

Contract No. SPW 12/2021 Shek Wu Hui Effluent Polishing Plant – Main Works Monthly EM&A Report (December 2021)

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

DECEMBER 2021

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Contract No. SPW 12/2021

Shek Wu Hui Effluent Polishing Plant – Main Work

Monthly Environmental Monitoring & Audit Report

December 2021

(January 2022)

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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report December 2021 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 4th 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 01 December 2021 to 31 December 2021. 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 –</u> <u>Civil Works for Sludge Treatment Facilities and 132 kV Primary Substation</u>

- RC works
- Excavation works
- Sewerage and drainage works
- ELS works
- Backfilling
- ABWF works

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

- ELS works
- R.C. Structure works
- Pre-bored H piles
- Demolition works
- Excavation
- E&M installation and T&C works

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

- ELS (Sidestream Treatment Facilities)
- Installation of EOT at UV
- AFA and MFA System Installation
- Penstock and Stoplog Installation
- Effluent Pump Installation
- UV System Installation
- Electrical Installation for UV System No.1 Effluent TPS & Effluent Lift-up PS



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

- Testing and Commission of Temporary Filtrate Equalisation Tank.
- Testing and Commission of Existing Primary Sedimentation Tank No. 4 & 6.
- Testing and Commission of 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 one noise monitoring station 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. No action or limit level exceedance was recorded in this reporting period

Site Inspections and Audit

 ix. The Environmental Team (ET) conducted weekly site inspections on 6, 7, 14, 15, 21 and 28 December 2021 and biweekly landscape inspection on 14 (DE/2018/03 & DE/2018/04), 15 (DC/2018/06 & DC/2018/07) and 28 December 2021. IEC attended the joint site inspection on 28 December 2021. No non-compliance was found during the site inspection while reminders on environmental measures were recommended.

Complaints, Notifications of Summons and Successful Prosecutions

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



Reporting Changes

xi. There are no particular reporting changes.

Future Key Issues

xii. 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 –</u> <u>Civil Works for Sludge Treatment Facilities and 132 kV Primary Substation</u>

- RC works
- Excavation works
- Sewerage and drainage works
- ELS works
- Backfilling
- ABWF works

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

- ELS works
- R.C. Structure works
- Pre-bored H piles
- Demolition works
- Excavation
- E&M installation and T&C works

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

- ELS (Sidestream Treatment Facilities)
- Installation of EOT at UVP
- AFA and MFA System Installation
- Penstock and Stoplog Installation
- Effluent Pump Installation
- UV System Installation
- Delivery and Installation of Temporary Container LV Switch Room for UV and Effluent Pumping Station
- Electrical Installation for UV System No.1 Effluent TPS & Effluent Lift-up PS



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

- Testing and Commission of Temporary Filtrate Equalisation Tank.
- Testing and Commission of Temporary Primary Sludge Thickener and its accessories .



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 8Complaints, 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 *Figure 2.2.* Key personnel and contact particulars are summarized in *Table 2.1*.



Party	Role	Post	Name	Contact No.
Drainage Services Department (DSD)	Permit Holder	Engineer	Ms. Konica Cheung	2594 7463
AECOM	Supervisor Representative	Resident Engineer	Ms. Bianca Choi	3907 6141
	Contractor	Environmental Engineer	Ms. Ruby Hui	6218 6408
Kwan Lee - Chun Wo Joint Venture	(DC/2018/06)	Assistant Environmental Engineer	Mr. Eric Chan	6432 2581
	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)	Mr. W.K. Chiu	2859 5881
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939

2.3 Construction Activities

2.3.1 In the reporting month, the principal work activities conducted of individual contracts are as follow. The layout plans showing the locations of reported construction activities and key PME used for the works contracts are provided in <u>Appendix 2.1</u>.

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

- RC works
- Excavation works
- Sewerage and drainage works
- ELS works
- Backfilling



ABWF works

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

- ELS works
- R.C. Structure works
- Pre-bored H piles
- Demolition works
- Excavation
- E&M installation and T&C works

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

- ELS (Sidestream Treatment Facilities)
- Installation of EOT at UV
- AFA and MFA System Installation
- Penstock and Stoplog Installation
- Effluent Pump Installation
- UV System Installation
- Electrical Installation for UV System No.1 Effluent TPS & Effluent Lift-up PS

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

- Testing and Commission of Temporary Filtrate Equalisation Tank.
- Testing and Commission of Existing Primary Sedimentation Tank No. 4 & 6.
- Testing and Commission of Temporary Primary Sludge Thickener and its accessories



2.3.2 The number of key PME and their working locations are shown in <u>Table 2.2</u>.

Table 2.2	Summary of key PME and working locations of works contracts
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Works Contract	Key PME	Number	Working locations
	Excavator	7	CHP, Boundary wall & Fence wall near UV No.1, Trench Zone A, San Wan Road
	Mobile crane	2	SDB, SD
DC/2018/06	Tower Crane	2	Near Workshop No.2 & Gate 2
	Mobile generator	1	Near Workshop No.2
	Roller	1	Fence wall near UV No.1
	Drilling rig	2	PST and Inlet
DC/2018/07	Excavator	23	MFB, BR2, Inlet and SAS
	Generator	5	BR2 and MFB
	Air compressor	4	PST & inlet
	Mobile Crane	2	PST & inlet
	Generator	1	UV No.1
DE/2018/03	Excavator	2	Sidestream
	Hydraulic Sheet Pile Driver Excavator	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 –</u> <u>Civil Works for Sludge Treatment Facilities and 132 kV Primary Substation</u>

- RC works
- Excavation works
- Sewerage and drainage works
- ELS works



- Backfilling
- ABWF works

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

- ELS works
- R.C. Structure works
- Pre-bored H piles
- Sheetpile Installation
- Demolition works
- Excavation
- E&M installation and T&C works
- ABWF works & BS works

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

- ELS (Sidestream Treatment Facilities)
- Installation of EOT at UVP
- AFA and MFA System Installation
- Penstock and Stoplog Installation
- Effluent Pump Installation
- UV System Installation
- Delivery and Installation of Temporary Container LV Switch Room for UV and Effluent Pumping Station
- Electrical Installation for UV System No.1 Effluent TPS & Effluent Lift-up PS

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

- Testing and Commission of Temporary Filtrate Equalisation Tank.
- Testing and Commission of Temporary Primary Sludge Thickener and its accessories



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
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
Environmental Permit	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Water Pollution Ordinance Licence	WT00035431-2019 (Portion C)	27 Jul 2020	31 Jan 2025	Valid
	WT00035718-2020 (Portion A)	02 Apr 2020	30 Apr 2025	Valid
Billing Account for Disposal of Construction Waste	7035390	11 Oct 2019	N/A	Valid
Registration as a Chemical Waste Producer	5213-624-K3371-01	14 Nov 2019	N/A	Valid
Construction Noise Permit	GW-RN0610-21	01 Sep 2021	28 Feb 2022	Valid
	GW-RN0734-21	05 Oct 2021	31 Mar 2022	Valid

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

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	449210	23 Sep 2019	N/A	Valid
Environmental Permit	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Water Pollution Ordinance Licence	WT00035727-2020	01 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
Construction Noise Permit	GW-RN0432-21	12 Jul 2021	11 Jan 2022	Valid
Admission Ticket for Special Waste	16527	12 Oct 2021	16 Feb 2022	Valid



Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
	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
Environmental Permit	FEP-02/474/2013	15 Feb 2018	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-RN0484-21	6 Jul 2021	27 Jan 2022	Valid

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

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

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	460181	17/09/2020	N/A	Valid
Environmental Permit	FEP-02/474/2013	15 Feb 2018	N/A	Valid
Billing Account for Disposal of Construction Waste	703621912	02 Jan 2020	N/A	Valid
Registration as a Chemical Waste Producer	5213-624-B2592-01	07 Jul 2020	N/A	Valid

3.1.2. Implementation status of the recommended mitigation measures during this report month is presented in <u>Appendix 3.1</u>.



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>.

EP Condition	5 Summary of Submission Status under FEP-0 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 and further comments by EPE 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	N/A
Condition 3.3	on 3.3 Baseline Monitoring Report (Ecology) The Report was first sub 2019, and verified on 22 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

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



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* <u>4.1. Appendix 4.1</u> 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
NM3	Man Kok Village

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

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

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

Table 4.2 Noise Monitoring Parameters, Frequency and Duration

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	LxT1	0004797
Acoustic Calibrator	HLES-02	2019612870

4.1.4. The calibration certificates of the noise monitoring equipment are attached in <u>Appendix 4.2.</u>

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.1.5. Monitoring Procedure
 - (a) Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s
 - (b) The monitoring station shall normally be at a point 1 m from the exterior of the sensitive receiver building facade and be at a position 1.2 m above the ground. If there is problem with access to the normal monitoring position, an alternative position may be chosen, and a correction to the measurements shall be made. For reference, a correction of +3 dB(A) shall be made to the free field measurements.
 - (c) The battery condition was checked to ensure the correct functioning of the meter.
 - (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Time measurement: Leq (30min) for noise monitoring
 - (e) Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
 - (f) The wind speed was checked with the portable wind meter before noise monitoring.
 - (g) At the end of the monitoring period, the Leq, L90 and L10 were recorded. In addition, site conditions and noise sources were recorded on a record sheet.

4.1.6. Maintenance and Calibration

- (a) The microphone head of the sound level and calibrator would be cleaned with soft cloth regularly.
- (B) The noise monitoring equipment shall be calibrated annually.



CONSTRUCTION NOISE LEVEL

4.1.7. The construction noise level refers the corrected noise level based on the calculated difference between SPL of the Measured Noise Level and the SPL of the Baseline Noise Level. In the event of the Baseline Noise Level exceeds the Measured Noise Level, no correction would be applied and the Construction Noise Level would be indicated as below baseline noise level (<BL).</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 <u>Appendix 4.1</u>. Should non-compliance of the criteria occurs, action in accordance with the Event and Action Plan in <u>Appendix 6.1</u> 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
AMS1	House No. 15, Wai Loi Tsuen	1-hour TSP
AMS2	Fu Tei Au	1-hour TSP
AM1a	Site boundary of the Shek Wu Hui STW (East)	24-hour TSP
AM2a	Site boundary of the Shek Wu Hui STW (North)	24-hour TSP

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 m3 per minute adjustable flow range
 - (b) Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - (c) Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - (d) Capable of providing a minimum exposed area of 406 cm2;
 - (e) Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - (f) Equipped with a shelter to protect the filter and sampler;
 - (g) Incorporated with an electronic mass flow rate controller or other equivalent devices;
 - (h) Equipped with a flow recorder for continuous monitoring;
 - (i) Provided with a peaked roof inlet;
 - (j) Incorporated with a manometer;
 - (k) Able to hold and seal the filter paper to the sampler housing at horizontal position;
 - (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	Monitorina	Equipment

Equipment	Brand and model	Series Number
		R22586
Portable direct	Met One BT- 645 / Met One	Y23153
reading dust meter	831	Y23160
		X19299
	Tisch Total Suspended	HVS001 (Serial number: 0401-
High Volume	Particulate Mass Flow	1105)
Sampler	Controlled High Volume Air	HVS003 (Serial number: 1096-
	Sampler TE-5025A	2305)
Wind Anemometer	YiGu	YGY-FSXY1

4.2.9. The calibration certificates of the air quality monitoring equipment are attached in <u>Appendix</u> <u>4.2.</u>

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 <u>Appendix 4.1</u>. 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.



Parameter	Monitoring Station	Action Level (µgm ⁻³)	Limit Level (µgm ⁻ ³)	
24-hour TSP Level	Site boundary of the Shek Wu Hui STW (East)	189	260.0	
	Site boundary of the Shek Wu Hui STW (North)	187		
1-hour TSP Level	House No. 15, Wai Loi Tsuen	320	500.0	
	Fu Tei Au	322	000.0	



4.3. Ecological Monitoring

- 4.3.8. 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.
- 4.3.9. The monitoring should be conducted by the ET and supervised by a qualified ecologist who will be a member of the ET.

MONITORING LOCATIONS

4.3.10. 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>.

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

Table 4.8 Ecological Monitoring Stations



Point Count Location P6	At Shek Sheung River	Yes
Point Count Location P7	At Intersection between Sheung Yue River and Shek Sheung River	Yes

MONITORING PARAMETERS, FREQUENCY AND DURATION

4.3.11. 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 <u>Appendix 5.1</u>.

MONITORING METHODOLOGY

- 4.3.12. 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.
- 4.3.13. 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.
- 4.3.14. 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).
- 4.3.15. 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

4.3.16. 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	牛背鷖

- 4.3.17. 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.
- 4.3.18. 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



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 4.3* respectively.
- 5.0.2 The environment monitoring schedules for reporting month and coming month are presented in <u>Appendix 5.1</u>.

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 can be referred in <u>Appendix</u> <u>5.2</u>.
- 5.1.2 No action or limit level exceedance was recorded in this reporting month.

5.2 Air 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 <u>Appendix 5.3.</u>
- 5.2.2 No action or limit level exceedance was recorded in this reporting month.

5.3 Ecology Monitoring Results

- 5.3.1 Details of ecological Monitoring results in the reporting month are provided in <u>Appendix 5.4.</u>
- 5.3.2 No Action Level and Limit Level was triggered for ecological monitoring in the reporting month.
- 5.3.3 Site observation in the reporting month shows that construction activities are similar to previous months. However, moderate to High level of Construction noises from the Project Site were recorded during the monitoring. Although no Action Level and Limit Level was triggered, mitigation measures such as noise barrier in green and hoarding in green around the construction site near Sheung Yue River was recommended.
- 5.3.4 The monitoring work will continue next month to evaluate any construction impact on waterbirds .



5.4 Waste Management

5.4.1 The quantities of waste for disposal in the Reporting Period are summarized in *Table 5.1* to *5.4*. The Monthly Summary Waste Flow Table is shown in <u>Appendix 5.7</u>. Whenever possible, materials were reused on-site as far as practicable.

Table 5.1 Summary of Quantities of Inert C&D Materials and C&D Wastes for ContractNo. DC/2018/06

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2021)
Hard Rock and Large Broken Concrete (Inert) (in '000m ³)	0	0	0
Reused in this Contract (Inert) (in '000m³)	0	0	0.263
Reused in other Projects (Inert) (in '000m³)	0	0	13.317
Disposal as Public Fill (Inert) (in '000m³)	0.685	1.612	9.809
Metals (in '000kg)	0	0	10.334
Paper / Cardboard Packing (in '000kg)	0.009	0.007	0.038
Plastics (in '000kg)	0	0	0.049
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000m³)	0.116	0.132	0.751



Table 5.2 Summary of Quantities of Inert C&D Materials and C&D Wastes for Contract
No. DC/2018/07

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2021)
Hard Rock and Large Broken Concrete (Inert) (in '000m³)	0	0	0
Reused in this Contract (Inert) (in '000m³)	0	0	0
Reused in other Projects (Inert) (in '000m³)	1.738	0.410	2.779
Disposal as Public Fill (Inert) (in '000m³)	3.105	3.175	24.564
Metals (in '000kg)	1.51	0	127.64
Paper / Cardboard Packing (in '000kg)	0.002	0.006	0.031
Plastics (in '000kg)	0	0	0.052
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000m³)	0.006	0.014	0.133

Table 5.3 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 (2021)
Hard Rock and Large Broken Concrete (Inert) (in '000kg)	0	0	0
Reused in this Contract (Inert) (in '000kg)	0	0	0
Reused in other Projects (Inert) (in '000kg)	0	0	0



Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2021)
Disposal as Public Fill (Inert) (in '000kg)	98.65	93.19	1249.16
Metals (in '000kg)	16.4	0	16.4
Paper / Cardboard Packing (in '000kg)	0.11	0	0.351
Plastics (in '000kg)	0.005	0	0.012
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	0	6.1	12.23

Table 5.4 Summary of Quantities of Inert C&D Materials and C&D Wastes for ContractNo. DE/2018/04

Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2021)
Hard Rock and Large Broken Concrete (Inert) (in '000kg)	0	0	0
Reused in this Contract (Inert) (in '000kg)	0	0	100
Reused in other Projects (Inert) (in '000m³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	0	0	322.36
Metals (in '000kg)	0	0	0
Paper / Cardboard Packing (in '000kg)	0	0	0
Plastics (in '000kg)	0	0	0



Waste Type	Quantity (Previous month)	Quantity (Reporting month)	Annual Cumulative Quantity (2021)
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	3.06	0	21.62



6 Compliance Audit

- 6.1.1 The Event Action Plan for construction noise, air quality and ecological monitoring are presented in <u>Appendix 6.1.</u>
- 6.1.2 The summary of exceedance is presented in <u>Appendix 6.2.</u>

6.2 Noise Monitoring

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

6.3 Air Quality Monitoring

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

6.4 Ecological Monitoring

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

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

- 7.0.1. Within this reporting month, weekly environmental site audits were conducted on 6, 7, 14, 15, 21 and 28 December 2021. Biweekly landscape site audits were conducted on 14 (DE/2018/03 & DE/2018/04), 15 (DC/2018/06 & DC/2018/07) and 28 December 2021.. IEC attended the joint site inspection on 28 December 2021.
- 7.0.2. No non-compliance was found during the environmental site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting month are listed below in *Table 7.1 to 7.4*.

Table 7 1 Summar	y of Environmental	Inspections (of Contract No	DC/2018/06
	y or Environmentar	mapecuona (or contract No.	DC/2010/00

ltem	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
20211206_1	6 Dec 2021	The Contractor (DC/2018/06) was requested to provide and extend the solid dull green barrier fences with 2m next to Ng Tung River under EP condition 2.7.	In progress	Keep in review next month

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

ltem	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
20211215_2	15 Dec 2021	The Contractor (DC/2018/07) was reminded to implement proper dust mitigation measures for the uncovered stockpile.	As observed on 21 Dec 2021, the stockpile issue was mitigated.	Rectified
20211215_3	15 Dec 2021	The Contractor (DC/2018/07) was requested to provide 2m solid dull green barrier fences next to Shek Sheung River.	As observed on 7 Jan 2022, the barrier fences issue was rectified.	Rectified
20211221_2	21 Dec 2021	The Contractor (DC/2018/07) was reminded to prevent muddy surface runoff entering the public drainage system by adopting measures like providing sandbags.	As observed on 28 Dec 2021, surface runoff issue was mitigated.	Rectified



Item	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
20211214_2	14 Dec 2021	The Contractor (DE/2018/03) was requested to provide 2m solid dull green barrier fences at the project site next to Shek Sheung River.	As observed on 4 Jan 2022, the barrier fences issue was rectified.	Rectified
20211214_2	21 Dec 2021	The contractor was reminded to provide acoustic material for the operating breaking tip	As observed on 4 Jan 2022, acoustic canvas was provided.	Rectified

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

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

- 7.0.3. With reference to the EP condition 2.7, erection of 2m solid dull green site barrier fences around active work sites is needed to minimize ecological impacts. The updated details and conditions of site barrier is presented in <u>Appendix 7.1</u>.
- 7.0.4. Dust and noise mitigation measures for construction activities is shown in <u>Appendix 7.2</u>.



8. Complaints, Notification of Summons and Prosecution

- 8.0.1. No environmental complaint, notification of summons and successful prosecution regarding construction works was recorded in the reporting period.
- 8.0.2. The details environmental complaints for the Project are summarized by complaint log in *Appendix 8.1.*
- 8.0.3. 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	3
December 2021	0
Total	3

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

- 9.0.1. 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.
- 9.0.2. 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.
- 9.0.3. 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 <u>Appendix 9.1</u>.

Table 9.1 Construction Activities and Recommended Mitigation Measures in ComingReporting 3 Months

Contract No.	Key Construction Works	Recommended Mitigation Measures
DC/2018/06	 RC works Excavation works Sewerage and drainage works ELS works Backfilling ABWF works 	 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 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
DC/2018/07	ELS works	Implement proper dust mitigation measures



Contract No.	Key Construction Works	Recommended Mitigation Measures
	 R.C. Structure works Pre-bored H piles Sheetpile Installation Demolition works Excavation E&M installation and T&C works ABWF works & BS works 	 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 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
DE/2018/03	 ELS (Sidestream Treatment Facilities) Installation of EOT at UV AFA and MFA System Installation Penstock and Stoplog Installation Effluent Pump Installation UV System Installation Electrical Installation for UV System No.1 Effluent TPS & Effluent Lift-up PS 	 Implement proper dust mitigation measures on dusty surface and stockpiles Implement proper noise mitigation measures to prevent potential noise nuisances to nearby sensitive receivers, especially screening noise during piling related activities 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
DE/2018/04	Testing and Commission	Good site practices should be adopted to



Contract No.	Key Construction Works	Recommended Mitigation Measures
	of Temporary Filtrate Equalisation Tank. • Testing and Commission of Existing Primary Sedimentation Tank No. 4 & 6. • Testing and Commission of Temporary Primary Sludge Thickener and its accessories	 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

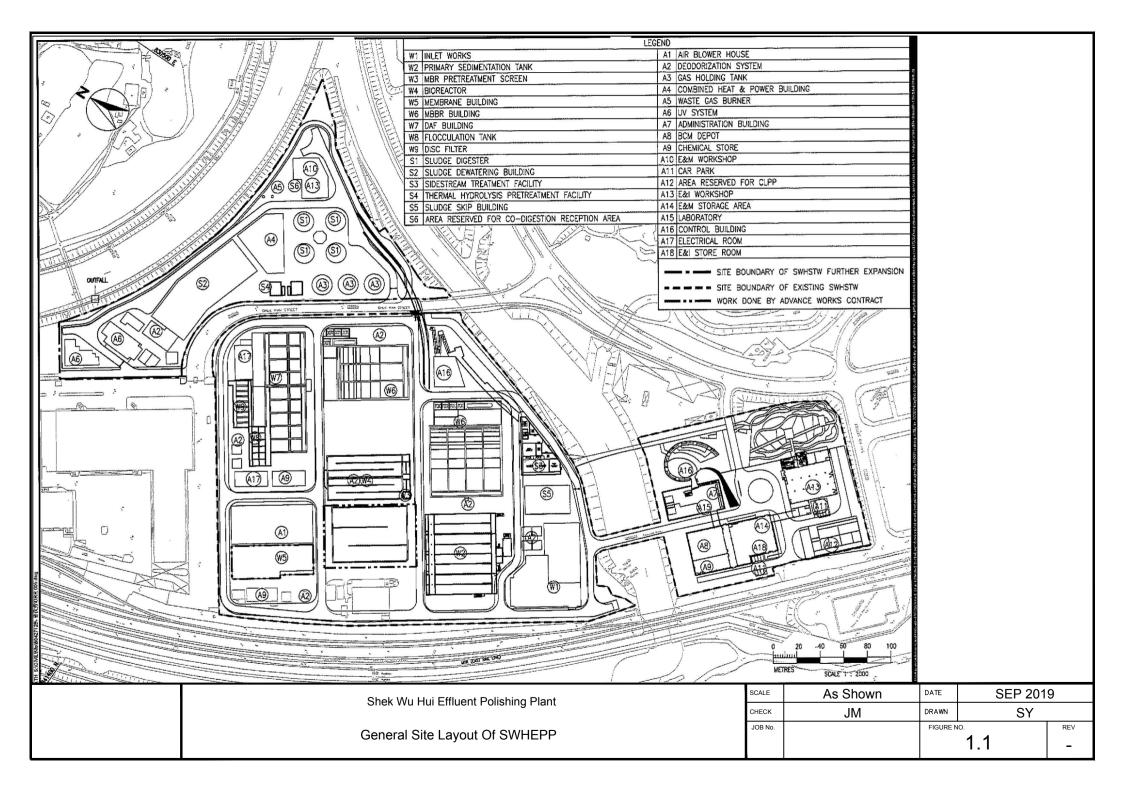




Figure 2.2

Project Organization Chart

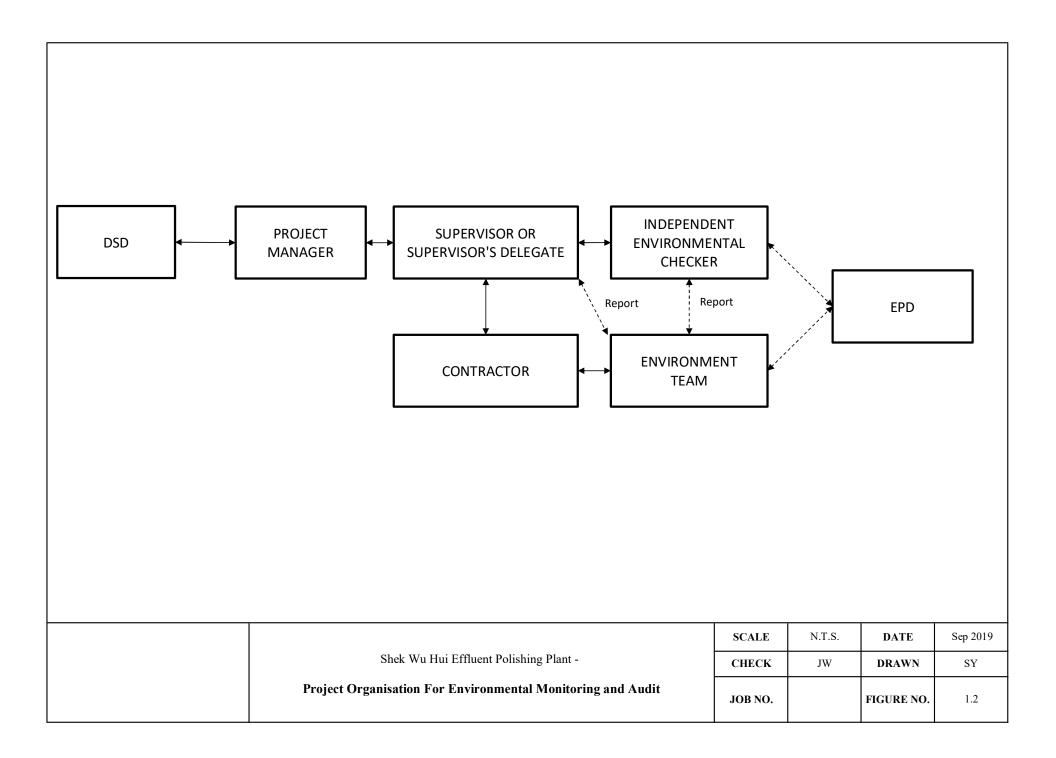




Figure 4.1

Locations of Noise Monitoring Stations

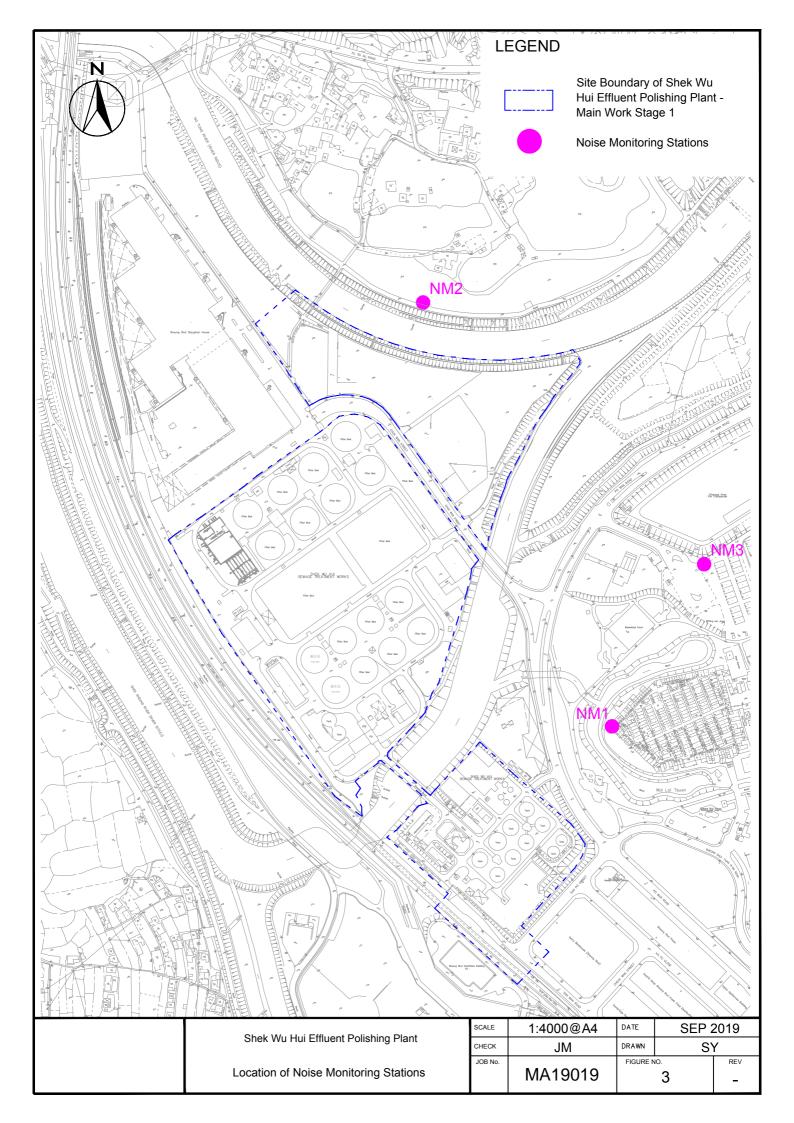




Figure 4.2

Locations of Air Quality Monitoring Stations

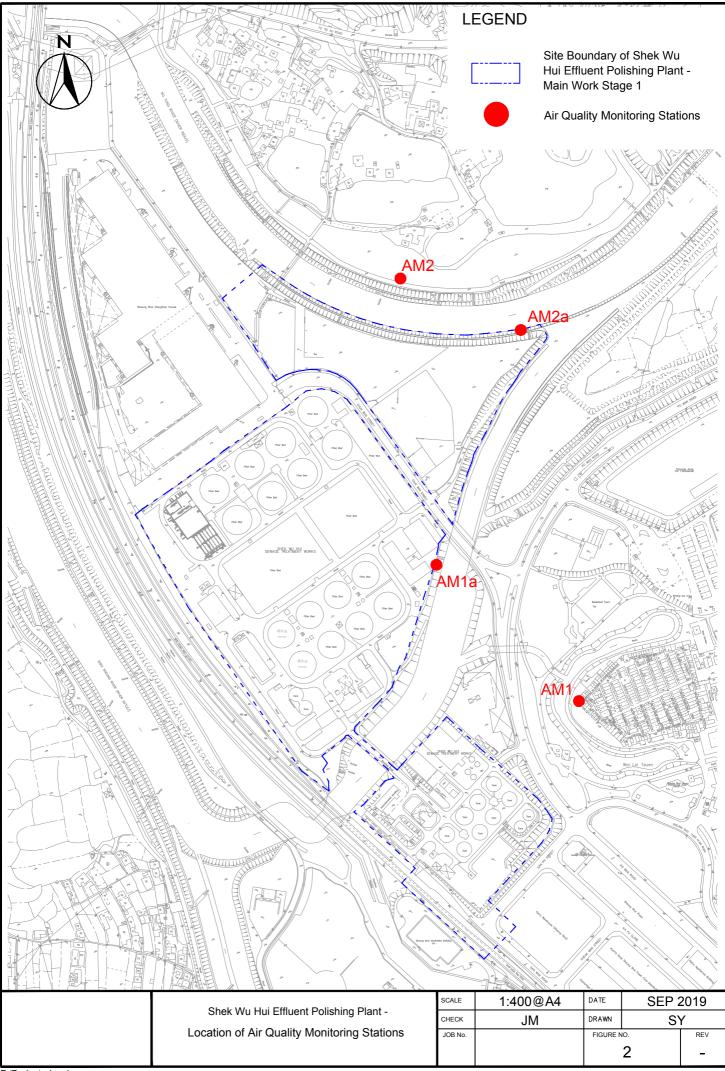
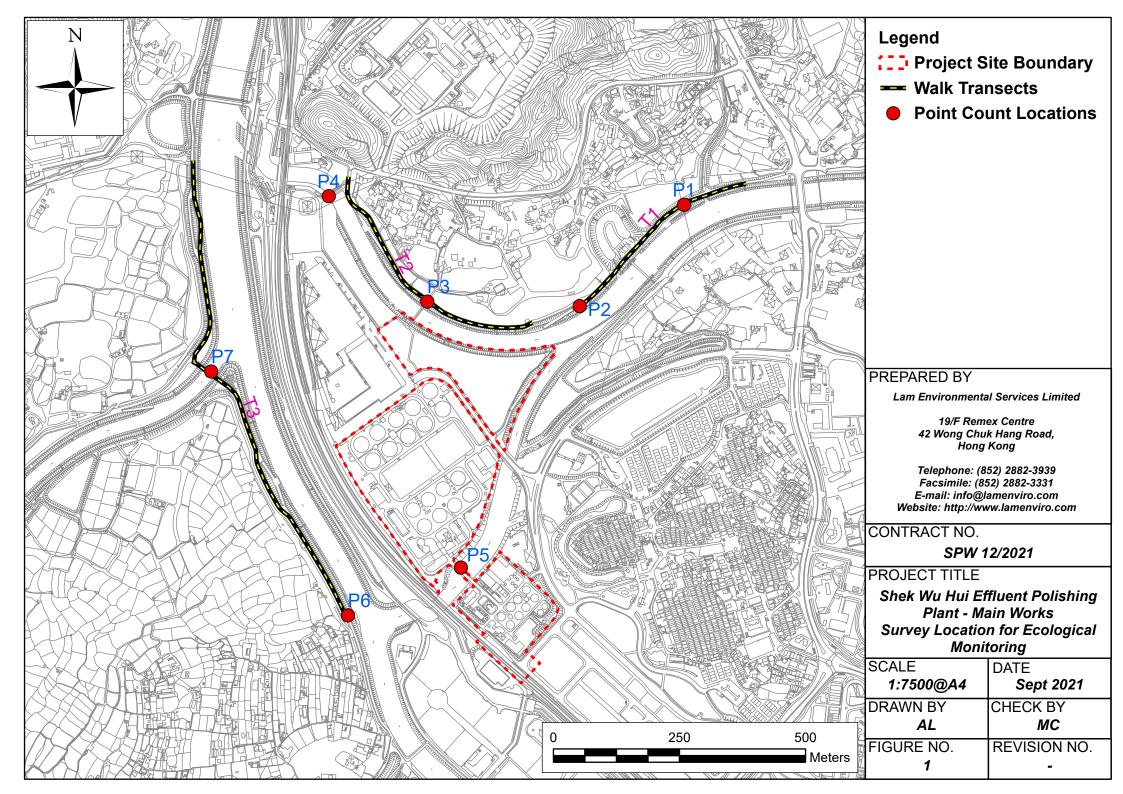




Figure 4.3

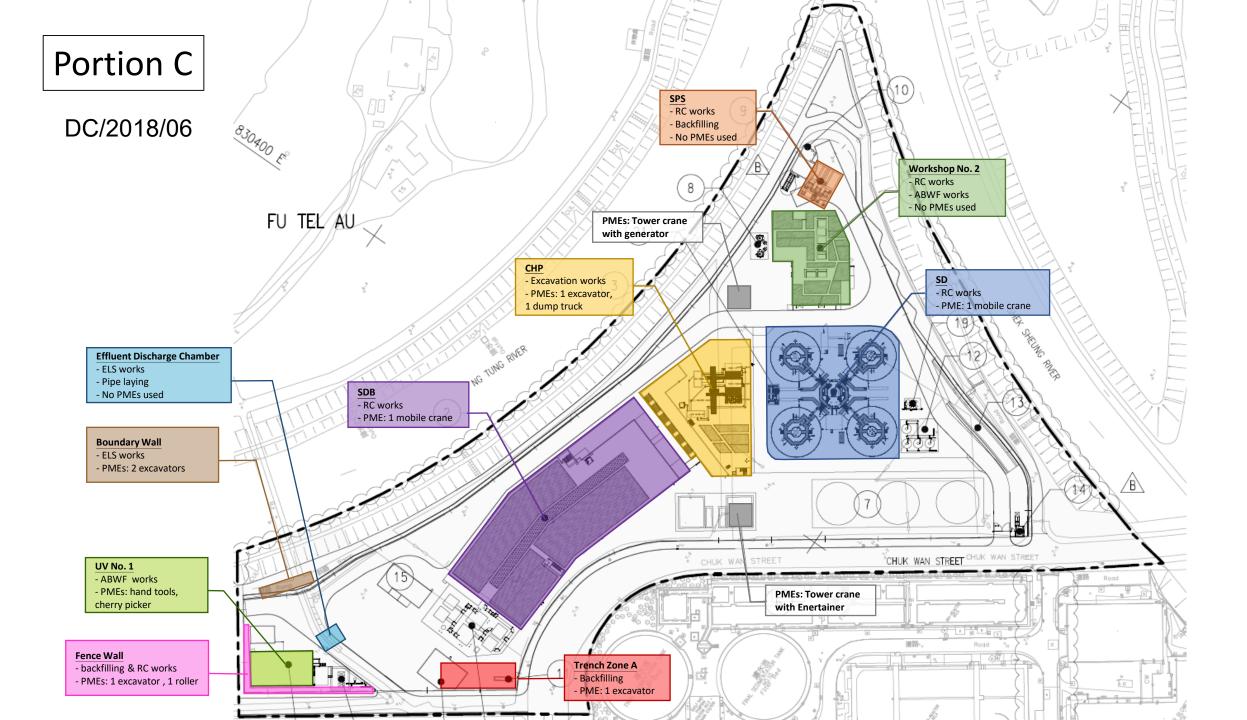
Locations of Ecological Monitoring Stations

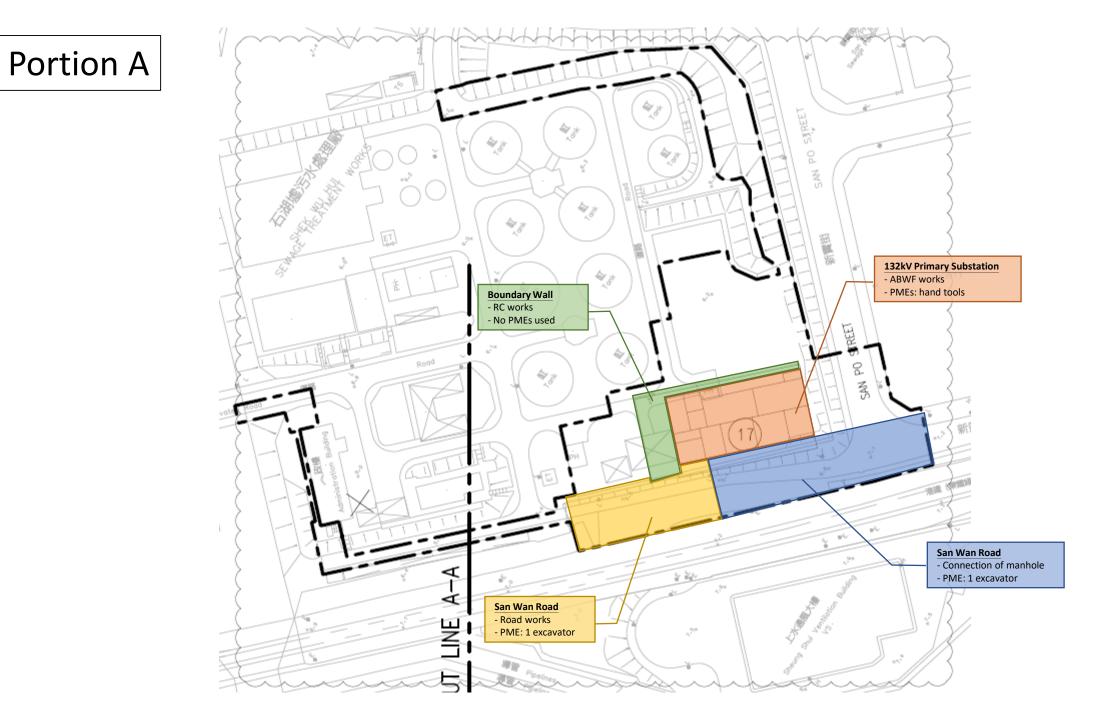




Appendix 2.1

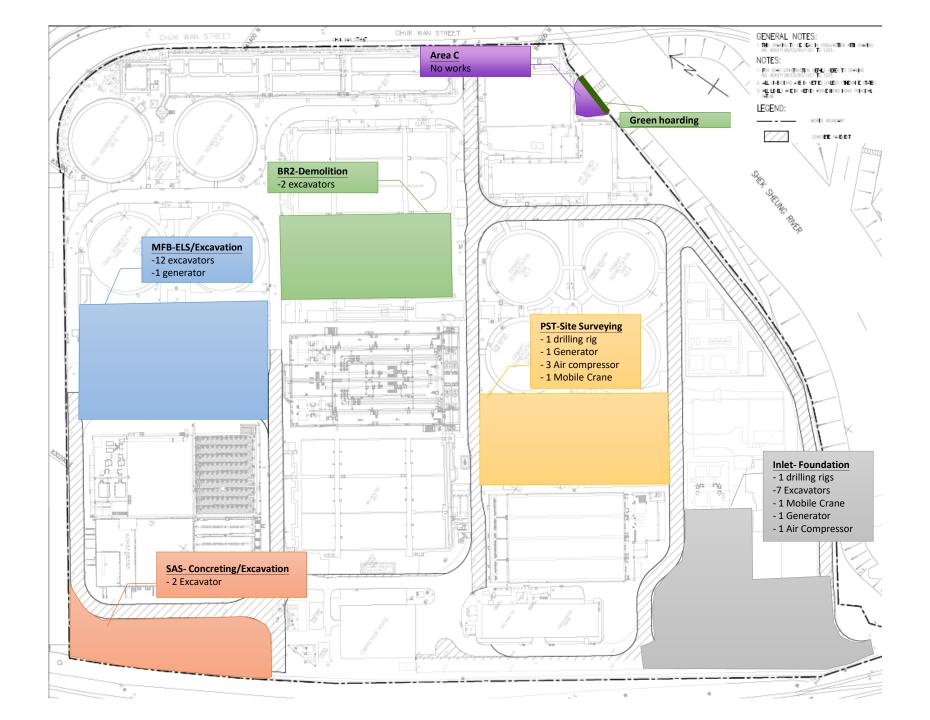
Layout plan of construction activities

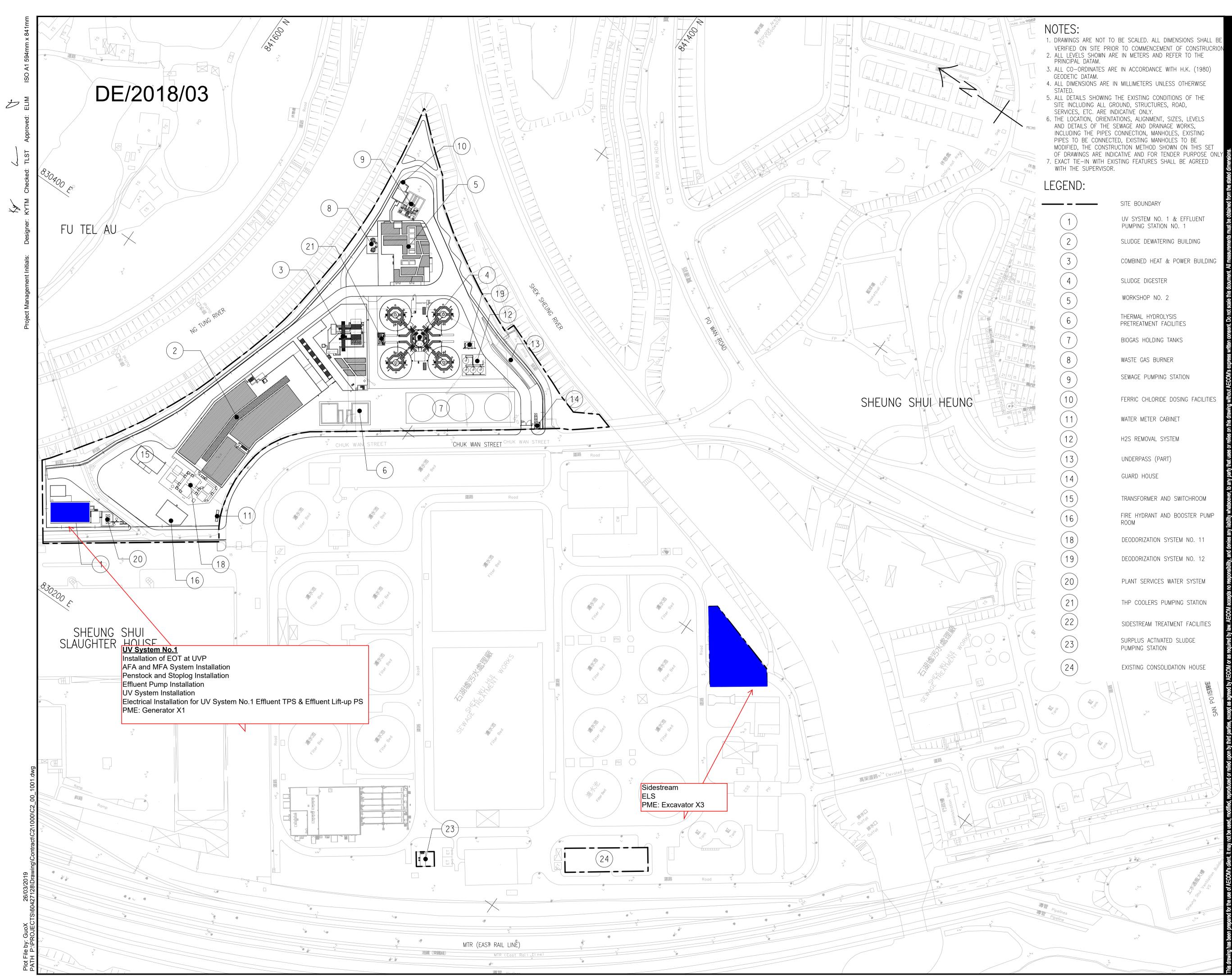




Portion B

DC/2018/07







PROJECT ^{項目}

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE

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

CLIENT 業主



楽 務 署 Drainage Services Department

CONSULTANT 工程顧問公司

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ISSUE/REVISION 修訂

ST.	ATUS		
 /R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	MAR. 19	TENDER DRAWING	TLST
			6

階段

SCALE 比例

DIMENSION UNIT _{尺寸單位}

A1 1:1000

METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號

CONTRACT NO. 合約編號

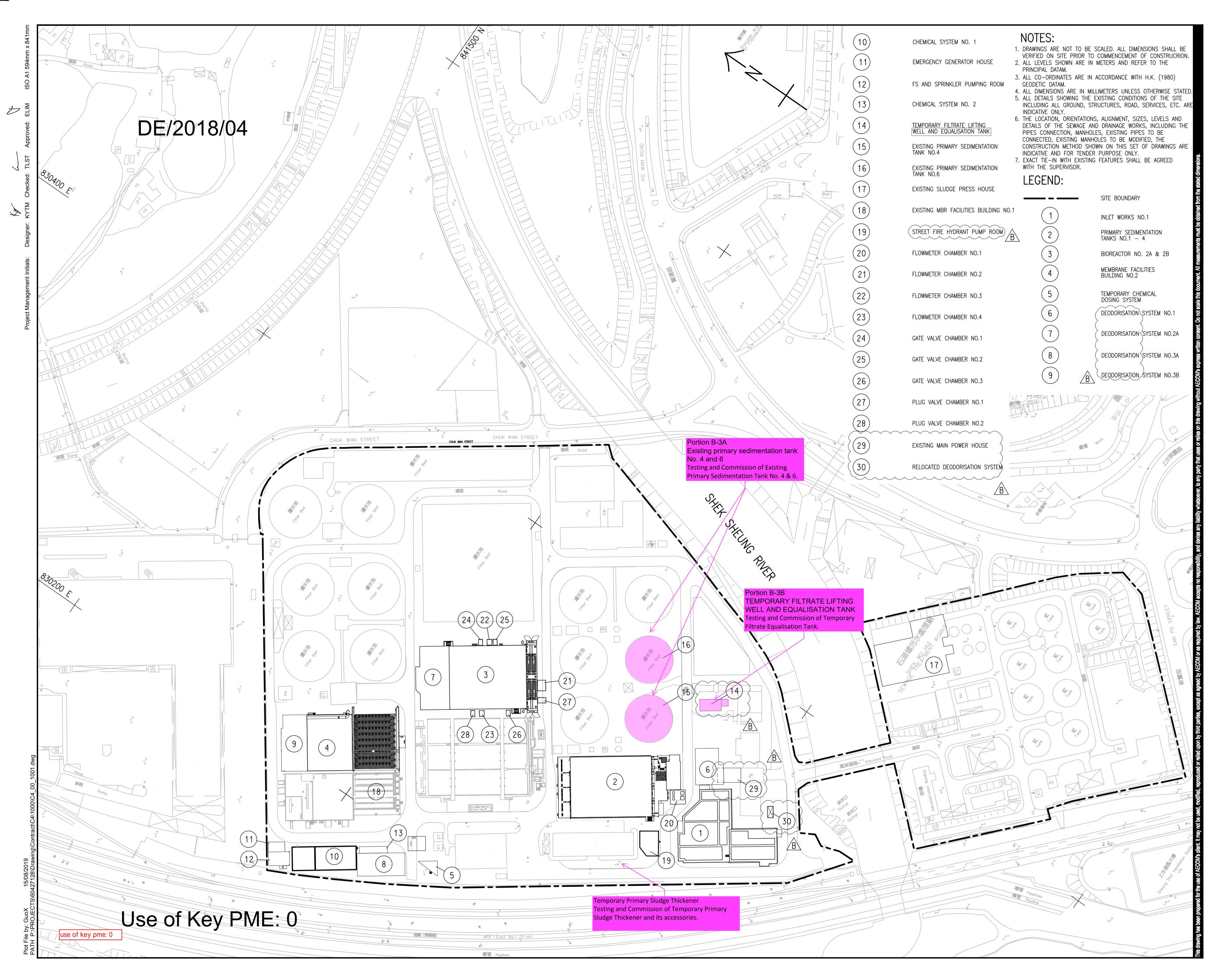
60427128

DE/2018/03

SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

SHEET NUMBER 圓紙編號

60427128/C2/00/1001





PROJECT _{項目}

SHEK WU HUI EFFLUENT POLISHING PLANT

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

CLIENT 業主



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ISSUE/REVISION ^{依訂}

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/R 修訂	DATE 日期	DESCRIPTION 內容積要	CHK. 複核
-	APR. 19	TENDER DRAWING	TLST
Α	JUL. 19	TENDER ADDENDUM NO. 2	TLST
В	AUG. 19	TENDER ADDENDUM NO. 3	TLST
			6

STATUS ^{階段}

SCALE	DIMENSION UNIT
比例	尺寸單位
A1 1:1000	METRES

KEY PLAN 索引画

PROJECT NO. 項目編號

CONTRACT NO. ^{合約編號}

60427128

DE/2018/04

SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

SHEET NUMBER 國紙編號

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	<u>y</u> 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	^
	• Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;					(Construction Dust)	^
	 A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones; 						٨
	• 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;						٨
	• Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;						

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.						٨
	 The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; 						^
	 Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; 						^
	 Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; 						^
	• Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;						٨
	Any skip hoist for material transport should be totally enclosed by impervious sheeting;						٨
	• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;						^
	• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;						^

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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark		
Noise 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/m ² 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)	٨		
S3.4.1.2	Good Site Practice:								
	 Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Silencers or mufflers on construction equipment should be the Project 	To minimize C construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, NCO	Λ *		
	 Mobile plant, if any, should be sited as far away from NSRs as possible. 						٨		
	 Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. 	-						^	
-	 Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 								
	 Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 						^		

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark	
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		EIAO-TM	^			
	• Proper locations well away from nearby water bodies should be used for temporary storage of materials (i.e. equipment, filling materials, chemicals and fuel) and temporary stockpiles of construction debris and spoil, and these should be identified before commencement of works;				Stage 2 and Stage 3		٨	
	• 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 treatment facilities well away from sensitive receivers should be identified; 						٨
	Adequate lateral support should be erected where necessary in order to prevent soil/mud from slipping into water bodies;						^
	• Site boundaries should be clearly marked and any works beyond the boundary strictly prohibited;						^
	• Regular water monitoring and site audit should be carried out at adequate points along any watercourses where construction works are underway upstream within their catchments and also on the Ng Tung, Sheung Yue and Shek Sheung Rivers. If the monitoring and audit results show that pollution occurs, adequate measures including temporarily cessation of works should be considered;						٨
	 Excavation profiles should be properly designed and executed with attention to the relevant requirements for environment, health and safety; 						٨
	Where soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; 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. 						^

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; 						٨
	 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.						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
Water Qua	ality Impact					4	- 1
S5.2.2.1	<u>Construction Site Runoff</u> 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	٨
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	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	EIAO-TM, WPCO, EIAO	^
	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measures						^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
	anagement						
S6.2.2.1	Good Site Practices and Waste Reduction Measures	1			1	1	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)	*
	 Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; 						٨
	 Provision of sufficient waste disposal points and regular collection for disposal; 						^
	 Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; 						^
	 Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 						٨
	 An Environmental Management Plan (EMP) should be prepared by the contractor and submitted to the Supervisor for approval. 						^
S6.2.3.1	Waste Reduction Measures						
	 Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	Reduce waste generation	Contractors	Work Sites	Prior to the commencement of construction	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		٨
	 Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; 				and Stage 3		٨
	• 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	Λ Λ Λ
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	Λ Λ Λ
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	Λ Λ Λ Λ
\$6.2.5.3	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. The use of wooden hoardings shall not be allowed. An alternative material, such as metal, aluminium or alloy etc, could be used. Government has developed a charging policy for the disposal of waste to landfill at present. It will provide additional incentive to reduce the volume of generated waste and ensure proper segregation to allow reuse of the inert material on site when implemented. In order to minimize the impacts of the demolition works, the generated wastes must be cleared as quickly as possible after demolition. Therefore, the demolition and clearance works should be undertaken simultaneously. To facilitate proper segregation of inert and non-inert C&D material arising from demolition works, 	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	Λ Λ Λ	
	selective demolition method should be adopted.							
S6.2.5.4	Chemical Waste							
	 If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers. 	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3	Waste Disposal (Chemical Waste General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	^	
	Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.						*	
S6.2.5.5	General Refuse	1	1	1		1	1	

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	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	 Good Site Practices Measures For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. 	Minimize the impact to the landscape and visual	Contractor	Work Sites	Prior to construction and construction phase		N/A
	 With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites. 						N/A
\$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
\$7.3.2.1	 MM5 - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC No. 2/2004 and DEVB TC(W) No. 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to. 	Transplant Trees where suitable for transplantation	Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No.2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	N/A
S7.3.2.1	MM6 - Slope Landscaping		1		1	1	
	 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 	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	N/A N/A
S7.3.2.1	MM7 - Compensatory Planting	-				Guidelines o Landscape	

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.		Designer / Contractor	Work Sites where possible. Otherwise consider offsite locations	Prior to construction, construction phase and operation phase	DEVB TC(W) No. 7/2015 and ETWB TCW No. 2/2004	N/A
	• Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.						N/A
	• Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma</i> malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii are suggested.						N/A
S7.3.2.1	 MM9 - Vertical Greening Planting of climbers to grow up vertical surfaces were appropriate. 	Soften hard surfaces and facilities	Designer / Contractor	On appropriate structures	Prior to construction, construction phase and operation phase	ETWB TCW No.11/2004 – Cyber Manual for Greening	N/A
S7.3.2.1	 MM10 - Green Roof Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable. 	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to visually sensitive receivers (VSRs) at high levels. Provide greening	Designer / Contractor	On appropriate buildings	Prior to construction, construction phase and operation phase	CIBSE HK Branch, Technical Guidelines for Green Roof Systems in Hong Kong (2011); ArchSD/Urbis Study on Green Roof Application in HK (2007)	N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	When to implement the measures?	What requirements or standards for the measure to achieve	Remark
S7.3.2.1	 MM11 - Screen Planting Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting. 	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Designer / Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the structures.	Prior to construction, construction phase and operation phase	ETWB TCW No. 10/2013 and 3/2006	N/A
S7.3.2.1	 MM16 - Screen Hoarding Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment. [Chapter 13 of the EIA Report of NENT NDAs (Register No. AEIAR-175- 2013)] 	To screen undesirable views of the works site.	Designer	Work Sites	Construction phase		N/A
S7.3.2.1	 MM17 - Light Control Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase. 	To minimize glare impact to adjacent VSRs.	Designer / Contractor	Work Sites and/or the Plant	Construction phase and operation phase		N/A

Remarks: ^

Implemented To be followed-up by Contractor Not Implemented Not Applicable * #

N/A



Appendix 4.1

Action and Limit Level



Action and Limit Levels

Air Quality Monitoring

Monitoring	1-hour TSP L	evel 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.

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

Ecological Monitoring of Waterbirds using Ng Tung, Sheung Yue and Shek Sheung Rivers during Construction Phase

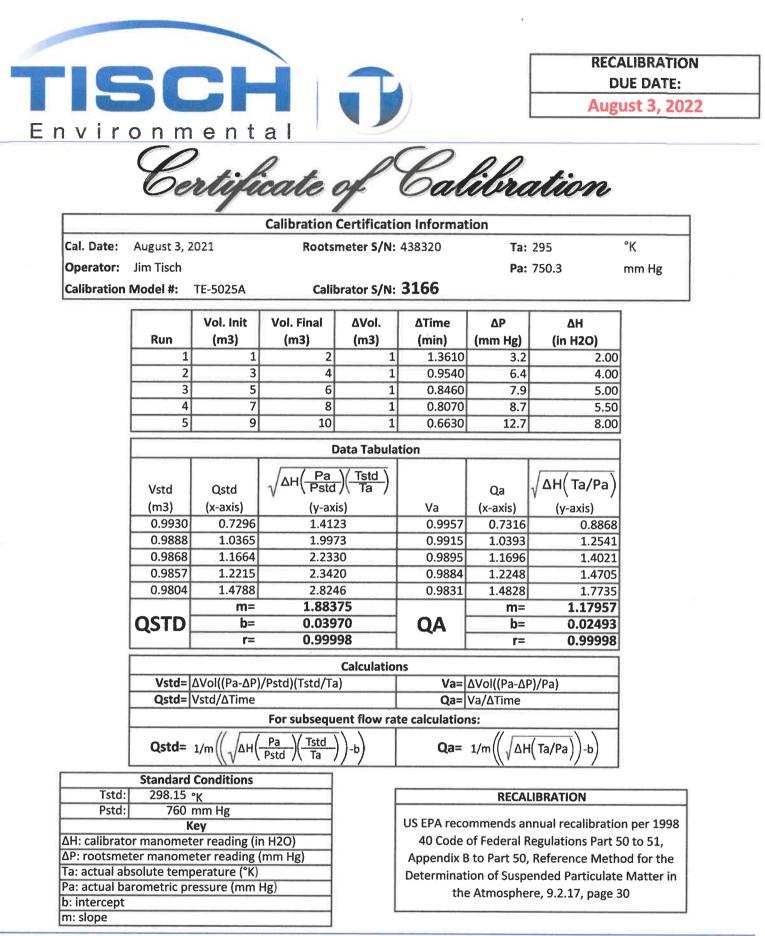
Action Level	Limit Level
Decline in numbers of all waterbird species	Decline in numbers of all waterbird species
relative to numbers during Baseline Monitoring	relative to numbers during Baseline Monitoring
such that Action Level response is triggered.	such that the Limit Level response is triggered.
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.



Appendix 4.2

Copies of Calibration Certificates



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

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



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AM1a	Calbration Date	:	30-Oct-21
Equipment no.	:	HVS001	Calbration Due Date	:	30-Dec-21

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition											
Temperature, T _a	erature, T _a 302				Kelvin Pressure, P a			1013	mmHg		
	Orifice Transfer Standard Information										
Equipment No.		3166		Slope, m _c	1.883	75	Intercept, bc	0.03	970		
Last Calibration Date		3-Aug-2	1		(Hx	(P _a / 10)13.3 x 298 /	'Τ _a) ^{1/2}			
Next Calibration Date		3-Aug-22	2		=	m _c z	$x Q_{std} + b_c$				
				Calibratio	on of TSP						
Calibration	Mar	nometer R	eading	(ຊ _{std}	Conti	nuous Flow	IC			
Point	H (i	inches of	water)	(m ³	/ min.)	Rec	corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31			
	(up)	(down)	(difference)	x	-axis		(CFM)	Y-axi	s		
1	1.3	1.3	2.6	0.	8291		22	21.850)6		
2	2.3	2.3	4.6	1.	1098		33	32.775	59		
3	3.6	3.6	7.2	1.	3937		43	42.708	30		
4	4.6	4.6	9.2	1.	5782		51	50.653	36		
5	5.8	5.8	11.6	1.	7747		58	57.606	31		
By Linear Regression of `	Y on X										
Slope, m = 37.84			3424 Intercept, b = -9.4792					_			
Correlation Coefficient* = 0.5			0.99	997	<u>-</u>				-		
Calibration	=	Yes/	No**	_							

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

** Delete as appropriate.

Remarks : Serial number: 0401-1105

Date

Dean Chan

30-Oct-21

Checked by

Date

Derek Lo

30-Oct-21



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AM2a	Calbration Date	:	30-Oct-21
Equipment no.	:	HVS003	Calbration Due Date	:	30-Dec-21

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition										
Temperature, T _a		302	2	Kelvin	Kelvin Pressure, P a			1013	mmHg	
Orifice Transfer Standard Information										
Equipment No.		3166		Slope, m _c	1.883	75	Intercept, bc	0.4	03970	
Last Calibration Date		3-Aug-2	1		(Hx	(P _a / 10	013.3 x 298 /	'T _a) ^{1/2}		
Next Calibration Date		3-Aug-22	2		=	m _c	$x Q_{std} + b_c$			
	Calibration of TSP									
Calibration	Mar	nometer R	eading	C	ຊ _{std}	Conti	nuous Flow	IC		
Point	Point H (inches		water)	(m ³	/ min.)	Red	corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31		
	(up)	(down)	(difference)	Χ.	-axis		(CFM)	Y-a	axis	
1	1.2	1.2	2.4	0.	7957		23	22.8	3438	
2	2.4	2.4	4.8	1.	1341		35	34.7	7623	
3	3.7	3.7	7.4	1.	4132		45	44.6	6944	
4	4.5	4.5	9.0	1.	5607		53	52.6	6400	
5	5.5	5.5	11.0	1.	7276		58	57.6061		
By Linear Regression of `	Y on X									
Slope, m = 37.9			0084 Intercept, b = -7.7671							
Correlation Co	pefficient*	=	0.99	¥79	_					
Calibration Accepted			Yes/	No**	_					

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

** Delete as appropriate.

Remarks : ______Serial number: 1096-2305

Dean Chan

30-Oct-21

Checked by

Date

Derek Lo

30-Oct-21

Date



Portable Dust Meter Performance Check Record

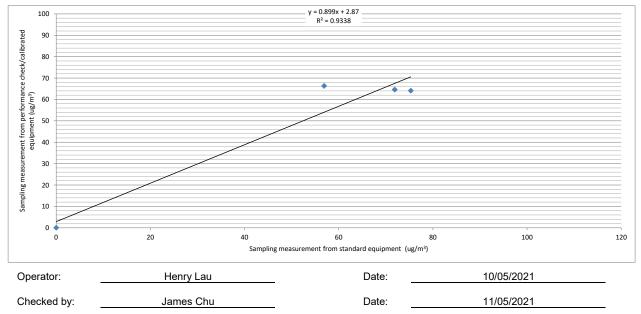
Portable Dust Meter		
Туре	:	Particulare Monitor
Manufacturer	:	MET ONE INSTRUMENTS
Model Number	:	BT-645
Serial Number	:	R22586
Performance Check Date	:	10-May-21
Standard Equipment		
Туре	:	High Volume Sampler
Manufacturer	:	TISCH
Model Number	:	TE-5170
Equipment Number	:	HVS018
Last Calibration Date	:	06-May-21

Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard equipment) (Y - Axis)	Concentration in ug/m ³ (Performance Check / Calibrated equipment) (X - Axis)
Zero Check	9/5/21 08:00	28	1009	0	0
1	10/5/21 08:05	28	1009	72	65
2	10/5/21 09:06	28	1009	75	64
3	10/5/21 10:07	28	1009	57	66

* Filter paper weighting was conducted by HOKLAS accredited laboratory.







Portable Dust Meter Performance Check Record

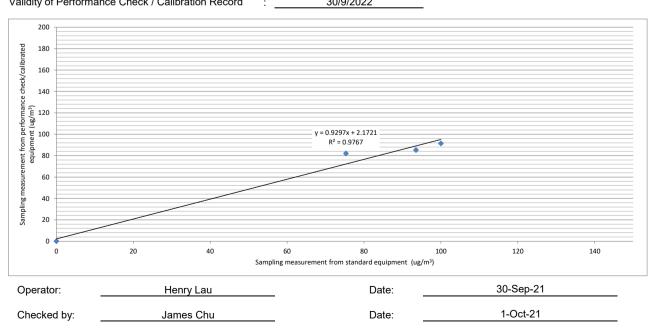
Portable Dust Meter	
Туре	: Particulare Monitor
Manufacturer	: Metone AEROCET 831
Model Number	:831
Serial Number	: <u>Y23153</u>
Performance Check Date	:30-Sep-21
Standard Equipment	
Туре	:High Volume Sampler
Manufacturer	:TISCH
Model Number	:TE-5170
Equipment Number	: HVS018
Last Calibration Date	:6-Sep-21

Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Pressure (hPa)	Mean Temp (°C)	Concentration in ug/m ³ (Standard equipment) (X - Axis)	Concentration in ug/m ³ (Performance Check / Calibrated equipment) (Y - Axis)
Zero Check	29/9/2021 08:00	1008	30	0	0
1	30/9/2021 09:26	1008	30	94	85
2	30/9/2021 10:27	1008	30	100	91
3	30/9/2021 11:28	1008	30	75	82

* Filter paper weighting was conducted by HOKLAS accredited laboratory.

Linear Regression of Y on X		
Slope (K- factor)	:	1.1000
Correlation Coefficient	:]	0.9883
Validity of Performance Check / Calibration Record	: -	30/9/2022





Portable Dust Meter Performance Check Record

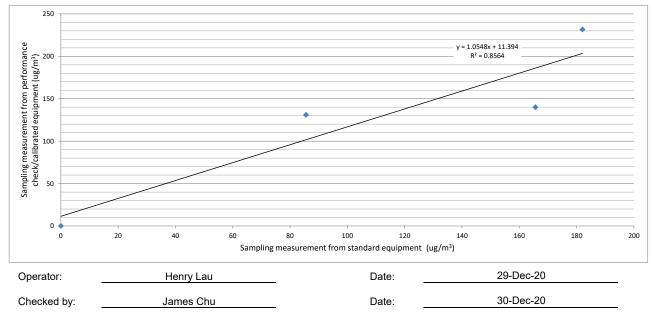
Portable Dust Meter			
Туре	: _	Particulare Monitor	
Manufacturer	: _	Metone AEROCET 831	
Model Number	: _	831	
Serial Number	: _	Y23160	
Performance Check Date	: _	29-Dec-20	
Standard Equipment			
Туре	: _	High Volume Sampler	
Manufacturer	: _	TISCH	
Model Number	: _	TE-5170	
Equipment Number	: _	HVS000	
Last Calibration Date	: _	28-Dec-20	

Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Pressure (hPa)	Mean Temp (°C)	Concentration in ug/m ³ (Standard equipment) (X - Axis)	Concentration in ug/m ³ (Performance Check / Calibrated equipment) (Y - Axis)
Zero Check	28/12/2020 08:00	0	0	0	0
1	29/12/2020 08:04	1015	21	182	232
2	29/12/2020 09:05	1015	21	166	140
3	29/12/2020 10:06	1015	21	86	131

* Filter paper weighting was conducted by HOKLAS accredited laboratory.







Portable Dust Meter Performance Check Record

Portable Dust Meter	
Туре	: Particulare Monitor
Manufacturer	: MET ONE INSTRUMENTS
Model Number	:BT-645
Serial Number	: X19299
Performance Check Date	:10-May-21
Standard Equipment	
Туре	: High Volume Sampler
Manufacturer	:TISCH
Model Number	: TE-5170
Equipment Number	: HVS018
Last Calibration Date	: 06-May-21

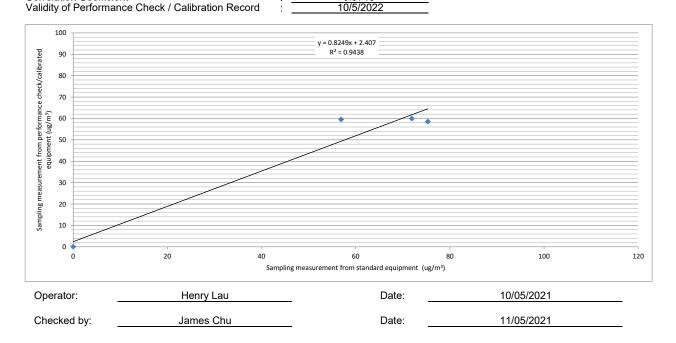
Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard equipment) (Y - Axis)	Concentration in ug/m ³ (Performance Check / Calibrated equipment) (X - Axis)
Zero Check	9/5/21 08:00	28	1009	0	0
1	10/5/21 08:05	28	1009	72	60
2	10/5/21 09:06	28	1009	75	59
3	10/5/21 10:07	28	1009	57	60

0.9715

* Filter paper weighting was conducted by HOKLAS accredited laboratory.

Linear Regression of Y on X Slope (K- factor) : Correlation Coefficient : Validity of Performance Check / Calibration Record :



出厂检验报告

产品名称: <u>在线式风速风向仪</u>
产品型号: <u>YGY-FSXY1</u>
被检产品 SN 号: <u>YG 21071630T0924</u>

武汉辰云科技有限公司

2021年8月9日

1. 检验类别

一、在线式风速风向仪

检验项目	检测要求	检测结果
外观检查	 要求成品外观无破损,各部件完整,无掉漆,无 凹陷变形; 采集仪内部无目视可见灰尘杂物油污,布局整洁 美观; 芯线,航插完整,保护皮无破损,无油污; 	
结构检查	 内部电路板固定牢固可靠,无挤压,无晃动; 检查防尘防水措施是否到位,密封是否严密,端 子与外壳缝隙不宜过大,以不透光为原则; 	

二、风速风向传感器示值校准结果

实际风速(m/s)	指示风速 (m/s)
0.5	启动
1	0.8
5	4.8
10	9.9
15	14.8
20	20.2
25	25.2
30	29.7

实际风向(°)	指示风向(°)
45	44
90	89
135	136
200	202
235	234
275	275
315	313
359	0

5

2. 备注 NOTE

数据采集仪数据显示风速、风向值正常,通过 RJ45 通讯与电脑连接, 仪器软件数据显示正常。

3. 检验结论:

各项检测和实验结果表明:

<u>在线式风速风向仪</u>仪器全部测试通过,系统硬件测试符合工厂 (武汉易谷科技有限公司检验标准)测试标准。符合技术文件的要求,检 验合格,准予出厂。

4. 校准的环境条件:

环境条件: 温度: 27.5, 相对湿度: 61.0%RH, 大气压力: 1013.3hpa

测试员: <u>李元华</u> 检验员: 吴肖



测试日期: 2021年8月9日





CERTIFICATE OF CALIBRATION

Certificate No.:	21CA0526 02-01		Page	1 o	f 2
Item tested					
Description:	Sound Level Mete	r (Type 1)	Microphone	Pre	amp
Manufacturer:	Larson Davis		PCB .	PCI	•
Type/Model No.:	LxT1		377B02	PRI	MLxT1L
Serial/Equipment No.:	0004797		163704	042	622
Adaptors used:	-		~	-	-
Item submitted by					
Customer Name:	Lam Environmenta	al Services Limited.			
Address of Customer:	-				
Request No.:	-				
Date of receipt:	26-May-2021				
Date of test:	07 May 2024				
Date of test:	27-May-2021				
Reference equipment	used in the calib	ration			
Description:	Model:	Serial No.	Expiry Date:	Tra	ceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2021	CIG	ISMEC
0	DS 360	61227	31-Dec-2021	CEF	PREI
Signal generator					
Ambient conditions					
Ambient conditions	22 ± 1 °C				
	22 ± 1 °C 55 ± 10 %				

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Feng lunai

28-May-2021 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.

Date:

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

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



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

21CA0526 02-01

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2

Page

1, Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
5	C	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	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0,3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

Response to associated sound calibrator

N/A

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

End Calibrated by: Checked by: Fung Chi Yip Chan Yuk Yiu Date: 27-May-2021 Date: 28-May-2021

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.CARP152-2/issue 1/Rev.C/01/02/2007

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Test Data for So	Test Data for Sound Level Meter					
Sound level me	eter type:	LxT1	Serial No.	0004797	Date	27-May-2021
Microphone	type:	377B02	Serial No.	163704		
Preamp	type:	PRMLxT1L	Serial No.	042622	Repor	t: 21CA0526 02-01

SELF GENERATED NOISE TEST

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

Noise level in A weighting	10.6	dB
Noise level in C weighting	14.8	dB
Noise level in Lin	22.3	dB

LINEARITY TEST

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

Reference/Expected level	Actua	llevel	Tolerance	Devia	tion
Thereferice/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	73.9	73.9	0.7	-0.1	-0.1
69.0	68.9	68.9	0.7	-0.1	-0.1
64.0	63.9	63.9	0.7	-0.1	-0.1
59.0	58.9	58.9	0.7	-0.1	-0.1
54.0	53.9	53.9	0.7	-0.1	-0.1
49.0	48.9	48.9	0.7	-0.1	-0.1
44.0	43.9	43.9	0.7	-0.1	-0.1
39.0	38.9	38.9	0.7	-0.1	-0.1
34.0	33.9	33.9	0.7	-0.1	-0.1
33.0	32.9	32.9	0.7	-0.1	-0.1

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Test Data for Sound Level Meter

Sound level me	ter type:	LxT1	Sei	rial No.	0004797	7 Date	e 27-May	-2021
Microphone Preamp	type: type:	377B02 PRMLxT1L					oort: 21CA05	26 02-01
32.0		31.9	31.9	0.7		-0.1	-0.1	
31.0		30.9	30.9	0.7		-0.1	-0.1	
30.0		29.9	29.9	0.7		-0.1	-0.1	

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

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	94.0	94.0	0.7	0.0

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

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	30.0	29.9	0.7	-0.1
20-120	118.0	118.0	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	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	54.6	54.5	1.5	1.5	-0.1
63.1	94.0	67.8	67.8	1.5	1.5	0.0
125.9	94.0	77.9	77.9	1.0	1.0	0.0
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	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	95.0	1.0	1.0	0.0
7943.0	94.0	92.9	92.9	1.5	3.0	0.0
12590.0	94.0	89.7	89.7	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Expected level Actual level		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	91.0	91.0	1.5	1.5	0.0	
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	94.0	1.0	1.0	0.0	
501.2	94.0	94.0	94.0	1.0	1.0	0.0	

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SMECLab

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Test Data for Sound Level Meter

Sound level me	ound level meter type: LxT1		ound level meter type: LxT1 Se		Serial No	. 000	04797	Date	27-May-2021
Microphone Preamp	type: type:	377B0 PRML		Serial No Serial No		163704 042622		: 21CA0526 02-0	
1995.0	94.0		93.8	93.8	1.0	1.0	0.0		
3981.0	94.0		93.2	93.2	1.0	1.0	0.0		
7943.0	94.0		91.0	91.0	1.5	3.0	0.0		
12590.0	94.0		87.8	87.7	3.0	6.0	-0.1		

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	93.9	1.5	1.5	-0.1
63.1	94.0	94.0	93.9	1.5	1.5	-0.1
125.9	94.0	94.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	94.0	1.0	1.0	0.0
7943.0	94.0	94.0	94.0	1.5	3.0	0.0
12590.0	94.0	94.0	94.0	3.0	6.0	0.0

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)

Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
dB	dB	dB	+	-	dB
116.0	111.9	111.8	1.0	1.0	-0.1

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)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	118.7	2.0	-0.3

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Test Data for So	und Level Me	eter					Page 4 of 5
Sound level me	eter type:	LxT	1	Serial No.	0004797	Date	27-May-2021
Microphone Preamp	type: type:		B02 MLxT1L	Serial No. Serial No.	163704 042622	Report:	21CA0526 02-01
Negative polari	ities:						
Re	ef. level		Response to 10 ms	Response to 100 us	Tolerance	Deviatio	n
dB		dB	dB	+/- dB	dB		
1	19.0		119.0	118.7	2.0	-0.3	

RMS ACCURACY TEST

The RMS detector	accuracy is tested	d on the reference ra	inge for a crest facto	r of 3.				
Test frequency:		2000 Hz						
Amplitude:		2 dB below the upper limit of the primary indicator range.						
Burst repetition	n frequency:	40 Hz		, 0				
Tone burst sig	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	114.0+6.6	114.0	113.9	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 burs	t indication	Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	111.2	111.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated bu	Repeated burst indication		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 tono burst:	1 mc

Duration of tone purst:	Ims					
Repetition Time	Level of	Expected	Actual	Tolerance	Deviation	Remarks
	tone burst	Leq	Leq			
msec	dB	dB	dB	+/- dB	dB	
1000	90.0	90.0	89.9	1.0	-0.1	60s integ.
10000	80.0	80.0	79.9	1.0	-0.1	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 HzIntegration time:10 sec

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58.0



0.0

0.0

1.7

2.2

Test Data for Sound Level Meter Page 5 of 5 Sound level meter type: LxT1 Serial No. 0004797 Date 27-May-2021 Microphone 377B02 Serial No. type: 163704 Preamp PRMLxT1L Serial No. 042622 Report: 21CA0526 02-01 type: The integrating sound level meter set to Leq: Duration Tolerance Rms level of Expected Actual Deviation +/- dB tone burst (dB) dB dB dB msec

58.0

The integrating sound level meter set to SEL:

88.0

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

10

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

Test frequency: Amplitude: Burst repetition frequency: Tone burst signal:		2000 Hz2 dB below the upper limit of the primary indicator range.40 Hz11 cycles of a sine wave of frequency 2000 Hz.				
at overload (dB)	1 dB	3 dB	dB	dB	dB	
113.4	112.4	109.4	3.0	1.0	0.0	

For integrating SLM, with the instrument indicating Leq.

119.2

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

ACOUSTIC TEST

120.2

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.

79.2

79.2

Frequency	Expected level	Actual level	Tolerar	nce (dB)	Deviation
Hz	dB	Measured (dB)	+	-	dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	78.1	1.0	1.0	0.2
8000	92.9	91.2	1.5	3.0	-1.7

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

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CERTIFICATE OF CALIBRATION

Certificate No.:	21CA0120 03	Page:	1	of	2	
Item tested			andrea 1986			
Description:	Acoustical Calibrat	tor (Class 1)				
Manufacturer:	Honglim Co., Ltd.					
Type/Model No.:	HLES-02					
Serial/Equipment No.:	2019612870					
Adaptors used:	÷					
Item submitted by						
Curstomer:	Lam Environmenta	al Services Limited.				
Address of Customer:	-					
Request No .:	-					
Date of receipt:	20-Jan-2021					
Date of test:	24-Jan-2021					
Date of test: Reference equipment		oration				
		oration Serial No.	Expiry Date:		Traceat	ole to:
Reference equipment	used in the calib		11-May-2021		SCL	
Reference equipment Description: Lab standard microphone	used in the calib Model:	Serial No.	11-May-2021 03-Jun-2021		SCL CEPREI	ĺ
Reference equipment Description: Lab standard microphone Preamplifier	used in the calib Model: B&K 4180 B&K 2673 B&K 2610	Serial No. 2341427 2743150 2346941	11-May-2021 03-Jun-2021 03-Jun-2021		SCL CEPREI CEPREI	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360	Serial No. 2341427 2743150 2346941 33873	11-May-2021 03-Jun-2021 03-Jun-2021 19-May-2021		SCL CEPRE CEPRE CEPRE	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A	Serial No. 2341427 2743150 2346941 33873 US36087050	11-May-2021 03-Jun-2021 03-Jun-2021 19-May-2021 19-May-2021		SCL CEPREI CEPREI CEPREI CEPREI	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360	Serial No. 2341427 2743150 2346941 33873 US36087050 GB41300350	11-May-2021 03-Jun-2021 03-Jun-2021 19-May-2021 19-May-2021 18-May-2021		SCL CEPRE CEPRE CEPRE CEPRE	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A	Serial No. 2341427 2743150 2346941 33873 US36087050	11-May-2021 03-Jun-2021 03-Jun-2021 19-May-2021 19-May-2021		SCL CEPREI CEPREI CEPREI CEPREI	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B	Serial No. 2341427 2743150 2346941 33873 US36087050 GB41300350	11-May-2021 03-Jun-2021 03-Jun-2021 19-May-2021 19-May-2021 18-May-2021		SCL CEPRE CEPRE CEPRE CEPRE	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter Ambient conditions	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B	Serial No. 2341427 2743150 2346941 33873 US36087050 GB41300350	11-May-2021 03-Jun-2021 03-Jun-2021 19-May-2021 19-May-2021 18-May-2021		SCL CEPRE CEPRE CEPRE CEPRE	
Reference equipment Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter	used in the calib Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B 53132A	Serial No. 2341427 2743150 2346941 33873 US36087050 GB41300350	11-May-2021 03-Jun-2021 03-Jun-2021 19-May-2021 19-May-2021 18-May-2021		SCL CEPRE CEPRE CEPRE CEPRE	

- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

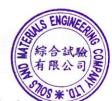
Test results

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

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

Approved Signatory:

Date: 25-Jan-2021



Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration ar 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

Company Chop:

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



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

Page: 2 of 2

1, Measured Sound Pressure Level

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

Frequency	Output Sound Pressure	Measured Output	Output level in dB re 20 μP
Shown	Level Setting	Sound Pressure Level	Estimated Expanded
Hz	dB	dB	Uncertainty
1000	94.00	93.77	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

21CA0120 03

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:

0.005 dB

At 1000 Hz	STF = 0.013 dB
Estimated	

Estimated expanded uncertainty

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 = 999.3 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 = 0.4 %
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.

	1	- End -	/
Calibrated by:		Checked by:	the
Date:	/ Fung Chi Yip/) 24-Jan-2021	Date:	Feng Junqi 25-Jan-2021

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

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



Appendix 4.3

Wind Data

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.9	181(S)
	01:00	2.3	231(SW)
	02:00	1.9	158(SSE)
	03:00	2.1	232(SW)
	04:00	2.1	214(SW)
	05:00	0.9	159(SSE)
	06:00	2.3	157(SSE)
	07:00	2.7	180(S)
	08:00	1.5	37(NE)
	09:00	1.1	49(NE)
	10:00	0.7	271(W)
1-Dec-21	11:00	1.3	137(SE)
1-000-21	12:00	2.7	126(SE)
	13:00	0.9	44(NE)
	14:00	1.3	139(SE)
	15:00	0.7	140(SE)
	16:00	0.9	90(E)
	17:00	0.9	187(S)
	18:00	0.5	182(S)
	19:00	0.9	318(NW)
	20:00	0.0	163(SSE)
	21:00	0.0	51(NE)
	22:00	0.5	77(ENE)
	23:00	0.7	208(SSW)
	00:00	0.5	175(S)
	01:00	1.1	93(E)
	02:00	0.7	200(SSW)
	03:00	1.5	311(NW)
	04:00	0.9	240(WSW)
	05:00	0.9	39(NE)
	06:00	0.7	199(SSW)
	07:00	1.5	257(WSW)
	08:00	1.1	149(SSE)
	09:00	1.1	283(WNW)
	10:00	1.1	202(SSW)
2-Dec-21	11:00	0.0	120(ESE)
2 000 21	12:00	1.7	145(SE)
	13:00	1.1	96(E)
	14:00	0.9	196(SSW)
	15:00	0.9	167(SSE)
	16:00	0.7	200(SSW)
	17:00	0.5	139(SE)
	18:00	0.9	252(WSW)
ſ	19:00	0.0	108(ESE)
ſ	20:00	0.0	299(WNW)
Ē	21:00	0.5	133(SE)
Ē	22:00	0.5	102(ESE)
-	23:00	0.0	97(E)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	154(SSE)
	01:00	1.3	349(N)
	02:00	1.3	307(NW)
ľ	03:00	1.1	174(S)
ľ	04:00	0.9	128(SE)
ľ	05:00	0.9	15(NNE)
ľ	06:00	1.1	18(NNE)
ľ	07:00	0.7	226(SW)
ľ	08:00	1.5	164(SSE)
ľ	09:00	1.3	245(WSW)
ľ	10:00	0.5	89(E)
	11:00	0.7	99(E)
3-Dec-21	12:00	1.3	218(SW)
F	13:00	0.7	243(WSW)
F	14:00	0.7	132(SE)
F	15:00	0.5	160(SSE)
F	16:00	1.3	192(SSW)
F	17:00	2.1	161(SSE)
F	18:00	0.7	266(W)
	19:00	1.1	330(NNW)
	20:00	0.0	340(NNW)
ŀ	21:00	0.0	154(SSE)
	22:00	1.7	224(SW)
	23:00	1.5	181(S)
	00:00	0.9	25(NNE)
	01:00	0.0	230(SW)
ŀ	02:00	1.3	176(S)
ŀ	03:00	3.1	152(SSE)
	04:00	2.7	187(S)
ŀ	05:00	1.1	122(ESE)
ŀ	06:00	0.0	125(SE)
ŀ	07:00	0.0	107(ESE)
ŀ	08:00	2.9	146(SE)
ŀ	09:00	2.5	177(S)
ŀ	10:00	0.5	246(WSW)
ŀ	11:00	2.1	32(NNE)
4-Dec-21	12:00	2.7	215(SW)
ŀ	13:00	0.9	90(E)
	14:00	4.3	266(W)
	15:00	0.0	210(SSW)
	16:00	1.7	152(SSE)
ŀ	17:00	1.7	210(SSW)
ŀ	18:00	0.0	248(WSW)
ŀ	19:00	0.0	
ŀ	20:00	0.0	195(SSW)
ŀ	20:00	0.0	180(S)
ŀ	21:00	0.0	262(W)
	22:00	0.0	341(NNW)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	125(SE)
	01:00	0.0	335(NNW)
	02:00	0.5	343(NNW)
	03:00	0.7	116(ESE)
	04:00	0.5	103(ESE)
	05:00	0.0	245(WSW)
	06:00	0.0	228(SW)
	07:00	1.3	118(ESE)
	08:00	1.3	169(S)
	09:00	1.3	116(ESE)
	10:00	0.9	209(SSW)
- D 04	11:00	4.3	92(E)
5-Dec-21	12:00	2.5	160(SSE)
_	13:00	1.5	116(ESE)
_	14:00	1.5	166(SSE)
_	15:00	2.1	200(SSW)
_	16:00	0.7	127(SE)
_	17:00	2.1	142(SE)
_	18:00	0.5	165(SSE)
_	19:00	0.0	336(NNW)
_	20:00	0.0	319(NW)
_	21:00	1.1	209(SSW)
_	22:00	0.7	308(NW)
	23:00	0.0	294(WNW)
	00:00	0.0	322(NW)
	01:00	0.0	75(ENE)
	02:00	0.0	149(SSE)
	03:00	0.0	336(NNW)
	04:00	0.0	330(NNW)
	05:00	1.1	332(NNW)
	06:00	1.3	333(NNW)
-	07:00	1.1	355(N)
	08:00	0.0	290(WNW)
_	09:00	3.7	138(SE)
_	10:00	2.7	225(SW)
0.0.01	11:00	1.9	85(E)
6-Dec-21	12:00	4.1	129(SE)
_	13:00	0.9	75(ENE)
_	14:00	2.9	132(SE)
_	15:00	0.9	202(SSW)
_	16:00	1.9	208(SSW)
	17:00	1.3	133(SE)
	18:00	0.9	138(SE)
-	19:00	0.0	11(N)
	20:00	0.0	297(WNW)
-	21:00	0.7	333(NNW)
_	22:00	0.0	323(NW)
-	23:00	0.0	329(NNW)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	23(NNE)
	01:00	0.0	194(SSW)
	02:00	0.0	348(NNW)
	03:00	0.0	323(NW)
	04:00	0.0	332(NNW)
	05:00	1.1	318(NW)
	06:00	0.0	11(N)
	07:00	0.0	321(NW)
	08:00	0.0	329(NNW)
	09:00	1.3	181(S)
	10:00	2.9	51(NE)
7	11:00	2.5	160(SSE)
7-Dec-21	12:00	2.3	163(SSE)
	13:00	0.5	207(SSW)
_	14:00	1.5	213(SSW)
_	15:00	1.3	215(SW)
_	16:00	0.9	210(SSW)
_	17:00	0.0	164(SSE)
-	18:00	2.3	280(W)
	19:00	1.3	159(SSE)
-	20:00	1.3	196(SSW)
_	21:00	2.1	228(SW)
	22:00	2.1	197(SSW)
F	23:00	0.0	161(SSE)
	00:00	0.0	250(WSW)
	01:00	1.1	205(SSW)
	02:00	0.9	196(SSW)
-	03:00	0.0	146(SE)
_	04:00	0.0	210(SSW)
_	05:00	0.0	202(SSW)
_	06:00	0.0	130(SE)
_	07:00	0.0	191(S)
_	08:00	0.0	180(S)
_	09:00	0.0	205(SSW)
	10:00	0.9	292(WNW)
	11:00	2.5	198(SSW)
8-Dec-21	12:00	1.7	145(SE)
_	13:00	1.7	216(SW)
_	14:00	0.0	282(WNW)
_	15:00	2.1	274(W)
	16:00	3.3	262(W)
	17:00	1.1	222(SW)
	18:00	0.0	353(N)
	19:00	0.7	225(SW)
	20:00	1.7	149(SSE)
_	20:00	1.9	205(SSW)
_	22:00	1.9	224(SW)
-	22:00	0.0	172(S)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	2.3	201(SSW)
	01:00	0.7	181(S)
	02:00	1.3	158(SSE)
	03:00	0.0	193(SSW)
F	04:00	0.0	223(SW)
F	05:00	0.0	176(S)
	06:00	0.0	222(SW)
F	07:00	0.0	149(SSE)
	08:00	2.1	173(S)
	09:00	2.1	184(S)
	10:00	0.0	219(SW)
0.0.01	11:00	1.3	154(SSE)
9-Dec-21	12:00	0.7	263(W)
	13:00	1.7	131(SE)
F	14:00	0.9	162(SSE)
F	15:00	0.0	196(SSW)
	16:00	2.1	169(S)
F	17:00	0.5	193(SSW)
F	18:00	0.5	162(SSE)
F	19:00	0.0	282(WNW)
F	20:00	0.0	274(W)
F	21:00	0.5	180(S)
F	22:00	1.5	181(S)
	23:00	1.1	171(S)
	00:00	0.0	189(S)
	01:00	0.0	263(W)
	02:00	0.0	282(WNW)
	03:00	0.0	85(E)
	04:00	0.0	330(NNW)
F	05:00	0.0	63(ENE)
	06:00	0.0	318(NW)
F	07:00	0.0	324(NW)
F	08:00	0.0	336(NNW)
	09:00	1.7	248(WSW)
	10:00	0.0	162(SSE)
10 Dec 21	11:00	3.1	115(ESE)
10-Dec-21	12:00	1.3	97(E)
	13:00	2.5	159(SSE)
	14:00	0.5	169(S)
	15:00	2.3	242(WSW)
	16:00	0.5	122(ESE)
F	17:00	1.9	229(SW)
F	18:00	1.1	201(SSW)
F	19:00	0.7	161(SSE)
F	20:00	1.5	162(SSE)
F	21:00	0.0	129(SE)
F	22:00	1.1	180(S)
	23:00	1.7	189(S)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	1.5	195(SSW)
	01:00	0.0	183(S)
	02:00	0.0	184(S)
	03:00	1.5	190(S)
	04:00	0.0	158(SSE)
	05:00	0.0	121(ESE)
	06:00	0.0	181(S)
	07:00	0.0	194(SSW)
	08:00	1.1	159(SSE)
F	09:00	2.3	282(WNW)
	10:00	0.0	192(SSW)
44 5 64	11:00	0.0	84(E)
11-Dec-21	12:00	1.1	334(NNW)
	13:00	1.7	133(SE)
ŀ	14:00	0.7	166(SSE)
ŀ	15:00	1.3	249(WSW)
	16:00	1.3	150(SSE)
-	17:00	1.3	10(N)
	18:00	1.5	224(SW)
	19:00	1.7	209(SSW)
	20:00	1.5	174(S)
	21:00	1.1	212(SSW)
	22:00	0.0	186(S)
-	23:00	0.0	188(S)
	00:00	0.7	246(WSW)
	01:00	0.0	209(SSW)
-	02:00	0.0	182(S)
	03:00	0.0	202(SSW)
	04:00	0.0	191(S)
-	05:00	0.0	321(NW)
	06:00	0.0	197(SSW)
_	07:00	0.0	204(SSW)
-	08:00	0.5	289(WNW)
	09:00	0.5	121(ESE)
	10:00	0.0	325(NW)
10 5 01	11:00	1.3	331(NNW)
12-Dec-21	12:00	0.0	161(SSE)
_	13:00	2.9	193(SSW)
_	14:00	2.5	145(SE)
_	15:00	1.3	122(ESE)
_	16:00	1.1	135(SE)
ŀ	17:00	0.7	200(SSW)
ŀ	18:00	0.0	336(NNW)
ŀ	19:00	0.9	227(SW)
ŀ	20:00	0.7	12(NNE)
ŀ	21:00	1.9	150(SSE)
ŀ	22:00	3.3	130(33E) 186(S)
	23:00	2.7	176(S)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	2.9	162(SSE)
	01:00	5.9	145(SE)
	02:00	2.9	153(SSE)
	03:00	2.7	162(SSE)
	04:00	5.3	171(S)
	05:00	3.7	156(SSE)
-	06:00	2.9	133(SE)
-	07:00	3.7	141(SE)
_	08:00	3.1	182(S)
-	09:00	2.7	124(SE)
-	10:00	1.9	154(SSÉ)
40 0 04	11:00	3.7	130(SE)
13-Dec-21	12:00	4.1	136(SE)
-	13:00	1.1	179(S)
F	14:00	1.5	147(SSE)
-	15:00	0.0	249(WSW)
-	16:00	1.3	57(ENE)
F	17:00	1.1	151(SSE)
-	18:00	0.0	166(SSE)
F	19:00	0.0	269(W)
F	20:00	0.0	221(SW)
F	21:00	0.0	129(SE)
F	22:00	0.0	138(SE)
	23:00	0.0	352(N)
	00:00	1.1	297(WNW)
	01:00	0.0	328(NNW)
	02:00	0.5	270(W)
	03:00	0.7	297(WNW)
	04:00	0.0	329(NNW)
	05:00	0.0	189(S)
	06:00	1.7	67(ENE)
	07:00	2.1	119(ESE)
	08:00	2.1	113(ESE)
	09:00	2.1	192(SSW)
	10:00	1.1	44(NE)
14 Dec 21	11:00	0.7	107(ESE)
14-Dec-21	12:00	1.3	188(S)
	13:00	1.3	176(S)
	14:00	0.5	349(N)
	15:00	0.0	240(WSW)
-	16:00	0.7	315(NW)
F	17:00	1.1	202(SSW)
F	18:00	0.9	225(SW)
F	19:00	2.1	204(SSW)
F	20:00	1.7	196(SSW)
F	21:00	1.9	213(SSW)
F	22:00	1.3	180(S)
	23:00	1.7	202(SSW)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.9	172(S)
	01:00	2.7	175(S)
	02:00	0.0	192(SSW)
	03:00	0.0	222(SW)
	04:00	0.0	116(ESE)
	05:00	0.0	150(SSE)
	06:00	0.0	180(S)
	07:00	0.0	161(SSE)
	08:00	1.1	199(SSW)
	09:00	0.0	193(SSW)
	10:00	2.9	169(S)
15 Dec 01	11:00	1.7	168(SSE)
15-Dec-21	12:00	1.9	206(SSW)
	13:00	1.5	230(SW)
F	14:00	0.7	333(NNW)
	15:00	1.7	159(SSE)
	16:00	2.3	159(SSE)
	17:00	0.9	178(S)
	18:00	0.9	219(SW)
F	19:00	1.3	172(S)
	20:00	0.9	234(SW)
F	21:00	0.0	190(S)
	22:00	1.9	162(SSE)
	23:00	0.0	210(SSW)
	00:00	0.0	127(SE)
	01:00	1.3	175(S)
F	02:00	0.0	232(SW)
	03:00	1.1	202(SSW)
	04:00	1.7	181(S)
F	05:00	0.7	217(SŴ)
	06:00	0.0	149(SSE)
F	07:00	0.5	216(SW)
F	08:00	0.0	220(SW)
F	09:00	2.5	199(SSW)
F	10:00	2.5	250(WSW)
10 Dec 01	11:00	2.5	174(S)
16-Dec-21	12:00	1.9	220(SW)
F	13:00	1.5	156(SSE)
F	14:00	4.3	199(SSW)
F	15:00	2.1	170(S)
F	16:00	1.7	133(SE)
F	17:00	0.0	60(ENE)
F	18:00	0.0	168(SSE)
F	19:00	0.7	232(SW)
F	20:00	0.0	124(SE)
F	21:00	0.0	68(ENE)
F	22:00	0.0	301(WNW)
	23:00	0.0	62(ENE)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.0	170(S)
	01:00	0.0	154(SSE)
	02:00	0.0	108(ESE)
	03:00	0.0	124(SE)
	04:00	0.0	206(SSW)
	05:00	0.5	92(E)
	06:00	1.7	153(SSE)
	07:00	0.5	86(E)
	08:00	1.1	46(NE)
F	09:00	2.1	103(ESÉ)
F	10:00	0.9	133(SE)
47 0 04	11:00	2.1	346(NNW)
17-Dec-21	12:00	0.7	46(NE)
F	13:00	1.3	100(E)
-	14:00	1.7	223(SW)
-	15:00	1.1	189(S)
F	16:00	1.1	147(SSE)
F	17:00	0.5	123(ESE)
F	18:00	1.3	134(SE)
	19:00	2.1	156(SSE)
-	20:00	0.9	145(SE)
	21:00	1.5	225(SW)
-	22:00	1.1	189(S)
F	23:00	0.9	272(W)
	00:00	0.5	137(SE)
F	01:00	1.3	146(SE)
F	02:00	1.1	140(SE)
	03:00	0.7	112(ESÉ)
	04:00	1.3	73(ENE)
F	05:00	1.9	83(E)
	06:00	0.7	276(W)
F	07:00	1.7	111(ESE)
	08:00	0.9	323(NW)
F	09:00	1.3	128(SE)
	10:00	0.5	127(SE)
10 Dec 01	11:00	1.1	278(W)
18-Dec-21	12:00	1.5	141(SE)
	13:00	1.1	234(SW)
-	14:00	1.1	132(SE)
ŀ	15:00	0.0	246(WSW)
ľ	16:00	0.9	204(SSW)
ľ	17:00	0.7	154(SSE)
	18:00	0.9	128(SE)
ŀ	19:00	0.0	75(ENE)
ŀ	20:00	0.0	90(E)
ŀ	21:00	0.0	337(NNW)
ŀ	22:00	2.1	188(S)
	23:00	1.3	141(SE)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.7	25(NNE)
	01:00	0.7	238(WSW)
	02:00	0.9	229(SW)
	03:00	1.1	273(W)
	04:00	0.9	18(NNÉ)
	05:00	0.7	109(ESE)
F	06:00	1.3	32(NNE)
	07:00	0.7	27(NNE)
F	08:00	0.7	63(ENE)
-	09:00	0.9	190(S)
-	10:00	0.7	210(SSW)
10 0 01	11:00	1.5	237(WSW)
19-Dec-21	12:00	2.1	160(SSE)
	13:00	0.7	105(ESE)
	14:00	1.3	124(SE)
	15:00	0.5	90(E)
	16:00	0.0	116(ESE)
_	17:00	1.5	200(SSW)
-	18:00	0.5	120(ESE)
_	19:00	1.1	147(SSE)
_	20:00	0.0	102(ESE)
-	21:00	0.7	171(S)
_	22:00	0.0	297(WNW)
-	23:00	0.0	192(SSW)
	00:00	0.0	113(ESE)
-	01:00	0.0	112(ESE)
-	02:00	0.0	196(SSW)
-	03:00	1.1	185(S)
_	04:00	0.7	146(SE)
-	05:00	0.9	180(S)
-	06:00	0.7	232(SW)
-	07:00	2.5	128(SE)
-	08:00	0.9	158(SSE)
-	09:00	0.5	259(W)
-	10:00	1.1	270(W)
-	11:00	1.3	152(SSE)
20-Dec-21	12:00	0.0	241(WSW)
-	13:00	1.1	278(W)
-	14:00	0.9	314(NW)
	15:00	1.7	189(S)
ŀ	16:00	0.0	151(SSE)
ŀ	17:00	1.3	283(WNW)
ŀ	18:00	1.9	102(ESE)
ŀ	19:00	1.1	102(ESE) 197(SSW)
	20:00	1.1	129(SE)
ŀ	20:00	0.9	107(ESE)
ŀ	21:00	0.5	82(E)
	22:00	0.0	47(NE)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.9	246(WSW)
	01:00	2.3	102(ESE)
-	02:00	0.9	50(NE)
_	03:00	1.7	262(W)
-	04:00	0.0	253(WSW)
-	05:00	0.5	349(N)
-	06:00	0.0	280(W)
-	07:00	0.7	126(SE)
-	08:00	0.5	275(W)
F	09:00	1.7	100(E)
F	10:00	1.1	219(SW)
	11:00	1.5	137(SE)
21-Dec-21	12:00	1.1	158(SSE)
-	13:00	0.9	90(E)
F	14:00	0.0	98(E)
F	15:00	0.7	70(ENE)
-	16:00	0.9	226(SW)
-	17:00	0.7	312(NW)
	18:00	0.9	347(NNW)
	19:00	0.0	343(NNW)
F	20:00	0.7	51(NE)
	21:00	0.5	131(SE)
F	22:00	0.5	126(SE)
	23:00	0.0	193(SSW)
	00:00	0.0	241(WSW)
	01:00	0.0	121(ESE)
	02:00	0.0	136(SE)
	03:00	0.5	19(NNE)
F	04:00	0.9	66(ENE)
-	05:00	0.0	169(S)
	06:00	0.0	209(SSW)
-	07:00	0.0	307(NW)
-	08:00	0.0	128(SE)
-	09:00	0.0	224(SW)
	10:00	0.0	124(SE)
	11:00	2.9	66(ENE)
22-Dec-21	12:00	0.7	220(SW)
-	13:00	1.1	100(E)
F	14:00	4.3	85(E)
ŀ	15:00	1.5	82(E)
	16:00	0.0	317(NW)
-	17:00	0.9	177(S)
ŀ	18:00	0.7	189(S)
ŀ	19:00	1.1	145(SE)
F	20:00	2.1	195(SSW)
ŀ	21:00	0.5	218(SW)
ŀ	22:00	0.0	55(NE)
	22:00	0.9	149(SSE)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.5	76(ENE)
-	01:00	0.0	56(NE)
-	02:00	1.3	296(WNW)
-	03:00	0.5	288(WNW)
	04:00	0.0	111(ESE)
	05:00	2.3	163(SSE)
-	06:00	2.1	181(S)
F	07:00	1.1	185(S)
F	08:00	1.1	189(S)
F	09:00	1.5	208(SSW)
F	10:00	2.5	192(SSW)
	11:00	2.7	187(S)
23-Dec-21	12:00	1.5	122(ESE)
F	13:00	0.0	15(NNE)
F	14:00	1.9	249(WSW)
F	15:00	1.5	290(WNW)
F	16:00	1.5	254(WSW)
F	17:00	0.7	193(SSW)
F	18:00	2.3	36(NE)
	19:00	1.3	122(ESÉ)
F	20:00	0.0	19(NNE)
F	21:00	0.5	254(WSW)
F	22:00	0.7	169(S)
F	23:00	0.0	145(SE)
	00:00	0.0	228(SW)
F	01:00	0.0	231(SW)
F	02:00	0.0	295(WNW)
F	03:00	0.7	149(SSE)
F	04:00	0.0	151(SSE)
F	05:00	0.0	188(S)
F	06:00	0.0	244(WSW)
F	07:00	0.0	197(SSW)
F	08:00	0.0	158(SSE)
F	09:00	0.0	206(SSW)
F	10:00	1.1	224(SW)
04 Dec 04	11:00	1.3	89(E)
24-Dec-21	12:00	1.7	242(WSW)
F	13:00	0.0	261(W)
F	14:00	0.7	158(SSE)
F	15:00	1.7	348(NNW)
F	16:00	1.5	356(N)
F	17:00	0.9	126(SE)
F	18:00	0.9	30(NNE)
F	19:00	0.0	126(SE)
F	20:00	0.9	32(NNE)
F	21:00	0.9	295(WNW)
F	22:00	0.0	150(SSE)
	23:00	0.0	216(SW)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0.9	247(WSW)
	01:00	0.5	270(W)
	02:00	0.9	213(SSW)
	03:00	1.3	193(SSW)
F	04:00	1.1	198(SSW)
	05:00	1.3	151(SSE)
	06:00	0.9	134(SE)
	07:00	0.9	200(SSŴ)
	08:00	1.3	210(SSW)
	09:00	1.7	146(SE)
F	10:00	2.9	122(ESÉ)
05 D 04	11:00	2.7	105(ESE)
25-Dec-21	12:00	2.7	113(ESE)
-	13:00	1.1	137(SE)
-	14:00	1.1	77(ENE)
-	15:00	1.5	199(SSW)
	16:00	1.7	192(SSW)
_	17:00	1.9	150(SSE)
_	18:00	2.7	183(S)
-	19:00	2.1	148(SSE)
-	20:00	2.3	189(S)
	21:00	1.7	141(SE)
	22:00	0.7	220(SW)
-	23:00	2.7	130(SE)
	00:00	2.1	148(SSE)
	01:00	1.9	171(S)
	02:00	2.9	100(E)
-	03:00	5.3	146(SE)
	04:00	2.9	134(SE)
_	04:00	3.7	161(SSE)
-	05:00	2.7	196(SSW)
_	07:00	2.9	183(S)
F	07:00	3.3	124(SE)
F	09:00	3.3	130(SE)
F	10:00	3.7	175(S)
-		+	
26-Dec-21	11:00	2.7 3.7	168(SSE)
-	12:00 13:00	2.9	150(SSE) 207(SSW)
-	14:00		137(SE)
-	14:00	2.1	54(NE)
ŀ	16:00	3.7	· · ·
ŀ	16:00	2.1	156(SSE) 187(S)
ŀ		3.9	
ŀ	18:00		147(SSE)
ŀ	19:00	4.5	213(SSW)
ŀ	20:00	5.3	183(S)
ŀ	21:00	4.3	139(SE)
ŀ	22:00	1.7	204(SSW)
	23:00	2.9	132(SE)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	2.5	174(S)
	01:00	2.5	135(SE)
	02:00	4.5	123(ESE)
	03:00	3.7	135(SE)
	04:00	7.3	163(SSE)
	05:00	4.3	170(S)
	06:00	3.5	155(SSE)
	07:00	3.9	125(SE)
	08:00	2.7	88(E)
	09:00	3.3	123(ESE)
	10:00	5.1	113(ESE)
07 Dec 04	11:00	3.7	123(ESE)
27-Dec-21	12:00	1.3	120(ESE)
	13:00	0.9	222(SW)
	14:00	2.5	101(E)
	15:00	2.5	146(SE)
	16:00	3.7	130(SE)
_	17:00	1.9	184(S)
_	18:00	1.5	150(SSE)
_	19:00	3.5	118(ESE)
_	20:00	2.3	158(SSE)
-	21:00	2.9	137(SE)
-	22:00	2.5	111(ESE)
-	23:00	1.7	83(E)
	00:00	2.5	146(SE)
-	01:00	1.3	159(SSE)
-	02:00	1.1	163(SSE)
-	03:00	1.1	237(WSW)
_	04:00	1.1	161(SSE)
_	05:00	2.9	152(SSE)
_	06:00	0.9	281(W)
_	07:00	0.5	49(NE)
_	08:00	2.5	137(SE)
-	09:00	0.9	139(SE)
_	10:00	2.1	177(S)
_	11:00	1.1	190(S)
28-Dec-21	12:00	2.3	78(ENE)
-	13:00	2.9	102(ESE)
-	14:00	1.5	154(SSE)
-	15:00	1.3	164(SSE)
-	16:00	1.9	57(ENE)
_	17:00	1.5	75(ENE)
H	18:00	0.9	148(SSE)
-	19:00	1.3	136(SE)
F	20:00	0.5	176(S)
-	20:00	0.7	170(S)
-	21:00	0.9	203(SSW)
-	22:00	0.9	

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	1.5	193(SSW)
	01:00	0.9	158(SSE)
	02:00	0.5	270(W)
	03:00	1.1	89(E)
	04:00	0.9	194(SSW)
	05:00	0.0	109(ESE)
	06:00	0.0	227(SW)
	07:00	0.0	139(SE)
	08:00	0.9	286(WNW)
	09:00	0.0	209(SSW)
	10:00	0.7	141(SE)
20 Dec 21	11:00	1.7	331(NNW)
29-Dec-21	12:00	4.1	354(N)
	13:00	2.9	340(NNW)
	14:00	5.1	9(N)
	15:00	1.3	107(ESE)
	16:00	1.3	121(ESE)
	17:00	1.5	169(S)
	18:00	1.7	148(SSE)
	19:00	1.5	79(E)
	20:00	0.0	323(NW)
	21:00	0.7	323(NW)
	22:00	0.0	336(NNW)
	23:00	0.0	355(N)
	00:00	2.1	310(NW)
	01:00	1.7	355(N)
	02:00	0.9	82(E)
	03:00	2.1	21(NNE)
	04:00	0.0	137(SE)
	05:00	1.5	89(E)
F	06:00	1.9	184(S)
	07:00	1.3	131(SE)
	08:00	1.1	111(ESE)
F	09:00	0.0	60(ENE)
	10:00	2.3	119(ESÉ)
20 Dec 21	11:00	3.3	129(SE)
30-Dec-21	12:00	2.5	78(ENE)
	13:00	2.9	96(E)
	14:00	2.3	145(SE)
	15:00	1.5	123(ESE)
	16:00	1.9	144(SE)
ľ	17:00	1.7	205(SSW)
ľ	18:00	1.1	219(SW)
ľ	19:00	1.1	156(SSE)
ľ	20:00	0.7	190(S)
ľ	21:00	0	181(S)
ľ	22:00	0.9	187(S)
	23:00	0	187(S)

Date	Time	Wind Speed (m/s)	Wind Direction (degree)
	00:00	0	163(SSE)
	01:00	0	123(ESE)
	02:00	0	185(S)
	03:00	0	322(NW)
	04:00	0	209(SSW)
	05:00	0	149(SSE)
	06:00	2.5	117(ESE)
	07:00	1.5	139(SE)
	08:00	1.7	109(ESE)
	09:00	0	202(SSW)
	10:00	2.3	142(SE)
31-Dec-21	11:00	1.5	240(WSW)
01-Dec-21	12:00	1.9	111(ESE)
	13:00	3.5	94(E)
	14:00	2.7	85(E)
	15:00	2.1	295(WNW)
	16:00	2.1	205(SSW)
	17:00	1.7	184(S)
	18:00	1.9	205(SSW)
	19:00	1.9	193(SSW)
	20:00	1.1	251(WSW)
	21:00	0.5	99(E)
	22:00	0	318(NW)
	23:00	1.5	185(S)



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Appendix 5.1

Monitoring Schedule for Reporting Month and Next Reporting Month

am	Contract No. SPW 12/2021 Environmental Team (2021-2024) for Shek Wui Effluent Polishing Plant - Main Works Tentative Impact Monitoring Schedule Dec 2021										
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday					
-			01 Dec	02 Dec	03 Dec	04 Dec					
					AQM - 24hr TSP	AQM - 1hr TSP					
					Ecological Monitoring						
05 Dec	06 Dec	07 Dec	08 Dec	09 Dec AQM - 24hr TSP	10 Dec <mark>AQM - 1hr TSP</mark>	11 Dec					
					NM Ecological Monitoring						
12 Dec	13 Dec	14 Dec	15 Dec AQM - 24hr TSP	16 Dec AQM - 1hr TSP NM	17 Dec	18 Dec					
					Ecological Monitoring						
19 Dec	20 Dec	21 Dec	22 Dec	23 Dec	24 Dec	25 Dec					
		AQM - 24hr TSP	AQM - 1hr TSP	Ecological Monitoring							
26 Dec	27 Dec AQM - 24hr TSP	28 Dec AQM - 1hr TSP	29 Dec	30 Dec	31 Dec						
		NM			Ecological Monitoring						

Remark:

- AQM: Air Quality Monitoring

- NM: Noise Monitoring, the monitoring dates are tentative and subject to change

- Ecological Monitoring dates are tentative and subject to change based on real-time tide.

lam	Contract No. SPW 12/2021 Environmental Team (2021-2024) for Shek Wui Effluent Polishing Plant - Main Works Tentative Impact Monitoring Schedule Jan 2022 ay Monday Tuesday Thursday Friday Saturday										
Sunday	Monday	Tuesday			Friday	Saturday					
		· · ·		·		01 Jan					
						AQM - 24hr TSP					
02 Jan	03 Jan	04 Jan	05 Jan	06 Jan	07 Jan	08 Jan					
02.0011	AQM - 1hr TSP	04 041	00 001	00 001	AQM - 24hr TSP	AQM - 1hr TSP					
	NM										
					Ecological Monitoring						
09 Jan	10 Jan	11 Jan	12 Jan	13 Jan	14 Jan	15 Jan					
				AQM - 24hr TSP	AQM - 1hr TSP						
					NM Ecological Monitoring						
16 Jan	17 Jan	18 Jan	19 Jan	20 Jan	21 Jan	22 Jan					
			AQM - 24hr TSP	AQM - 1hr TSP							
				NM							
					Ecological Monitoring						
23 Jan	24 Jan	25 Jan	26 Jan	27 Jan	28 Jan						
		AQM - 24hr TSP	AQM - 1hr TSP			AQM - 24hr TSP					
30 Jan			NM		Ecological Monitoring						
Remark:	AQM - 1hr TSP										

Remark:

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



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Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on weekday)

Location: NM1 - G/F, Wai Loi Tsuen

				Measurement Noise Level Baseline Level Construction Noise Level Limit Le						
Date	Time	Weather	Wind Speed	Leq	L10	L90	Leq	Leq	Leq	
			(m/s)		Unit: dB(A), (30min)					
10/12/2021	13:00	Fine	0.0	56.5	59.2	54.3	63.4	57	75	
16/12/2021	10:00	Fine	0.0	57.1	60.5	52.6	63.4	57	75	
22/12/2021	13:00	Fine	0.0	57.8	59.9	54.1	63.4	58	75	
28/12/2021	13:10	Fine	0.0	57.5	59.5	53.5	63.4	58	75	

Location: NM2 - G/F, Fu Tei Au

				Measurement Noise Level Baseline Level Construction Noise Level					Limit Level
Date	Time	Weather	Wind Speed	Leq	L10	L90	Leq	Leq	Leq
			(m/s)	Unit: dB(A), (30-min)					
10/12/2021	14:00	Fine	0.0	58.0	61.0	53.0	58.0	58	75
16/12/2021	10:45	Fine	0.0	58.2	61.1	53.1	58.0	45	75
22/12/2021	13:50	Fine	0.0	57.8	59.8	55.6	58.0	58	75
28/12/2021	14:00	Fine	0:00	57.9	59.8	56.0	58.0	58	75

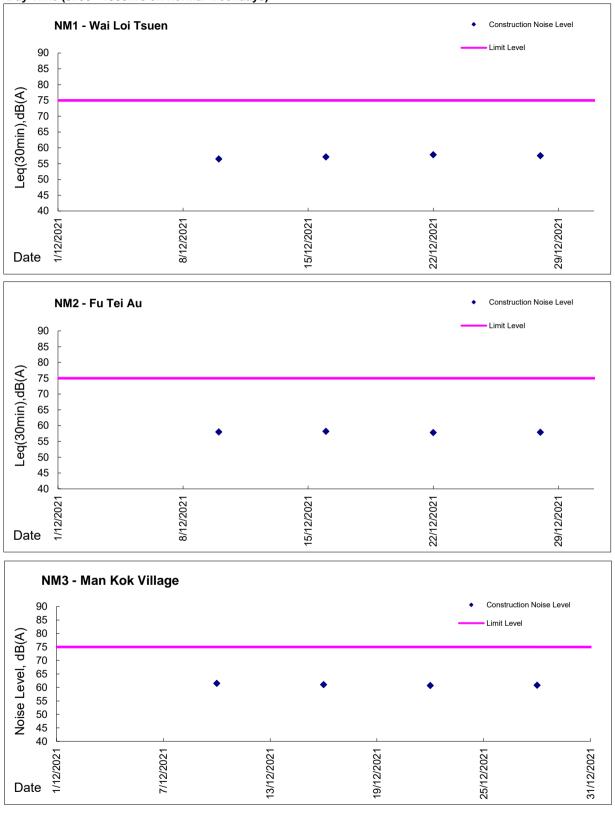
Location:	NM3 - G/F, Man kok Village
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				Measurement Noise Level Baseline Level Construction Noise Level Limit					
Date	Time	Weather	Wind Speed	Leq	L10	L90	Leq	Leq	Leq
			(m/s)				Unit: dB	(A), (30min)	
10/12/2021	15:00	Fine	0.0	61.5	64.5	58.9	63.4	62	75
16/12/2021	11:30	Fine	0.0	61.0	64.2	58.9	63.4	61	75
22/12/2021	15:00	Fine	0.0	60.7	63.0	58.7	63.4	61	75
28/12/2021	15:00	Fine	0:00	60.8	62.9	57.9	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)





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Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations

Date	Weather Condition	Time	Mass Concentration (µg/m3)	Model No.	Serial No.
4-Dec-21	Fine	8:56	11		
4-Dec-21	Fine	9:57	183	831	Y23160
4-Dec-21	Fine	10:58	98		
10-Dec-21	Fine	13:00	18		
10-Dec-21	Fine	14:01	16		
10-Dec-21	Fine	15:02	18		R22586
16-Dec-21	Fine	8:49	20		1122300
16-Dec-21	Fine	9:50	33		
16-Dec-21	Fine	10:51	26	BT-645	
22-Dec-21	Fine	13:40	17	D1-043	
22-Dec-21	Fine	14:41	18		
22-Dec-21	Fine	15:42	18		X19299
28-Dec-21	Fine	13:15	18		A19299
28-Dec-21	Fine	14:16	16		
28-Dec-21	Fine	15:17	18		

Date	Weather Condition	Time	Mass Concentration (µg/m3)	Model No.	Serial No.
4-Dec-21	Fine	8:44	30		
4-Dec-21	Fine	9:58	102	831	Y23153
4-Dec-21	Fine	10:59	100		
10-Dec-21	Fine	13:01	19		
10-Dec-21	Fine	14:02	18		
10-Dec-21	Fine	15:03	20		X19299
16-Dec-21	Fine	8:41	31		X19299
16-Dec-21	Fine	9:42	29		
16-Dec-21	Fine	10:43	30	BT-645	
22-Dec-21	Fine	13:15	15	B1-045	
22-Dec-21	Fine	14:16	15		R22586
22-Dec-21	Fine	15:17	15		
28-Dec-21	Fine	13:10	18		
28-Dec-21	Fine	14:11	18		R22586
28-Dec-21	Fine	15:12	19		



Location: AM1a - Site Boundary of the Shek Wu Hui STW (East) Impact Monitoring Result on 24-hour TSP monitoring

Date	Sampling	Weather	Pressu	re, hPa	Temp	о., °С	Filter paper no.	Filter Weight	., 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		
03-Dec-21	8:00	Fine	1021.5	1022.2	18	18.1	AM1a_24hr_008377	2.6950	2.8709	17437.93	17461.93	24.00	1.26	1.26	1.26	1809	97		
09-Dec-21	8:00	Fine	1022.3	1020.7	20.2	20.9	AM1a_24hr_008378	2.6750	2.7389	17461.93	17485.93	24.00	1.25	1.28	1.27	1822	35	G3101	0401-1105
15-Dec-21	8:00	Cloudy	1016.1	1015.8	21.5	23.2	AM1a_24hr_010090	2.7615	2.8633	17485.93	17509.93	24.00	1.20	1.22	1.21	1739	59	00101	0401 1100
21-Dec-21	8:00	Cloudy	1013.5	1016.5	17.3	19.3	AM1a_24hr_010108	2.7854	2.8520	17509.93	17533.93	24.00	1.25	1.25	1.25	1804	37		
27-Dec-21	8:00	Fine	1027.1	1024.4	12	15.3	AM1a_24hr_010131	2.7873	2.8652	17533.93	17557.93	24.00	1.27	1.26	1.27	1823	43		



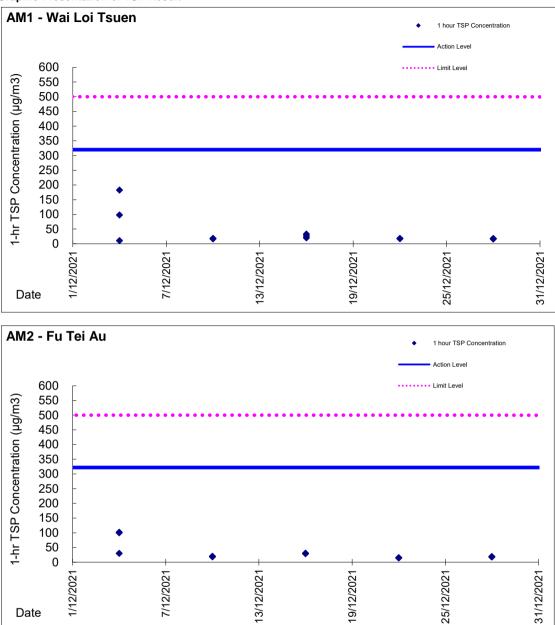
Location: AM2a - Site Boundary of the Shek Wu Hui STW (North) Impact Monitoring Result on 24-hour TSP monitoring

Date	Sampling	Weather	Pressu	re, hPa	Temp	o., °C	Filter paper no.	Filter Weight,	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		
03-Dec-21	8:00	Fine	1021.5	1022.2	18	18.1	AM2a_24hr_008379	2.6912	2.8269	17437.93	17461.93	24.00	1.28	1.31	1.29	1864	73		
09-Dec-21	8:00	Fine	1022.3	1020.7	20.2	20.9	AM2a 24hr 010067	2.7237	2.8556	17461.93	17485.93	24.00	1.25	1.25	1.25	1798	73	G3101	1096-2305
15-Dec-21	8:00	Cloudy	1016.1	1015.8	21.5	23.2	AM2a 24hr 010091	2.7587	2.8755	17485.93	17509.93	24.00	1.19	1.19	1.19	1710	68	00101	1000 2000
21-Dec-21	8:00	Cloudy	1013.5	1016.5	17.3	19.3	AM2a 24hr 010130	2.7939	2.873	17509.93	17533.93	24.00	1.19	1.19	1.19	1719	39		
27-Dec-21	8:00	Fine	1027.1	1024.4	12	15.3	AM2a_24hr_010148	2.7956	2.9604	17533.93	17557.93	24.00	1.16	1.15	1.15	1659	99		



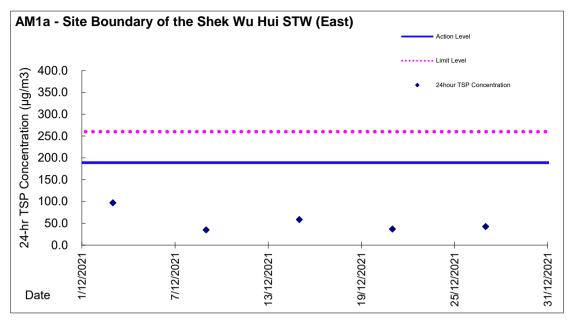
Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1

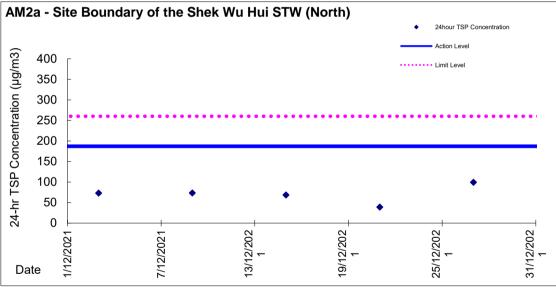






Graphic Presentation of TSP Result







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Appendix 5.4

Details of Ecological Monitoring Results in the Reporting Month

5.1. ECOLOGICAL MONITORING RESULTS

5.1.1. For this reporting month, the numbers of species and individuals recorded were provided in Table 1 and the abundance of representative species were shown in Table 2.

	Number of Species	Abundance
All Avifauna	50	2293
Waterbirds	19	739

Table 2 Abundance of Representative Waterbirds in the Reporting Month

Species Name	Common Name	Chinese Name	Abundance
Egretta garzetta	Little Egret	小白鷺	114
Ardea cinerea	Grey Heron	蒼鷺	152
Ardeola bacchus	Chinese Pond Heron	池鷺	102
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	109
Ardea alba	Great Egret	大白鷺	75
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	81
		Total	633

<u>Analysis</u>

5.1.2. The result of student t-tests for all waterbirds and representative waterbirds are compiled in Table 3 and 4 respectively. Further details are provided in Appendix 5.4b.

T-values of Dat	a in Reporting N	Confidence Level (Critical Value)				
			95% (-2.132)	99% (-3.747)		
Abundance	Monthly	6.476	~	✓		
Abundance	Seasonal	7.253	~	~		

Remarks:

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

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

Table 4 T-test Result for Representative Waterbirds in the Reporting Month

Common Name of Representative Waterbird	T-value	Confiden (Critica		T-value		nce Level I Value)	Overall	
	Monthly	95% (-	99% (-	Seasonal	95% (-	99% (-		
	wontiny	2.132)	3.747)	Seasonai	2.132)	3.747)		
Little Egret	3.063	✓	✓	2.438	◆	✓	✓	
Grey Heron	4.348	✓	~	3.195	✓	✓	✓	
Chinese Pond Heron	5.879	~	~	5.879	~	~	~	
Great Cormorant	3.334	~	>	5.035	>	~	✓	
Great Egret	2.920	~	>	3.244	>	✓	✓	
Eastern Cattle Egret	3.320	~	✓	3.971	◆	~	✓	

Remarks:

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

X = 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.

- **5.1.3.** No Action Level and Limit Level was triggered for ecological monitoring in the reporting month.
- **5.1.4.** Site observation in the reporting month shows that construction activities are similar to previous months. However, moderate to High level of Construction noises from the Project Site were recorded during the monitoring. Although no Action Level and Limit Level was triggered, mitigation measures such as noise barrier in green and hoarding in green around the construction site near Sheung Yue River was recommended.
- **5.1.5.** The monitoring work will continue next month to evaluate any construction impact on waterbirds.

Observations

- 5.1.6. Waterbird behaviour observed during ecological monitoring are listed below:
 - Flying
 - Foraging
 - Soaring
 - Resting
- **5.1.7.** The anthropogenic activities observed during ecological monitoring are listed in **Table 5**.

Table 5 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				
T2 (PC3, PC4)	Construction activities such as Sheet-piling, generator & wielding	Human Activities such as Fishing, Landscape Planting				

	Observations					
Location(s)	Project Related	Non-project Related				
	works Scaffolding, sedimentation Tank, Excavation and crane	Construction activities such as Sheet-piling, generator & wielding works Scaffolding, sedimentation Tank, Excavation and crane				
PC5	Construction activities Excavation and crane	N/A				
T3 (PC6, PC7)	Construction activities such as Sheet-piling	Human Activities such as Fishing Construction activities such as Excavation Sheet-piling, generator & wielding works Scaffolding				



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Appendix 5.5

Ecological Monitoring Results and Analysis

Summary data of the Ecological Monitoring

Scientific Names	Common Names	Chinese Names	Waterbird		Transect Count Abundance
Nycticorax nycticorax	Black-crowned Night Heron	夜鷺	Х	2	N/A
Ardeola bacchus	Chinese Pond Heron	池鷺	х	102	+++++
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	Х	81	+++++
Ardea cinerea	Grey Heron	蒼鷺	Х	152	+++++
Ardea alba	Great Egret	大白鷺	х	75	+++++
Egretta garzetta	Little Egret	小白鷺	х	114	+++++
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	Х	109	+++++
Milvus migrans	Black Kite	黑鳶	Х	17	+
Amaurornis phoenicurus	White-breasted Waterhen	白胸苦惡鳥	Х	2	N/A
Himantopus himantopus	Black-winged Stilt	黑翅長腳鷸	Х	3	+
Tringa stagnatilis	Marsh Sandpiper	澤鷸	x	3	+
Tringa nebularia	Common Greenshank	青腳鷸	х	5	+
Tringa ochropus	Green Sandpiper	白腰草鷸	Х	3	+
Actitis hypoleucos	Common Sandpiper	磯鷸	Х	41	++++
Spilopelia chinensis	Spotted Dove	珠頸斑鳩		99	+++++
Centropus sinensis	Greater Coucal	褐翅鴉鵑	Х	1	+
Apus pacificus	Pacific Swift	白腰雨燕		0	+
Halcyon smyrnensis	White-throated Kingfisher	白胸翡翠	Х	11	+
Alcedo atthis	Common Kingfisher	普通翠鳥	х	13	++
Ceryle rudis	Pied Kingfisher	斑魚狗	х	4	++
Psittacula krameri	Rose-ringed Parakeet	紅領綠鸚鵡		11	++
Lanius schach	Long-tailed Shrike	棕背伯勞		1	+
Dicrurus macrocercus	Black Drongo	黑卷尾		2	+
Pica pica	Eurasian Magpie	喜鵲		10	+
Corvus torquatus	Collared Crow	白頸鴉	х	1	+
Corvus macrorhynchos	Large-billed Crow	大嘴烏鴉		6	+
Parus cinereus	Cinereous Tit	蒼背山雀		34	++++
Pycnonotus jocosus	Red-whiskered Bulbul	紅耳鵯		165	+++++
Pycnonotus sinensis	Chinese Bulbul	白頭鵯		138	+++++
Hirundo rustica	Barn Swallow	家燕		17	+
Cecropis daurica	Red-rumped Swallow	金腰燕		10	++
Phylloscopus inornatus	Yellow-browed Warbler	黃眉柳鶯		58	+++++

Scientific Names	Common Names	Chinese Names	Waterbird	Point Count Abundance	Transect Count Abundance
Prinia flaviventris	Yellow-bellied Prinia	黃腹鷦鶯		15	+
Prinia inornata	Plain Prinia	純色鷦鶯		34	++++
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯		74	+++++
Garrulax perspicillatus	Masked Laughingthrush	黑臉噪鶥		7	+
Zosterops japonicus	Japanese White-eye	暗綠繡眼鳥		174	+++++
Acridotheres cristatellus	Crested Myna	八哥		373	+++++
Spodiopsar cineraceus	White-cheeked Starling	灰椋鳥		1	+
Gracupica nigricollis	Black-collared Starling	黑領椋鳥		137	+++++
Copsychus saularis	Oriental Magpie Robin	鵲鴝		7	+
Muscicapa latirostris	Asian Brown Flycatcher	北灰鶲		1	+
Phoenicurus auroreus	Daurian Redstart	北紅尾鴝		6	+
Saxicola stejnegeri	Stejneger's Stonechat	黑喉石(即鳥)		4	+
Passer montanus	Eurasian Tree Sparrow	樹麻雀		12	+
Lonchura punctulata	Scaly-breasted Munia	斑文鳥		5	+++++
Motacilla alba	White Wagtail	白鶺鴒		126	+++++
Anthus richardi	Richard's Pipit	理氏鷚		2	+
Anthus godlewskii	Olive-backed Pipit	樹鷚		25	++++
Spinus spinus	Eurasian Siskin	黃雀		0	+

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 wetlanddependent species", which was referenced to Monthly Waterbird Monitoring Biannual Reports prepared by the Hong Kong Bird Watching Society (Anon, 2020).

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

Waterbird Ecological Monitoring Result

Total Bird Abundance from Point Count							
Survey Information				Total Bird A	Abundance Count	from Point	
No.	Date	Time	Tide Level	Individuals Recorded	Total	Species Recorded	
1	3/12/2021	10:00	Н	226	525	33	
•	3/12/2021	14:30	L	299	525	31	
2	10/12/2021	15:30	Н	206	296	28	
2	10/12/2021	11:00	L	180	386	26	
3	17/12/2021	10:00	Н	121	359	28	
3	17/12/2021	14:00	L	238	309	31	
4	23/12/2021	13:30	Н	279	501	30	
4	23/12/2021	10:00	L	242	521	27	
5	21/12/2021	9:30	Н	238	502	35	
5	31/12/2021	14:30	L	264	502	33	

Remarks: H: High Tide; L: Low Tide

Total Waterbird Abundance from Point Count							
	Survey Information			Total Waterbird Abundance from Point Count			
No.	Date Time Tide Level		Individuals Recorded	Total			
		10:00					
1	3/12/2021	10:00	Н	67	140		
		14:30	L	73			
2	10/12/2021	15:30	Н	49	134		
2				11:00	L	85	134
3	17/12/2021	10:00	Н	45	121		
3	17/12/2021	14:00	L	76	121		
4	23/12/2021	13:30	Н	92	154		
4	23/12/2021	10:00	L	62	154		
5	31/12/2021	9:30	Н	94	100		
5	31/12/2021	14:30	L	96	190		
				Overall Total	739		
				Average	148		

Remarks: H: High Tide; L: Low Tide

T-Test Analysis for All Waterbirds

Baseline Data	
Monthly Average Abundance (Dec)	71.33
Seasonal Average Abundance (Winter season)	62.15

<u>T-Test</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 <u>smaller</u> than the critical value, then rejects H_0 .

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

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

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

Analysis fo	or All Waterbirds	Confidence Level (Critical Value)		
		95%	99%	
Abundanaa	Monthly	\checkmark	\checkmark	
Abundance	Seasonal	7.253	\checkmark	\checkmark

Remarks:

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

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

	Abundance of Representative Waterbirds from Point Count										
Represe	entative Spe	cies			Record	ded Abunda	ance			Baseline Data	
Species Name	Common Name	Chinese Name	3/12/2021	10/12/2021	17/12/2021	23/12/2021	31/12/2021	Total	Average	Average (Dec)	Avg (Winter)
Egretta garzetta	Little Egret	小白鷺	22	22	14	22	34	114	23	13	15
Ardea cinerea	Grey Heron	蒼鷺	20	35	18	31	48	152	30	17	13
Ardeola bacchus	Chinese Pond Heron	池鷺	19	28	17	19	19	102	20	9	9
Phalacrocorax carbo	Great Cormorant	普通鸕鷀	31	13	23	23	19	109	22	12	7
Ardea alba	Great Egret	大白鷺	14	7	10	21	23	75	15	6	5
Bubulcus coromandus	Eastern Cattle Egret	牛背鷺	11	7	21	23	19	81	16	6	4

T-test Analysis for Representative Waterbirds from Point Count

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

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 **<u>smaller</u>** than the critical value, then rejects H_0 .

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

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

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

Common Name of	T-value		∟evel (Critical lue)	T-value	Confidence Level (Critical Value)		
Representative Waterbird	Monthly	95%	99%	Seasonal	95%	99%	Overall
Little Egret	3.063	√	√	2.438	\checkmark	√	\checkmark
Grey Heron	4.348	√	√	3.195	\checkmark	√	\checkmark
Chinese Pond Heron	5.879	~	\checkmark	5.879	\checkmark	~	\checkmark
Great Cormorant	3.334	~	√	5.035	\checkmark	✓	√
Great Egret	2.920	✓	✓	3.244	\checkmark	√	\checkmark
Eastern Cattle Egret	3.320	√	√	3.971	\checkmark	√	\checkmark

Remarks:

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

X = 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.



Lam Environmental Services Limited

Appendix 5.6

Photo Record of Ecological Monitoring

Conditions of Rivers



Human Activities & Site Conditions





Human Activities (Ng Tung River)	Construction Activities (Sheung Yue River)	
(Non-project-related, taken on 23 Dec 2021)	(Non-project-related, taken on 31 Dec 2021)	

Waterbird Species





Appendix 5.7

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2021

	Act	ual Quantitie	s of Inert C&D	Materials Ge	nerated Mont	thly	Actu	al Quantities o	of C&D Wastes	Generated M	onthly
		Hard Rock									
N down the	Total	and Large		Reused in				Paper/			Others, e.g.
Month	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	10.034	0.000	0.000	8.257	1.777	0.606	0.000	0.000	0.002	0.000	0.038
Feb	3.703	0.000	0.000	2.871	0.833	0.071	2.120	0.000	0.000	0.000	0.024
Mar	4.644	0.000	0.000	2.190	2.454	0.037	0.000	0.000	0.006	0.000	0.044
Apr	0.211	0.000	0.023	0.000	0.188	0.167	0.000	0.000	0.008	0.000	0.042
May	0.557	0.000	0.218	0.000	0.340	0.190	0.001	0.002	0.008	0.000	0.081
Jun	0.370	0.000	0.023	0.000	0.348	0.119	8.210	0.000	0.000	0.000	0.069
Sub-total	19.519	0.000	0.263	13.317	5.939	1.189	10.331	0.002	0.023	0.000	0.299
Jul	0.592	0.000	0.000	0.000	0.592	0.096	0.000	0.000	0.010	0.000	0.046
Aug	0.567	0.000	0.000	0.000	0.567	0.368	0.002	0.017	0.008	0.000	0.066
Sep	0.184	0.000	0.000	0.000	0.184	0.589	0.000	0.000	0.000	0.000	0.037
Oct	0.230	0.000	0.000	0.000	0.230	0.205	0.001	0.003	0.008	0.000	0.055
Nov	0.685	0.000	0.000	0.000	0.685	0.844	0.000	0.009	0.000	0.000	0.116
Dec	1.612	0.000	0.000	0.000	1.612	0.210	0.000	0.007	0.000	0.000	0.132
Total	23.389	0.000	0.263	13.317	9.809	3.500	10.334	0.038	0.049	0.000	0.751

Notes: 1. Assume the density of soil fill is 2 ton/m3.

2. Assume the density of rock and broken concrete is 2.5 ton/m3.

3. Assume the density of general refuse is 0.9 ton/m3.

4. Assume density of waste oil is assued to be 0.8 kg/L.

5. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.

6. The slurry and bentonite are disposed at Tseung Kwun O 137.

7. The non-inert C&D wastes are disposed at NENT.

Monthly Summary Waste Flow Table for 2021

	Act	ual Quantities	s of Inert C&D	Materials Ge	nerated Mont	thly	Actu	al Quantities o	of C&D Wastes	Generated M	onthly
		Hard Rock									
	Total	and Large		Reused in				Paper/			Others, e.g.
Month	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 '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)					
Jan	0.836	0.000	0.000	0.000	0.836	0.301	21.25	0.000	0.002	0.000	0.006
Feb	0.911	0.000	0.000	0.000	0.911	0.376	39.35	0.000	0.000	0.000	0.007
Mar	0.954	0.000	0.000	0.000	0.954	0.202	0.00	0.000	0.003	0.000	0.016
Apr	0.550	0.000	0.000	0.046	0.504	0.000	0.00	0.000	0.008	0.000	0.009
May	1.368	0.000	0.000	0.149	1.220	0.081	0.00	0.000	0.008	0.000	0.012
Jun	0.670	0.000	0.000	0.074	0.596	0.000	0.00	0.010	0.000	0.000	0.012
Sub-total	5.290	0.000	0.000	0.269	5.021	0.961	60.60	0.010	0.020	0.000	0.062
Jul	2.818	0.000	0.000	0.058	2.760	0.000	0.00	0.000	0.010	0.000	0.011
Aug	5.061	0.000	0.000	0.000	5.061	0.021	27.13	0.013	0.014	0.000	0.010
Sep	4.093	0.000	0.000	0.000	4.093	0.152	38.40	0.000	0.000	0.000	0.009
Oct	1.653	0.000	0.000	0.305	1.349	0.023	0.000	0.006	0.008	0.000	0.014
Nov	4.843	0.000	0.000	1.738	3.105	0.000	1.51	0.002	0.000	0.000	0.006
Dec	3.586	0.000	0.000	0.410	3.175	0.000	0.00	0.006	0.000	0.000	0.014
Total	27.343	0.000	0.000	2.779	24.564	1.158	127.64	0.036	0.052	0.000	0.127

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 2021 (year)

		Actual Quantiti	es of Inert C&D I	Vaterials Genera	ated Monthly		Ac	tual Quantities of	C&D Wastes G	enerated Month	ly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	9.53 T	0	0	0	9.53 T	0	0	0	0	0	0
Feb	3.47T	0	0	0	3.47 T	0	0	0	0	0	0
Mar	14.79T	0	0	0	14.79T	0	0	0	0	0	0
Apr	7.21T	0	0	0	7.21T	0	0	0	0	0	0
May	11.34T	0	0	0	11.34T	0	0	0	0	0	0
June	328.08T	0	0	0	328.08T	0	0	0	0	0	0
Sub- total	374.42T	0	0	0	374.42T	0	0	0	0	0	0
July	579.34T	0	0	0	579.34T	0	0	0.131	0.007	0	0
Aug	64.14T	0	0	0	64.14T	0	0	0.11	0	0	6.13T
Sept	39.42T	0	0	0	39.42T	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0
Nov	98.65T	0	0	0	98.65T	0	16.4	0.11	0.005	0	0
Dec	93.19T	0	0	0	93.19T	0	0	0	0	0	6.1T
Total	1249.16T	0	0	0	1249.16T	0	16.4	0.351	0.012	0	12.23T

Monthly Summary Waste Flow Table for 2021 (year)

		Actual Quanti	ties of Inert C&D	Materials Generate	ed Monthly			Actual Quantities of	C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan	230.16	0	0	0	230.16	0	0	0	0	0	1.54
Feb	175.98	0	100	0	75.98	0	0	0	0	0	3.63
Mar	11.98	0	0	0	11.98	0	0	0	0	0	1.35
Apr	0	0	0	0	0	0	0	0	0	0	1.48
May	0	0	0	0	0	0	0	0	0	0	3.25
June	0	0	0	0	0	0	0	0	0	0	2.01
Sub-total	418.12	0	100	0	318.12	0	0	0	0	0	13.26
July	0	0	0	0	0	0	0	0	0	0	4.21
Aug	0	0	0	0	0	0	0	0	0	0	1.09
Sept	4.24	0	0	0	4.24	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	3.06
Dec	0	0	0	0	0	0	0	0	0	0	0
Total	422.36	0	100	0	322.36	0	0	0	0	0	21.62



Appendix 6.1

Event and Action Plans



Event and Action Plan

Event and Action Plan for Construction Noise

Front		Act	ion	
Event	ET	IEC	ER	Contractor
Action Level exceeded	 Notify IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness; 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. 	 Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.
Limit Level exceeded	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Event and Action Plan for Construction Dust Monitoring

Friend		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. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify the Contractor.	 Rectify any unacceptable practices. Amend working methods agreed with the ER as appropriate.
Action level being exceeded by two or more consecutive sampling	 Identify sources. Inform the IEC and ER. Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings. Increase monitoring frequency to daily. Discuss with the IEC, ER and Contractor on remedial action required. If exceedance continues, arrange meeting with the IEC, Contractor and ER. If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit Level	monitoning.			<u> </u>
Limit level being exceeded by one sampling	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform Contractor, IEC, ER, and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.



Event		Actio	on	
Event	ET	IEC	ER	Contractor
Limit level being exceeded by two or more	ER informed of the results. 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings;	1. Discuss amongst ER, ET, and Contractor on the potential remedial	 Confirm receipt of notification of exceedance in writing; Notify Contractor: 	1. Take immediate action to avoid further exceedance;
consecutive sampling	 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. 	 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. 	 Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Appendix 6.2

Summary of Notification of Exceedance



Summary for Notification of Exceedance

Reporting Month: December

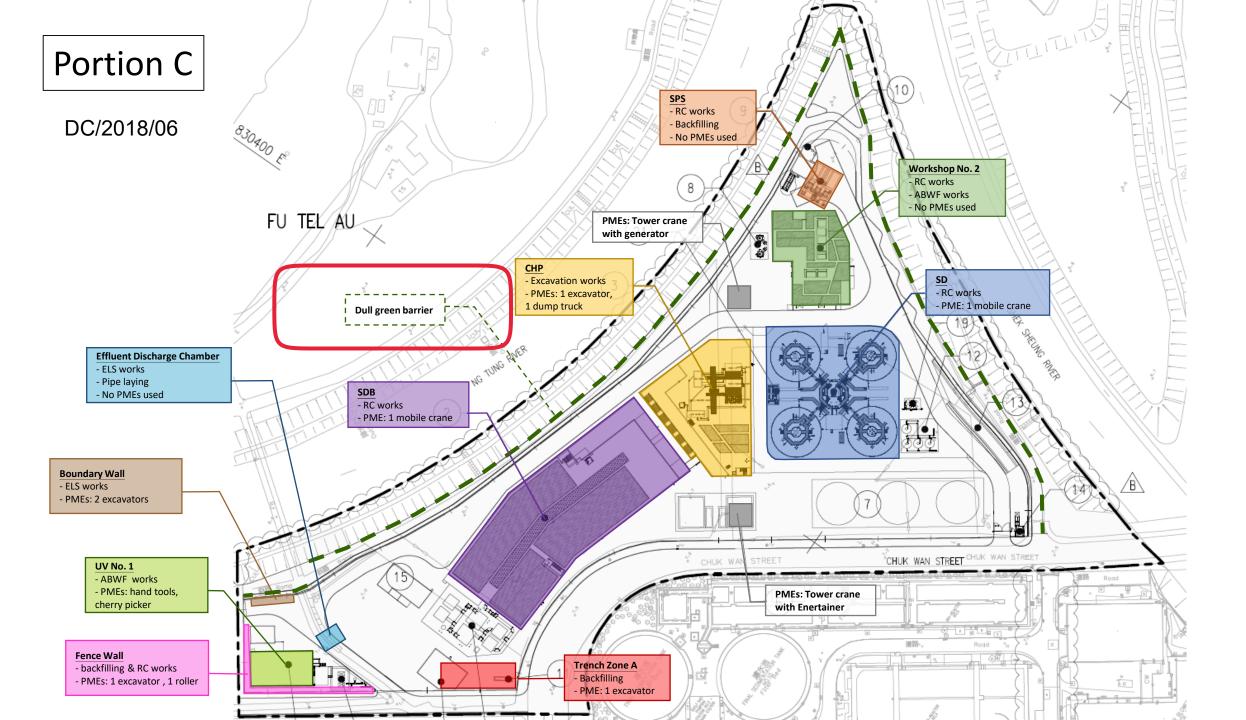
	Ref No.	Date	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up Action
Ē	-	-	-	-	-	-	-	-

Ref. No.	Date	Time	Location	Construction Noise Level	Parameter	Action Level	Limit Level	Follow-up action
-	-	-	-	-	-	-	-	-



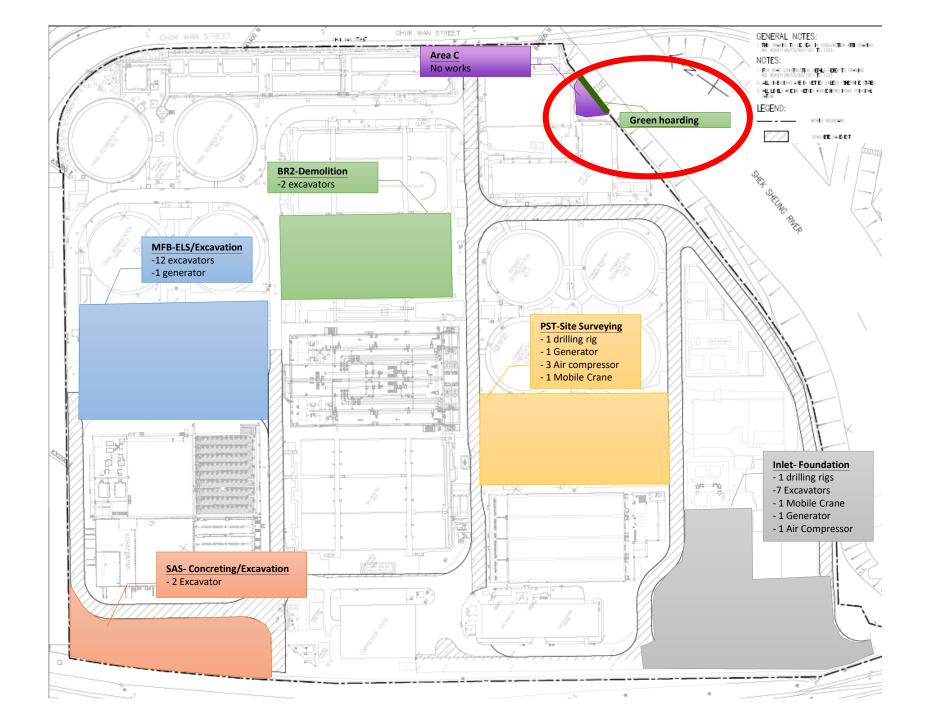
Appendix 7.1

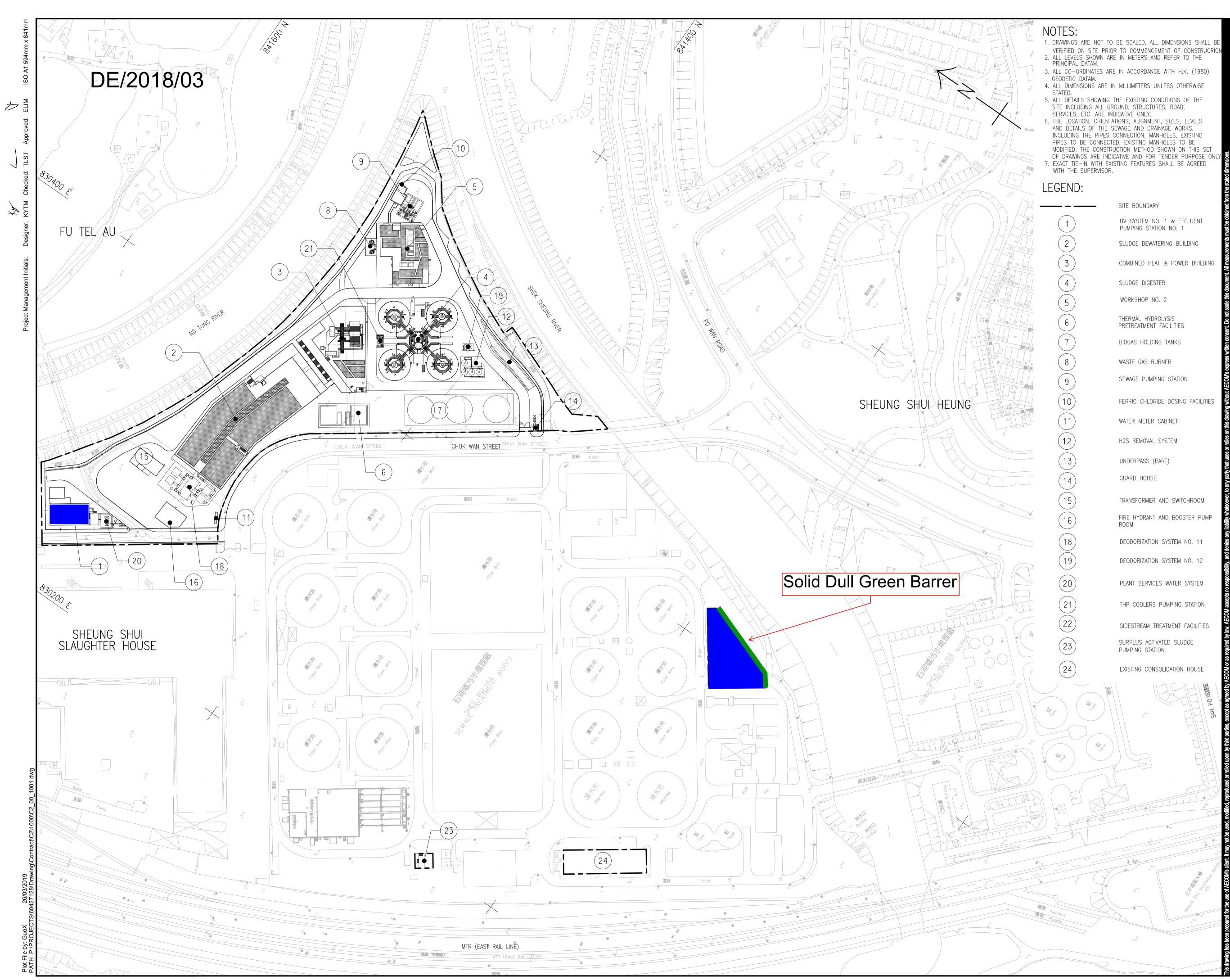
Details and Conditions of Site Barrier



Portion B

DC/2018/07





KYTM



PROJECT ^{項目}

SHEK WU HUI EFFLUENT POLISHING PLANT

CONTRACT TITLE

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

CLIENT 業主



Drainage Services Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程順間公司

ISSUE/REVISION 條訂

ST	ATUS		
//R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	MAR. 19	TENDER DRAWING	TLST
			6

階段

SCALE 比例

DIMENSION UNIT ^{尺寸單位}

A1 1:1000

METRES

KEY PLAN _{索引圖}

PROJECT NO. 項目編號

CONTRACT NO. 合約編號

60427128

DE/2018/03

SHEET TITLE 圖紙名稱

SHEK WU HUI EFFLUENT POLISHING PLANT GENERAL LAYOUT PLAN

SHEET NUMBER 圖紙編號

60427128/C2/00/1001



Details & conditions of site barrier



The site barrier next to Ng Tung River is still under modification and will be kept in review.



DC/2018/07





DE/2018/03



The site barrier next to Shek Sheung River (Sidestream) is completed



Appendix 7.2

Dust and Noise Mitigation Measures



Implementation of dust and noise mitigation measures





Noise mitigation measures



The breaking tips are covered with acoustic canvas



Appendix 8.1

Complaint Log



Appendix 8.1 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 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	
	10 Echruory				 Conducted regular visual checking against emission quality of exhaust pipe of equipment by using the Ringlemann Chart 	
2	19 February 2021	EPD	SWHEPP	Odour nuisance	- Used ULSD for diesel-powered equipment	Closed
2021				- 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	



Environmental Team (2021 – 2024) for Shek Wu Hui Effluent Polishing Plant – Main Works

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	



Appendix 9.1

Construction Programme of Individual Contracts

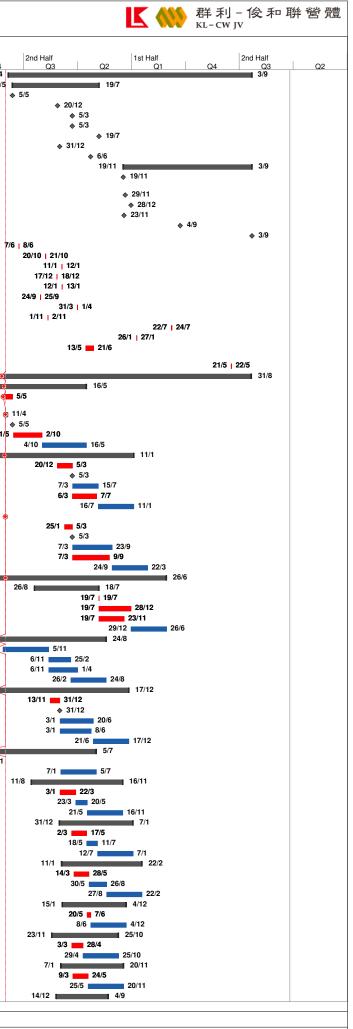
Contract No.: DC/2018/06 Contract Title: Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - Civil Works for Sludge Treatment Facilities and 132kV Primary Substation

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

Activity	ID k	KU Ta	sk Name	Inclement Weather CE no (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start A	ctual Finish	ı otal Slacl	k Predecessors		% Time Comple Risk Allowan	2nd Half	02	1st Half	01
PD-0000 PKD-000			nned Completion - Key Date (cal. day)			1238 days	Thu 15/4/21	Tue 3/9/24	NA		-55 days			0%	Q3	2	Q1 (Q4 15/4
PKD-000 PKD-010		KD1A	Planned Completion - Key Dates KD1A			440 days 0 days	Wed 5/5/21 Wed 5/5/21	Tue 19/7/22 Wed 5/5/21	NA NA	NA NA	-21 days -17 days	250FF		0% 0%				5/5
PKD-020	00 K	KD2A	KD2A			0 days	Mon 20/12/21	Mon 20/12/21	NA	NA	-96 days	556FF,559FF		0%				
PKD-030 PKD-040		KD3A KD3B	KD3A KD3B			0 days 0 days	Sat 5/3/22 Sat 5/3/22	Sat 5/3/22 Sat 5/3/22	NA	NA	-87 days -99 days			0% 0%				
PKD-050		KD3C	KD3C			0 days	Tue 19/7/22	Tue 19/7/22	NA	NA	-188 days			0%				
PKD-060 PKD-070		KD3D	KD3D			0 days	Fri 31/12/21	Fri 31/12/21	NA		,			0%				
PCD-000	00 *		KD3E Planned Completion - Section of the Works (cal. day)			0 days 522 days	Mon 6/6/22 Sat 19/11/22	Mon 6/6/22 Tue 3/9/24	NA		-356 days	362FF,369FF,376FF,383		0% 0%				
PCD-010	00 S	SW1	Section 1 of Works			0 days	Sat 19/11/22	Sat 19/11/22	NA	NA	-356 days	447FF,483FF,491FF,510)FI	0%				
PCD-020		SW2	Section 2 of Works			0 days	Tue 29/11/22		NA	NA	,		51500	0%				
PCD-030 PCD-040		SW3 SW4	Section 3 of Works Section 4 of Works			0 days 0 days		Wed 28/12/22 Wed 23/11/22	NA	NA	-23 days -172 days	171FF,317FF,331FF,349 390FF,396FF,401FF,448		0% 0%				
PCD-050		SW5	Section 5 of Works			0 days	Mon 4/9/23	Mon 4/9/23	NA	NA	0 days	252FF,277FF,299FF,319		0%				
PCD-060			Defect Liability Period	(404)		365 days	Tue 5/9/23	Tue 3/9/24	NA	NA	141 days	48		0%				7/6
	01020 K 01020 K		Delay and Disruption of Works for the month of Mar 2021 Delay and Disruption of Works for the month of Mar 2021	(181) (181)		2 days 2 days	Mon 7/6/21 Wed 20/10/21	Tue 8/6/21 Thu 21/10/21	NA	NA NA	-43 days -43 days	53 59		0% 0%				1/0
	01020 K		Delay and Disruption of Works for the month of Mar 2021	(181)		2 days	Tue 11/1/22	Wed 12/1/22	NA	NA	-26 days	65		0%				
IWKD3B	01020 K -01020 K		Delay and Disruption of Works for the month of Mar 2021 Delay and Disruption of Works for the month of Mar 2021	(181) (181)		2 days 2 days	Fri 17/12/21 Wed 12/1/22	Sat 18/12/21 Thu 13/1/22	NA	NA NA	-16 days -37 days	71 76		0% 0%				
IWKD3C			Delay and Disruption of Works for the month of Mar 2021	(181)		2 days 2 days	Fri 24/9/21	Sat 25/9/21	NA	NA	-37 days			0%				
IWKD3E	01020 K	KD3E	Delay and Disruption of Works for the month of Mar 2021	(181)		2 days	Thu 31/3/22	Fri 1/4/22	NA	NA	-37 days	86		0%				
IWSW1-			Delay and Disruption of Works for the month of Mar 2021	(181)		2 days		Tue 2/11/21	NA	NA	-43 days	91		0%				
IWSW2-I		SW2 SW3	Delay and Disruption of Works for the month of Mar 2021 Delay and Disruption of Works for the month of Mar 2021	(181) (181)		2 days 2 days	Sat 22/7/23 Thu 26/1/23	Mon 24/7/23 Fri 27/1/23	NA	NA	-43 days -43 days	97 103		0% 0%				
IWSW4-			Delay and Disruption of Works before Mar 2021	257, (69), (92),		33 days	Fri 13/5/22	Tue 21/6/22	NA	NA	-43 days	113	110	0%				
IWSW5-)1020 S	SW5	Delay and Disruption of Works for the month of Mar 2021	(112), (165) (181)		2 days	Tue 21/5/24	Wed 22/5/24	NA	NA	-43 days	115		0%				
CWPC-0	0000 *		struction Works of Portion C of the Site			1463 days	Mon 16/9/19	Sat 31/8/24	Mon 16/9/19	NA	0 days			18%		6/9		
6 CUV1-00 7 CUV1-09		KD1A	JV System No. 1 & Effluent Pumping Station No. 1 (1) Walls, Slabs and staircase Construction @+7.4mPD to 16.4mPD		(108), (146), (148), (179), (182)	787 days 35 days	Mon 16/9/19 Sat 20/3/21	Mon 16/5/22 Wed 5/5/21	Mon 16/9/19 Sat 20/3/21	NA NA	389 days -17 days	244	250,251,249	61% 0%	1	6/9	20	0/3
8 CUV1-10		KD1A	[Additional SP1-3 puddle (DN100 x 2 & DN80) Construction of Switch room			20 days	Tue 23/3/21	Sun 11/4/21	Tue 23/3/21	NA	3 days			50%			97	3/3 0 1
CUV1-10		KD1A	Allow access to Contarctor DE/2018/03 for E&M Installation			0 days	Wed 5/5/21	Wed 5/5/21	NA	NA	-17 days	247	36FF	0%			25	5/5 0 1
I CUV1-12		SW1	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining		(95)	120 days	Tue 11/5/21	Sat 2/10/21	NA	NA	-20 days		252,44FF	0%				11/5 📕
2 CUV1-13 8 CSDC-0		SW5	Surrounding Site formation works and road works Sludge Digesters and Distribution Chamber (4)			180 days 916 days	Mon 4/10/21 Sat 7/12/19	Mon 16/5/22 Wed 11/1/23	NA Sat 7/12/19	NA NA		251	48FF	0% 36%		7/12		
CSDC-0		KD3A	Construction of Roof Slab			60 days	Mon 20/12/21	Sat 5/3/22	Sat 7/12/19 NA	NA	191 days -87 days	269	272,275,273,274,	0%		112		----
CSDC-1		KD3A	Allow access to Contarctor DE/2018/03 for E&M Installation			0 days	Sat 5/3/22	Sat 5/3/22	NA	NA	-87 days		38FF	0%				
CSDC-1		SW3	ABWF Works & BS Works		(173)	105 days	Mon 7/3/22	Fri 15/7/22	NA	NA	114 days		277	0%				
6 CSDC-1 7 CSDC-1		SW4 SW5	Surrounding sewerage, utility and process pipe works Surrounding Site formation works and road works			124 days 180 days	Sun 6/3/22 Sat 16/7/22	Thu 7/7/22 Wed 11/1/23	NA	NA	-70 days 236 days	270 275	47FF 48FF	0% 0%				
CSDB-0			Sludge Dewatering Building (2)			875 days	Tue 26/11/19	Wed 9/11/22	Tue 26/11/19		242 days	2.10	1011	39%				
CSDB-1		KD3B	Roof Construction @ +25.65mPD			32 days	Tue 25/1/22	Sat 5/3/22	NA		-119 days		416,295,387,298,	0%				
CSDB-12 CSDB-14		KD3B SW3	Allow access to Contarctor DE/2018/03 for E&M Installation		(05) (172)	0 days 164 days	Sat 5/3/22 Mon 7/3/22	Sat 5/3/22 Fri 23/9/22	NA NA	NA NA	-99 days	294 290,208,135	39FF 299	0% 0%				
7 CSDB-14 8 CSDB-14		SW4	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining Surrounding sewerage, utility and process pipe works		(95), (173)	153 days	Mon 7/3/22	Fri 9/9/22	NA	NA	55 days -111 days		47FF	0%				
9 CSDB-1	6000 S	SW5	Surrounding Site formation works and road works			180 days	Sat 24/9/22	Wed 22/3/23	NA	NA	166 days	297	48FF	0%				
CHPB-0 CHPB-0		KD3C	Combined Heat Power Building (3) R.C. Structure			1046 days 263 days	Tue 10/12/19 Thu 26/8/21	Mon 26/6/23 Mon 18/7/22	Tue 10/12/19 NA		59 days	205,206,133,307,204,308	C 246 247 245	13% 0% 10		10/12	2	2
5 CHPB-09		KD3C	Allow access to Contarctor DE/2018/03 for E&M Installation			1 day	Tue 19/7/22	Tue 19/7/22	NA	NA	-188 days		40FF	0%				
7 CHPB-1		SW3	ABWF Works & BS Works		(95), (173)	135 days	Tue 19/7/22	Wed 28/12/22	NA	NA	-23 days	309,208,135	319,46FF	0%				
B CHPB-1 9 CHPB-12		SW4 SW5	Surrounding sewerage, utility and process pipe works Surrounding Site formation works and road works			107 days 180 days	Tue 19/7/22 Thu 29/12/22	Wed 23/11/22 Mon 26/6/23	NA		-172 days 70 days		47FF 48FF	0% 0%				
CSPS-00			Sewage Pumping Station (9)			821 days	Fri 15/11/19	Wed 24/8/22	Fri 15/11/19		305 days	011		16%		15/11	(
CSPS-09		KD3E	R.C. Structure & waterproofing works	(165), (181)	(63)	230 days	Tue 26/1/21	Fri 5/11/21	Tue 26/1/21	NA	50 days			0%			26/1 🥐	•
1 CSPS-10 2 CSPS-10		SW3 SW4	ABWF Works & BS Works & Apply Internal Anti-corrosion Protective Lining Surrounding sewerage, utility and process pipe works]		90 days 120 days	Sat 6/11/21 Sat 6/11/21	Fri 25/2/22 Fri 1/4/22	NA	NA	226 days 191 days		333,46FF 47FF	0% 3 0%				
2 CSPS-10 3 CSPS-11		SW5	Surrounding Site formation works and road works			120 days 180 days	Sat 6/11/21 Sat 26/2/22	Wed 24/8/22	NA		376 days		47FF 48FF	0%				
4 CWS2-0	* 0000	• •	Vorkshop No. 2 (5)			884 days	Tue 24/12/19	Sat 17/12/22	Tue 24/12/19	NA	209 days			14%		24/1:	2	
6 CWS2-0		KD3D	Roof Construction @+19.00mPD			40 days		Fri 31/12/21	NA		-118 days		348,349,347,404,					
7 CWS2-0 9 CWS2-1		KD3D SW3	Allow access to Contarctor DE/2018/03 for E&M Installation ABWF Works & BS Works		(95), (173)	0 days 135 days	Fri 31/12/21 Mon 3/1/22	Fri 31/12/21 Mon 20/6/22	NA NA	NA NA	-118 days 135 days	346 208,135,346	41FF 351,46FF	0% 0%				
0 CWS2-1	1500 S	SW4	Surrounding sewerage, utility and process pipe works			125 days	Mon 3/1/22	Wed 8/6/22	NA	NA	140 days		47FF	0%				
1 CWS2-1		SW5	Surrounding Site formation works and road works			180 days		Sat 17/12/22	NA		261 days	349	48FF	0%			·	
2 CTHP-00 2 CTHP-09		KD3E	Thermal Hydrolysis Pretreatment (6) R.C. Plinth	(165), (181)	225, (115)	749 days 0 days	Thu 19/12/19 Mon 2/11/20	Tue 5/7/22 Sat 28/11/20	Thu 19/12/19 Mon 2/11/20	NA Sat 28/11/20	348 days 0 days	360,265,361SS-2 emons	363 42FF	35% 100%		19/12	2 2/11 2/21	8/11
2 CTHP-03 3 CTHP-10		SW5	Surrounding Site formation works and road works	(100), (101)		180 days	Fri 7/1/22	Tue 5/7/22	NA	Sat 20/11/20 NA	426 days		48FF	0%			2/11 🔤 20	
4 CFCD-0			erric Chloride Dosing Facilities (10)			377 days	Wed 11/8/21	Wed 16/11/22	NA	NA				0%				11
9 CFCD-04 0 CFCD-05		KD3E SW3	Steel Roof Structure (On-site Fabrication) ABWF Works & BS Works			65 days	Mon 3/1/22 Wed 23/3/22	Tue 22/3/22 Fri 20/5/22	NA	NA	-30 days 160 days		370,42FF 371,46FF	0% 0%				
CFCD-0		SW5	Surrounding Site formation works and road works			45 days 180 days	Sat 21/5/22	Wed 16/11/22	NA		292 days		48FF	0%				
2 CFHB-0	0000 *		Fire Hydrant and Booster Pump Room (16)			302 days	Fri 31/12/21	Sat 7/1/23	NA		-83 days			0%				
6 CFHB-03		KD3E	R.C. Structure & waterproofing works			60 days	Wed 2/3/22	Tue 17/5/22	NA	NA	-103 days		377,42FF,478,47	0% 5 0%				
7 CFHB-04 3 CFHB-05		SW3 SW5	ABWF Works & BS Works Surrounding Site formation works and road works			45 days 180 days	Wed 18/5/22 Tue 12/7/22	Mon 11/7/22 Sat 7/1/23	NA	NA	240 days	376,208,135 377	378,46FF 48FF	0%				
CTFS-00			Fransformer and Switchroom (15)			330 days	Tue 11/1/22	Wed 22/2/23	NA		-101 days			0%				
CTFS-03		KD3E	R.C. Structure			60 days	Mon 14/3/22	Sat 28/5/22	NA	NA		381,133,413,204,382SS-						
CTFS-04 CTFS-05		SW3 SW5	ABWF Works & BS Works Surrounding Site formation works and road works		(95)	75 days 180 days	Mon 30/5/22 Sat 27/8/22	Fri 26/8/22 Wed 22/2/23	NA	NA NA	78 days 194 days	383,208,135 384	385,46FF 48FF	0% 0%				
G CWMC-0	0000 *	•	Vater Meter Cabinet (11)		204	263 days	Sat 15/1/22	Sun 4/12/22	NA	NA	9 days			0%				
CWMC-0		SW4	ABWF Works & BS Works			15 days	Fri 20/5/22	Tue 7/6/22	NA	NA			391,47FF	0%				
1 CWMC-0 2 CGH-00		SW5	Surrounding Site formation works and road works Guard House (14)			180 days 272 days	Wed 8/6/22 Tue 23/11/21	Sun 4/12/22 Tue 25/10/22	NA NA	NA NA	274 days 29 days	390	48FF	0% 0%				
6 CGH-03		SW4	ABWF Works & BS Works		(95)	45 days	Thu 3/3/22	Thu 28/4/22	NA	NA	0 days	395,208,135	397,47FF	0%				
CGH-04		SW5	Surrounding Site formation works and road works			180 days	Fri 29/4/22	Tue 25/10/22	NA		314 days	396	48FF	0%				
CCPS-0			CHP Coolers Pumping Station (21) R.C. Structure			258 days 60 days	Fri 7/1/22 Wed 9/3/22	Sun 20/11/22 Tue 24/5/22	NA NA	NA NA	-11 days -20 days	399,133,204,400SS-2 en	no 402,47FF	0% 0% 5				
_	2000 9	SW4						·				,		- /				
CCPS-02 CCPS-03		SW4 SW5	Surrounding Site formation works and road works			180 days	Wed 25/5/22	Sun 20/11/22	NA	NA	288 days	401	48FF	0%				

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C	Activity ID	KD	ask Name	Inclement Weather CE no. (NCE no.)	PMI & CE no. (NCE no.)	Duration	Start	Finish	Actual Start	Actual Finish	Total Slac	k Predecessors	Successors	% Time Comple Risk Allowan 2nd Half Q3	1st Half Q2 Q1	04
407	CWGB-03000	KD3E	R.C. Plinth			20 days	Mon 14/2/22	Tue 8/3/22	NA	A N	A -38 days	405,133,406SS-2 emons	437,408,42FF	0%		Q4
408	CWGB-04000	SW5	Surrounding Site formation works and road works			180 days	Wed 9/3/22	Sun 4/9/22	NA	A N	A 365 days	407	48FF	0%		
409	CPSW-00000	*	Plant Services Water System (20)			205 days	Mon 21/12/20	Wed 1/9/21	Mon 21/12/20	0 N.	A 594 days			14%		21/12
	CPSW-03000	KD3E	Basement Construction @+1.20mPD		(136), (117)	0 days	Tue 26/1/21	Fri 5/3/21	Tue 26/1/2	1 Fri 5/3/2	1 0 days	411,133,412SS-2 emons	383,414,42FF	100%		26/1
414	CPSW-04000	SW5	Surrounding Site formation works and road works			180 days	Sat 6/3/21	Wed 1/9/21	N/	A N			48FF	0%		6/3 🤞
415	CDS11-00000	*	Deodorization System No. 11 (18)			234 days	Tue 22/2/22	Sat 3/12/22	N/	A NA	A -108 days			0%		
	CDS11-03000		R.C. Plinth			34 days	Mon 25/4/22	Mon 6/6/22	NA							
	CDS11-04000		Surrounding Site formation works and road works			180 days	Tue 7/6/22	Sat 3/12/22	NA			419	48FF	0%		
	CBGH-00000	*	Biogas Holder (7)			248 days	Tue 31/8/21	Tue 5/7/22	N/	· · · ·				0%		
	CBGH-03000	KD3E	R.C. Plinth			55 days	Mon 1/11/21	Thu 6/1/22	NA			423,133,424SS-2 emons				
	CBGH-04000	SW5	Surrounding Site formation works and road works			180 days	Fri 7/1/22	Tue 5/7/22	NA	1	. into dayo	425	48FF,363SS	0%		
	CH2S-00000	*	H2S Removal System (12)			235 days	Tue 28/9/21	Sat 16/7/22	N/		A -15 days	100 10000 0	100 1055 000 10	0%		
	CH2S-03000	KD3E	R.C. Plinth			40 days	Mon 29/11/21		N/				432,42FF,399,43			
	CH2S-04000	SW5	Surrounding Site formation works and road works			180 days	Tue 18/1/22	Sat 16/7/22	NA NA			431	48FF	0%		
	CDS12-00000	KD2E	Deodorization System No. 12 (19)			217 days	Tue 4/1/22	Tue 27/9/22		· · · ·		105 100 107 10000 0	400 4055	0%		
	CDS12-03000 CDS12-04000		R.C. Plinth			20 days	Wed 9/3/22 Fri 1/4/22	Thu 31/3/22 Tue 27/9/22	NA NA		. oo aayo	435,133,407,436SS-2 emo 437	438,42FF 48FF	0%		
	CUPH-00000	\$	Surrounding Site formation works and road works Underpass & Pump House		332	180 days	Mon 16/9/19	Mon 16/9/19	NA			437	40FF	0%	● 16/9	
	CPWU-00000	*	Pipe Works and Utility Installation		332	0 days 1407 days	Fri 22/11/19	Sat 31/8/24	Fri 22/11/19					11%	22/11	
	CPWU-00000	KD1A	Stage 1 - Backfilling Works for Drainage Diversion			9 days	Tue 28/4/20	Wed 6/5/20	Tue 28/4/20				229	100%	28/4 6/5	
	CPWU-01140		Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Culvert (1 Cell,	(181)		60 days	Thu 4/3/21	Tue 18/5/21	Thu 4/3/2			241	447	40%		4/3
447	CPWU-01150	SW1	1000mm x 1150mm) within Portion C-1A & C-1B - Part 1 Stage 2 - Drainage Diversion of Drainage b/w MHD26 and SMHH1003177A, to Abandon of Exisitng Drainage Culvert (1 Cell,			60 days	Thu 20/5/21	Fri 30/7/21	NA	A N	A 33 days	446	44FF	0%		
			1000mm x 1150mm) outside Portion C-1A & C-1B - Part 2													
448	CPWU-01200	SW4	Trenchless Work for Pipe Installation			309 days	Sat 13/6/20	Tue 29/6/21	Sat 13/6/20	D NA	,-		47FF	64%	13/6	
	CPWU-01020	SW5	Surrounding Site formation works and road works			180 days		Thu 18/5/23	NA			470,478,479,480,481,482	48FF	0%		
	CPWU-02111	SW1	Effluent Pipe(approx. 70m, dia 300-1600)			524 days	Wed 15/7/20							79%	15/7	
	CPWU-02120	SW4	Remaining Effluent Pipes & testing works			89 days	Tue 19/7/22	Wed 2/11/22	N/					0%		
	CPWU-02130	SW4	Stormdrain Pipeworks & testing works		210	89 days	Tue 19/7/22	Wed 2/11/22	N/					0%		
	CPWU-02140	SW4	Sewerage Pipeworks, manhole, protective lining & testing works			89 days	Tue 19/7/22	Wed 2/11/22	NA NA			138,288,341,194,271,294,		0%		
	CPWU-02150		Watermain Pipeworks & testing works Cable & Other Underground Utility Pipeworks		205, 206, 207, 216, 219, 220, 221, 221-1, 222	89 days 434 days	Tue 19/7/22 Mon 7/6/21	Wed 2/11/22 Sat 19/11/22	NA				24/FF,4/1 471	0%		
-	CPWU-02160	SW4 SW1	Portion C1-B. Area 1			139 days	Mon 7/6/21	Sat 19/11/22 Sat 20/11/21	NA				47T	0%		
	CPWU-02161g		Road works (footpath 25m)			25 days	Sat 23/10/21	Sat 20/11/21 Sat 20/11/21	N/				4467	0%		
	CPWU-02161g		Portion C1-1B, Area 2			250 days 250 days	Thu 24/6/21	Wed 27/4/22	NA		,.		44FF	0%		
	CPWU-02162j4		Road works (footpath & carriageway)			45 days	Sat 22/1/22	Fri 18/3/22	NA				511FS-60 days	0%		
	CPWU-02162j4	SW1	Portion C1-1B, Area 3			260 days	Wed 5/1/22	Sat 19/11/22	NA				44FF	0%		
	CPWU-02163f		Road Works (footpath & carriageway)			30 days		Sat 19/11/22	NA			515		0%		
	CPWU-02200	SW4	Pipe Bridge No.1			175 days	Mon 2/8/21	Thu 3/3/22	N/			2	47FF	0%		
	CRWL-00000	*	Remaining Works & Landscape Works			891 days	Sat 21/8/21	Sat 31/8/24	NA		. maayo	-		0%		
	CRWL-01000	SW5	Irrigation System		218	600 days	Sat 21/8/21	Wed 30/8/23	Né			141	48FF	0%		
	CRWL-02000	SW5	Hard Landscape Works			600 days	Sat 21/8/21	Wed 30/8/23	NA			141	48FF	0%		
	CRWL-03000	SW5	Soft Landscape Works			600 days	Sat 21/8/21	Wed 30/8/23	NA			141	527,48FF	0%		
	CRWL-04000	SW5	Outfall for Effluent Pipes			124 days	Tue 1/11/22	Fri 31/3/23	NA				48FF	0%		
	CRWL-05000	SW5	Slope Formation Works near Outfall			124 days	Tue 1/11/22	Fri 31/3/23	NA				48FF	0%		
	CRWL-06000	SW5	Removal of invasive trees along River Embankment		(37)	90 days	Tue 1/11/22	Mon 20/2/23	NA		,	180	525	0%		
	CRWL-07000	SW5	Retaining Wall along River Embankment, street furniture & road works			90 days	Tue 21/2/23	Mon 12/6/23	NA			180,524	48FF	0%		
	CRWL-08000	SW5	Remaining Site formation works, road works and boundary fence wall			250 days	Thu 29/12/22		NA			46	48FF	0%		
	CWPA-00000		Construction of Portion A of the Site			891 days		Tue 29/11/22						42%	27/11	
	C132S-00000	*	132kV Substation			891 days		Tue 29/11/22						42%	27/11	
559	C132SI-31000	KD2A	Handover to CLP for Electrical System Installation			7 days	Mon 13/12/21	Mon 20/12/21	NA	A N		557,558	560,37FF	0%		
561	C132SI-33000	SW2	Inspection and Handover to CLP			30 days	Thu 5/5/22	Fri 10/6/22	NA	A N	A 144 days	560	578,45FF	0%		
	C132SE-03000	014/0	Construction of New Boundary Wall		(155)	143 days	Sat 11/6/22	Tue 29/11/22	NA			561,577	45FF	0%		

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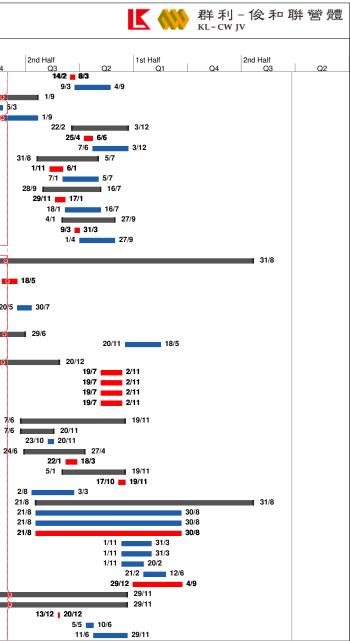
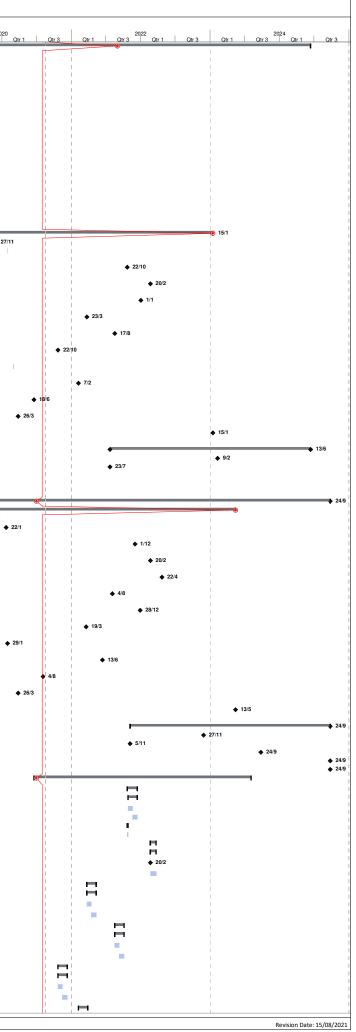
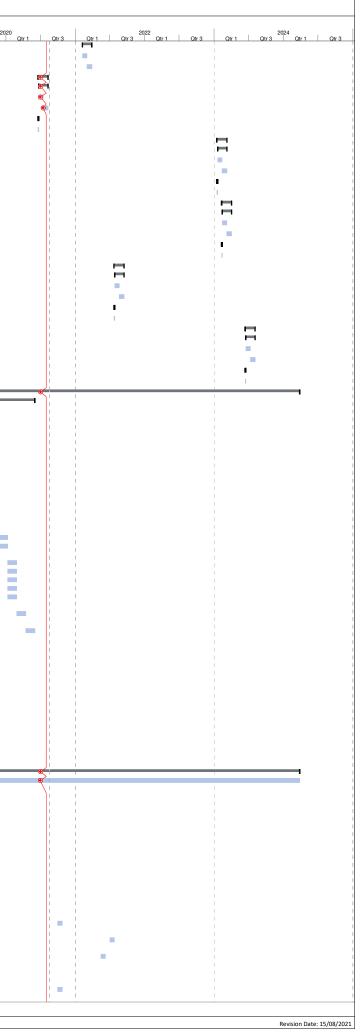


Image Image <th< th=""><th>Shek Wu Hui Effluent Polishin</th><th></th><th></th><th>D 1 -</th><th>la</th><th></th><th></th><th></th><th></th><th></th><th>Works Programme (Status Date: 31/07/2021)</th><th></th><th>7.10</th><th></th><th></th><th></th></th<>	Shek Wu Hui Effluent Polishin			D 1 -	la						Works Programme (Status Date: 31/07/2021)		7.10			
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	ID Activity ID Key Date	V V	Veather (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	Actual Start A	Actual Finish Predecessors	Successors	Total Slack Risk Allowance	% Complete		
No. No. <th>1 CD 1000</th> <th>(1</th> <th>JE no. NCE no.)</th> <th>1595 dava</th> <th>Map 19/11/10</th> <th>Thu: 07/2/25</th> <th>1651 E dovo</th> <th>Map 19/11/10</th> <th>E-i 12/6/25</th> <th>Map 19/11/10</th> <th></th> <th></th> <th>99 E dava</th> <th>0%</th> <th>Otr 3 Otr 1</th> <th>2020 Qtr 3 (</th>	1 CD 1000	(1	JE no. NCE no.)	1595 dava	Map 19/11/10	Thu: 07/2/25	1651 E dovo	Map 19/11/10	E-i 12/6/25	Map 19/11/10			99 E dava	0%	Otr 3 Otr 1	2020 Qtr 3 (
No. <							-					8,9,13FS+290 days,14FS+311 d		100%		
C C							-					201	· ·		10/1	-
0 0												201			•	
No. No. <td>6 CAD-1030</td> <td>Others Portion B-2 (Inlet Works No.1)</td> <td></td> <td>0 davs</td> <td>Mon 18/11/19</td> <td>Mon 18/11/19</td> <td>0 davs</td> <td>Fri 10/1/20</td> <td>Fri 10/1/20</td> <td>Fri 10/1/20</td> <td>Fri 10/1/20 2</td> <td>295.306</td> <td>0 davs</td> <td>100%</td> <td>♦ 10/1</td> <td></td>	6 CAD-1030	Others Portion B-2 (Inlet Works No.1)		0 davs	Mon 18/11/19	Mon 18/11/19	0 davs	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20 2	295.306	0 davs	100%	♦ 10/1	
Normal Normal<		Portion B-2A (Area for the pipe-jacking works by others)		0 days			0 days	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20	Fri 10/1/20 2		0 days	100%	•	
Image Image <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																
Norm Norm Norm Norm N		Portion B-5 (Membrane Facilities Building No.2)					0 days								17/3	
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>																
Norma Norma <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>♦ 2/9</td></t<>																♦ 2/9
Nome Nome Nome No No No No		Portion B-8A (Alternation of air supply main for existing Air Blower House														2010
No. No. <td>16 CAD-1130</td> <td></td> <td></td> <td>0 days</td> <td>Mon 18/11/19</td> <td>Mon 18/11/19</td> <td>0 days</td> <td>Mon 18/11/19</td> <td>Mon 18/11/19</td> <td>Mon 18/11/19</td> <td>Mon 18/11/19 2</td> <td>542 556</td> <td>0 days</td> <td>100%</td> <td>▲ 18/11</td> <td></td>	16 CAD-1130			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	
Note Note <th< td=""><td>17 CAD-1140</td><td>Portion B-9A (Area for the pipe-jacking works by others)</td><td></td><td>0 days</td><td>Mon 18/11/19</td><td>Mon 18/11/19</td><td>0 days</td><td>Mon 18/11/19</td><td>Mon 18/11/19</td><td>Mon 18/11/19</td><td>Mon 18/11/19 2</td><td>012,000</td><td>0 days</td><td>100%</td><td>18/11</td><td></td></th<>	17 CAD-1140	Portion B-9A (Area for the pipe-jacking works by others)		0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2	012,000	0 days	100%	18/11	
Description Process of the second secon	18 CAD-1150	Portion B-9B (Area for underground pipework modification and connection works by others)		0 days	Mon 18/11/19	Mon 18/11/19	0 days	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19	Mon 18/11/19 2		0 days	100%	♦ 18/11	
No. 00 No. 00<															•	24/7
Norm Norm <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>♦ 27/11</td></th<>																♦ 27/11
	22 CKD-1020			360 days	Tue 19/11/19	Thu 12/11/20	1 day	Sat 30/1/21	Sat 30/1/21	Sat 30/1/21	Sat 30/1/21 2FS+439.5 days		0 days	100%		I.
Description Openant international probability Part	23 CKD-1030	KD1C completion of civil and structural works of Inlet Works No.1 in Portion		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%	1	
No. No. <td>24 CKD-1040</td> <td></td> <td></td> <td>1190 days</td> <td>Tue 19/11/19</td> <td>Mon 20/2/23</td> <td>0 days</td> <td>Mon 20/2/23</td> <td>Mon 20/2/23</td> <td>NΔ</td> <td>NA 2ES+1191 days</td> <td>70</td> <td>947 days</td> <td>0%</td> <td>1</td> <td></td>	24 CKD-1040			1190 days	Tue 19/11/19	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NΔ	NA 2ES+1191 days	70	947 days	0%	1	
No. No. <td></td> <td>Tanks in Portion B-3 (1190days after starting date)</td> <td></td>		Tanks in Portion B-3 (1190days after starting date)														
No. No. <td>25 CKD-1050</td> <td>KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1140days after starting date)</td> <td></td> <td>1140 days</td> <td>Tue 19/11/19</td> <td>Sun 1/1/23</td> <td>0 days</td> <td>Sun 1/1/23</td> <td>Sun 1/1/23</td> <td>NA</td> <td>NA 2FS+1141 days</td> <td></td> <td>997 days</td> <td>0%</td> <td></td> <td></td>	25 CKD-1050	KD1E completion of civil and structural works of Bioreactor in Portion B-4 (1140days after starting date)		1140 days	Tue 19/11/19	Sun 1/1/23	0 days	Sun 1/1/23	Sun 1/1/23	NA	NA 2FS+1141 days		997 days	0%		
Description	26 CKD-1060	KD1F completion of civil and structural works of MFB from B2 floor to 1st floor level in Portion B-5 (855.5 days after starting date)		800 days	Tue 19/11/19	Wed 26/1/22	0 days	Wed 23/3/22	Wed 23/3/22	NA	NA 2FS+856.5 days	74	1273.5 days	0%		
No. 10.000 No. 10.0000 No. 10	27 CKD-1070	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%		
Image Image <th< td=""><td>28 CKD-1080</td><td></td><td></td><td>630 days</td><td>Tue 19/11/19</td><td>Mon 9/8/21</td><td>0 days</td><td>Fri 22/10/21</td><td>Fri 22/10/21</td><td>NΔ</td><td>NA 2ES+704 5 days</td><td>82</td><td>1425 5 days</td><td>0%</td><td></td><td></td></th<>	28 CKD-1080			630 days	Tue 19/11/19	Mon 9/8/21	0 days	Fri 22/10/21	Fri 22/10/21	NΔ	NA 2ES+704 5 days	82	1425 5 days	0%		
No. No. <td></td> <td>Portion B-6 (703.5 days after starting date)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>		Portion B-6 (703.5 days after starting date)									-		-			
No. No. <td>29 CKD-1090</td> <td>KD11 completion alternation works for existing Power House in Portion B-7A (179days after access date of B-7A)</td> <td></td> <td>150 days</td> <td>Fri 4/9/20</td> <td>Sun 31/1/21</td> <td>1 day</td> <td>Mon 1/3/21</td> <td>Mon 1/3/21</td> <td>Mon 1/3/21</td> <td>Mon 1/3/21 13FS+179 days</td> <td></td> <td>0 days</td> <td>100%</td> <td>1</td> <td>1</td>	29 CKD-1090	KD11 completion alternation works for existing Power House in Portion B-7A (179days after access date of B-7A)		150 days	Fri 4/9/20	Sun 31/1/21	1 day	Mon 1/3/21	Mon 1/3/21	Mon 1/3/21	Mon 1/3/21 13FS+179 days		0 days	100%	1	1
P P	30 CKD-1100	KD1J completion of auxiliary facilites in Portion B-7 (811.5 days after starting date)		800 days	Tue 19/11/19	Wed 26/1/22	0 days	Mon 7/2/22	Mon 7/2/22	NA	NA 2FS+812.5 days	86	1317.5 days	0%	1	
No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	31 CKD-1110	KD2A completion of effluent pipes to UV system and connection to its		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%		
No. No. No. No. No. No. No. No. No. No. No. No.	32 CKD-1120			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 2ES+495 dave		0 days	100%		
No. No. <td></td> <td>No.2 in Portion B-8A (494 days after starting date)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>1</td> <td></td>		No.2 in Portion B-8A (494 days after starting date)									-				1	
Image: sec: sec: sec: sec: sec: sec: sec: se	33 CKD-1130	KD3A completion of all utilities and road works (1519 days after starting date)		1440 days	Tue 19/11/19	Sat 28/10/23	0 days	Mon 15/1/24	Mon 15/1/24	NA	NA 2FS+1520 days	99	606 days	0%		
I D											NA	105		0%		
Image Image <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																
Image Linear control from a contro from a control from a control from a contro from a												39FS+1 day,117,38FS+1 day				
1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																
P P											NA			3%		
Image: And the state of the state	42 PKD-1010 KD1A	KD1A completion of AR3 in Portion B-1 (300days after starting date)		0 days	Sat 12/9/20	Sat 12/9/20	0 days	Wed 30/9/20	Wed 30/9/20	Wed 30/9/20	Wed 30/9/20 210FF		0 days	100%		30/9
Image: Part of the state of the s	43 PCD-1020 KD1B	KD1B completion of utilities diversion for commencement of Inlet Works No.1 in Portion B-2 (360days after starting date)		0 days	Fri 14/8/20	Fri 14/8/20	0 days	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21	Fri 22/1/21 286FF,291FF,273FF		0 days	100%		22
Image Image <	44 PCD-1030 KD1C			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,250F	FF	-40 days	0%		
I No. No. <td>45 PCD-1040 KD1D</td> <td>KD1D completion of civil and structural works of Primary Sedimentation</td> <td></td> <td>0 days</td> <td>Mon 20/2/23</td> <td>Mon 20/2/23</td> <td>0 days</td> <td>Mon 20/2/23</td> <td>Mon 20/2/23</td> <td>NA</td> <td>NA 349FF,348FF,351FF,333FF</td> <td></td> <td>0 days</td> <td>0%</td> <td>1</td> <td></td>	45 PCD-1040 KD1D	KD1D completion of civil and structural works of Primary Sedimentation		0 days	Mon 20/2/23	Mon 20/2/23	0 days	Mon 20/2/23	Mon 20/2/23	NA	NA 349FF,348FF,351FF,333FF		0 days	0%	1	
Image: Part of the section	46 PCD-1050 KD1E			0 dave	Sat 31/12/22	Sat 31/12/22	0 dave	Sat 22/4/23	Sat 22/4/23	NA	NA 301EE 307EE 303EE 306EE 302EE		-111 dave	0%	1	
Image: Model and the set of the		(1,140days after starting date)					0 days			110			-	078		
Image: Problem of the stand under dual is and under dual is a	47 PCD-1060 KD1F			0 days	Tue 25/1/22	Tue 25/1/22	0 days	Thu 4/8/22	Thu 4/8/22	NA	NA 430FF		-135 days	0%		
In No. No. No. No. No.	48 PCD-1070 KD1G	KD1G completion of civil and structural works of MFB in Portion B-5 (950days after starting data)		0 days	Sat 25/6/22	Sat 25/6/22	0 days	Wed 28/12/22	Wed 28/12/22	NA	NA 431FF		-133 days	0%		
Image: book of the set of the se	49 PCD-1080 KD1H	KD1H completion of civil and structural works of SAS Pumping Station in		0 days	Mon 9/8/21	Mon 9/8/21	0 days	Sat 19/3/22	Sat 19/3/22	NA	NA 459FF,458FF		-148 days	0%		
Image: Note of the sector se	50 PCD-1090 KD11			0 dave	Sat 30/1/21	Sat 30/1/21	1 day	Eri 20/1/21	Eri 20/1/21	Eri 20/1/21	Fri 20/1/21 530EE		0 dave	100%	1	▲ 2
Image: Note of the state of the s		(150days after access date of B-7A)												100 %		•-
Image: Mode in the Bird Bird Bird Bird Bird Bird Bird Bird	51 PCD-1100 KD1J	KD1J completion of auxiliary facilites in Portion B-7 (800days after starting date)		0 days	Wed 26/1/22	Wed 26/1/22	0 days	Mon 13/6/22	Mon 13/6/22	NA	NA 496FF,495FF,521FF,520FF,513FF,512F	FF	-126 days	0%		
Image Image <th< td=""><td>52 PCD-1110 KD2A</td><td></td><td></td><td>0 days</td><td>Sat 27/3/21</td><td>Sat 27/3/21</td><td>0 days</td><td>Wed 4/8/21</td><td>Wed 4/8/21</td><td>NA</td><td>NA 545FF,543FF</td><td></td><td>-47 days</td><td>0%</td><td></td><td></td></th<>	52 PCD-1110 KD2A			0 days	Sat 27/3/21	Sat 27/3/21	0 days	Wed 4/8/21	Wed 4/8/21	NA	NA 545FF,543FF		-47 days	0%		
No.100 NA.4 AskA vanishing of al alline and search (14-00 pp search rearry and 14-00 pp search reary and 14-00 pp search reary and 14-00 pp seary and 14-	53 PCD-1120 KD2B	KD2B completion of air supply main alternation to existing air blower house		0 days	Thu 3/9/20	Thu 3/9/20	1 day	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21	Fri 26/3/21 532FF,536FF,537FF,538FF		0 days	100%		
Image: Normal and the state of the	54 PCD-1130 KD3A			0 dave	Sat 28/10/23	Sat 28/10/23	0 dave	Mon 13/5/24	Mon 13/5/24	NA	NA 555EE 557EE		-119 dave	0%		
Image: Sector of the Wate (1.5		date)		0 days				1001110/0/24		110			-115 days	0.78		
Dif Dif <thd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>FF</td><td></td><td></td><td></td><td></td></thd<>												FF				
Image: Bit Set Set Set Set Set Set Set Set Set Se	57 PCD-1020 SW2	Section 2 of the Works (900 after starting date)		0 days	Fri 6/5/22	Fri 6/5/22	0 days	Sat 5/11/22	Sat 5/11/22	NA	NA 549FF,399FF,433FF,352FF,334FF,550F		-106 days	0%		
Bitesis ko KDF Bitesis ko KDF O days NA NA Stady Stady Color NA NA<	60 PCD-1050	Landscape Establishment Works		0 days	Thu 27/3/25	Thu 27/3/25	0 days	Wed 24/9/25	Wed 24/9/25	NA	NA 560FF		0 days			
B Indemet Noff (c)a. Day A NA A </td <td></td> <td>2%</td> <td></td> <td></td>														2%		
66 F10-142 Duby and Disagation divoks huna 2021 O days NA NA A NA NA NA NA NA<															i i	
66 870-100 9 Other Events kOEC (ond all) 9	64 ET1C-1110						23 days					65			1	
Br C1-210 Special working arrangement usb C0/01-19 in January 2200 O dags NA NA A dags Size 21/02 Wet Advint 22 MA NA Special working arrangement usb C0/01-19 in January 2200 OPS G6 ETD-100 Effects to KDD O dags? NA NA Special working arrangement usb C0/01-19 in January 2200 OPS OPS G70 ETD-110 D ably and Discuption 0 Works halows 201 G O dags NA NA OP dags Mon 20223 Med 23022 MA NA NA OPS OPS 70 ETD-110 D ably and Discuption 0 Works halows 201 G O dags NA NA MA D dags Mon 2022 Mon 2022 Mon 2022 MA NA Process Process </td <td>66 ET1C-1200</td> <td></td> <td>l</td> <td></td>	66 ET1C-1200														l	
Pi Pi<	67 ET1C-1210	Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Sat 22/10/22	Wed 26/10/22		-	64	1056.5 days	0%		
P10 Delay and Discuption of Works betree June 2021 O days NA NA O days NA NA O days NA NA <td></td> <td>I</td> <td></td>															I	
2 FTIP-100 Effects to KD1F O days NA NA A 49 days Wed 23/3/2 Wed 11/5/2 NA												71			I	
$\overline{12}$ $\overline{11110}$ $\overline{111100}$ $\overline{111100}$ $\overline{111100}$ $\overline{111100}$ $\overline{111100}$ <td></td>																
A CITI-F110 Delay and Disruption of Works before June 2021 O Data NA 23 days Wed 23/322 Fit 15/422 NA NA 23 days Wed 23/322 Fit 15/422 NA NA 23 days Wed 23/322 Fit 15/422 NA NA 23 days Wed 11/522 NA NA 24 days 24 days 22 days 2 MA 76 ETIG-100 Delay and Disruption of Works before June 2021 O days NA																
78ETI-112 0 Delay and Disruption of Works in June 2021 0 days NA NA 28 day $Fil 15/422$ $Wed 11/522$ $Wed 51/022$ NA <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>75</td><td></td><td></td><td></td><td></td></th<>												75				
7E1G-110Inclement Weather to KDIG (cal. Day)Inclement Weather to	75 ET1F-1120			0 days	NA		26 days	Fri 15/4/22		NA				0%	l I	
P1 P1 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																
Pril Cite Delay and Disruption of Works in June 2021 O days NA Add Pril Pril Pril NA NA Pril Pril NA NA Pril Pril NA NA Pril Pril NA NA NA Pril Pril Pril NA												79		0%	I	
8 FTH-100 6 Odays NA Add page FTI 2/102 FTI 2/102 NA NA NA Odays Pri 2/102 FTI 2/102 NA NA NA Odays Pri 2/102 FTI 2/102 NA NA NA Odays Odays NA NA Add page FTI 2/102 FTI 1/102 NA NA NA Odays Odays Odays NA														0%	I	
Bit ETH-110 Delay and Disruption of Works before June 2021 O days NA NA 23 days Fri 2210/21 Sun 14/11/21 NA NA/28 B34.5 days Dis4.5 days Ods 8 ETH-110 Delay and Disruption of Works before June 2021 0 days NA NA 23 days Fri 2210/21 Sun 14/11/21 NA NA/28 B34.5 days 0 dos 0 dos 8 ETH-110 Delay and Disruption of Works in June 2021 0 days NA NA 26 days Sun 14/11/21 Fri 10/12/21 NA NA/82 1384.5 days 0 dos	80 ET1H-1000															
B3 ETH-1120 Delay and Disruption of Works in June 2021 O days NA 26 days Sun 14/11/21 Fri 10/12/21 NA NA 82 1384.5 days 0%												83			I I	
												~				
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Data Date: 31/07/2021 Page 1															1	



		Plant - Main Works Stage 1	Inclement PM	I & CE no. Baseline Duration	Baseline Start	Baseline Finish	Dumitic -	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Sia-I	Risk % Complete		
D Activity ID	Date I	Fask Name	Weather (NC CE no.		Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Slack	Risk % Complete Allowance		
ET1H-110	•		(NCE no.)	0 days	NA	NA	49 days	Mon 7/2/22	Mon 28/3/22	NA	NA		1276.5 days	0%	Qtr 3	2020 Qtr 1 Qtr 3
ET1H-110		Inclement Weather to KD1J (cal. Day) Delay and Disruption of Works before June 2021		0 days	NA	NA	23 days	Mon 7/2/22	Wed 2/3/22	NA	NA 30	87	1276.5 days	0%		1
ET1H-112		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
ET2A-1000		Effects to KD2A		0 days	NA	NA	53 days	Fri 18/6/21	Tue 10/8/21	Fri 18/6/21	NA		1506.5 days	24%		1
ET2A-110		Inclement Weather to KD2A (cal. Day)		0 days	NA	NA	49 days	Tue 22/6/21	Tue 10/8/21	Tue 22/6/21	NA		1506.5 days	17%		i.
ET2A-111		Delay and Disruption of Works before June 2021		0 days	NA	NA	23 days	Tue 22/6/21	Thu 15/7/21	Tue 22/6/21	NA 93	91	1506.5 days	37%	_	1
ET2A-112 ET2A-120		Delay and Disruption of Works in June 2021 Other Events to KD2A (not all)		0 days	NA NA	NA NA	26 days	Thu 15/7/21 Fri 18/6/21	Tue 10/8/21 Tue 22/6/21	NA Fri 18/6/21	NA 90 Tue 22/6/21		1506.5 days 0 days	0%		1
ET2A-120 3 ET2A-121		Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Fri 18/6/21	Tue 22/6/21	Fri 18/6/21	Tue 22/6/21 31	90	0 days	100%		I I
ET3A-1000		Effects to KD3A		0 days	NA	NA	53 days	Tue 16/1/24	Fri 8/3/24	NA	NA		565 days	0%	_	1
95 ET3A-110	0	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%	-	1
96 ET3A-111		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
97 ET3A-112		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%		1
98 ET3A-120		Other Events to KD3A (not all)		0 days	NA	NA	4 days	Tue 16/1/24	Fri 19/1/24	NA	NA		565 days	0%		
99 ET3A-1210 100 ETS1-1000		Special working arrangement due to COVID-19 in January 2020 Effects to Section 1 of the Works		0 days 0 days	NA	NA	4 days 53 days	Tue 16/1/24 Fri 9/2/24	Fri 19/1/24 Tue 2/4/24	NA	NA 33 NA	96	565 days 540.5 days	0%		1
¹⁰¹ ETS1-110		Inclement Weather to Section 1 of the Works (cal. Day)		0 days	NA	NA	49 days	Tue 13/2/24	Tue 2/4/24	NA	NA		540.5 days	0%		I.
02 ETS1-111		Delay and Disruption of Works before June 2021		0 days	NA	NA	23 days	Tue 13/2/24	Thu 7/3/24	NA	NA 105	103	540.5 days	0%	6	1
103 ETS1-112	0	Delay and Disruption of Works in June 2021		0 days	NA	NA	26 days	Thu 7/3/24	Tue 2/4/24	NA	NA 102		540.5 days	0%	6	i.
04 ETS1-120		Other Events to Section 1 of the Works (not all)		0 days	NA	NA	4 days	Fri 9/2/24	Tue 13/2/24	NA	NA		540.5 days	0%		
105 ETS1-121		Special working arrangement due to COVID-19 in January 2020		0 days	NA	NA	4 days	Fri 9/2/24	Tue 13/2/24	NA	NA 35	102	540.5 days	0%		1
06 ETS2-100 07 ETS2-110		Effects to Section 2 of the Works Inclement Weather to Section 2 of the Works (cal. Day)		0 days 0 days	NA	NA	53 days 49 days	Sat 23/7/22 Wed 27/7/22	Wed 14/9/22 Wed 14/9/22	NA	NA		1106.5 days 1106.5 days	0%	_	I I
108 ETS2-111		Delay and Disruption of Works before June 2021		0 days	NA	NA	23 days	Wed 27/7/22	Fri 19/8/22	NA	NA 111	109	1106.5 days	0%	r b	1
109 ETS2-112		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%	0	
10 ETS2-120		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%	6	1
11 ETS2-121		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%		
12 ETS3-1000		Effects to Section 3 of the Works		0 days	NA	NA	53 days	Wed 12/6/24	Sun 4/8/24	NA	NA		416.5 days	0%	_	1
13 ETS3-110 14 ETS3-111		Inclement Weather to Section 3 of the Works (cal. Day) Delay and Disruption of Works before June 2021		0 days 0 days	NA	NA	49 days 23 days	Sun 16/6/24 Sun 16/6/24	Sun 4/8/24 Tue 9/7/24	NA NA	NA NA 117	115	416.5 days 416.5 days	0%		1
15 ETS3-112		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%	_	I I
116 ETS3-120		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%		1
17 ETS3-121		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%	6	i I
18 SUB-1000		Submissions (cal.day)		1564 days	Mon 18/11/19	Wed 28/2/24	1956 days	Mon 18/11/19	Wed 26/3/25	Mon 18/11/19	NA		182 days	60%		1
19 SUBS-100		Subletting Package Prepare & submit subletting procedure		96 days 12 days	Mon 18/11/19 Mon 18/11/19	Fri 21/2/20 Fri 29/11/19	562 days 12 days	Mon 18/11/19 Mon 18/11/19	Tue 1/6/21 Fri 29/11/19	Mon 18/11/19 Mon 18/11/19	Tue 1/6/21 Fri 29/11/19 2	121	0 days 0 days	100%	-	
21 SUBS-102		PM review and accept subletting procedure		15 days	Sat 30/11/19	Wed 11/12/19	12 days	Sat 30/11/19	Wed 11/12/19	Sat 30/11/19		142,122,125,124,123	0 days	100%	6	· 1
22 SUBS-103		Subletting for demolition works		24 days	Thu 12/12/19 Thu 12/12/19	Sat 4/1/20 Sat 4/1/20	93 days	Tue 17/12/19 Fri 10/1/20	Wed 18/3/20 Fri 27/3/20	Tue 17/12/19 Fri 10/1/20	Wed 18/3/20 121,154 Fri 27/3/20 121	339,462,295,402,539,359 212	0 days 0 days	100%		
123 SUB3-104		Subletting for UU diversion for Inlet Works No.1 Subletting for Inspection pit excavation		24 days 0 days	NA	NA NA	78 days 56 days	Thu 19/12/19	Wed 12/2/20	Thu 19/12/19	Wed 12/2/20 121,154	212 214,126	0 days	100%	_	
25 SUBS-106	i0	Subletting for Preliminary Works (topographic surveying)		14 days	Thu 12/12/19	Wed 25/12/19	54 days	Fri 20/12/19	Tue 11/2/20	Fri 20/12/19	Tue 11/2/20 121,154	159, 198, 129, 130, 131, 127	0 days	100%		—
26 SUBS-107		Subletting for AR3 access road Subletting for pre-drilling works		24 days 24 days	Thu 12/12/19 Thu 12/12/19	Sat 4/1/20 Sat 4/1/20	0 days 38 days	Fri 13/12/19 Thu 6/2/20	Tue 11/2/20 Fri 20/3/20	Fri 13/12/19 Thu 6/2/20	Tue 11/2/20 124 Fri 20/3/20 125,126	127,210 452,342,414,128	0 days 0 days	100%		
28 SUBS-109	0	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%	6	
29 SUBS-110		Subletting for independent BIM consultant		24 days	Thu 12/12/19	4/1/120 NA	0 days	Wed 11/12/19	Thu 23/1/20	Wed 11/12/19	Thu 23/1/20 125	193	0 days	100%	_	
30 SUBS-111 31 SUBS-112		Subletting for independent BIM services Subletting for Design, Supply & Install of Temporary Activated Carbon		0 days 0 days	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	Wed 26/2/20 125 Tue 11/2/20 125	132,133	0 days 0 days	100%		
00.0000.000		Deodorization Units (E&M Works)		00.1	7. 10/10/10	71 40/4/00	15.1	0 5/7/00	T 40/0/00	0 5/7/00	T 10000 101	040 445 450 000		1000	_	-
32 SUBS-113 33 SUBS-114		Subletting for pre-bored H pile works Subletting for Sheetpile installation works		36 days 0 days	Thu 12/12/19 NA	Thu 16/1/20 NA	45 days 45 days	Sun 5/7/20 Tue 1/9/20	Tue 18/8/20 Thu 15/10/20	Sun 5/7/20 Tue 1/9/20	Tue 18/8/20 131 Thu 15/10/20 131	343,415,453,309 344,455,134,135	0 days 0 days	100%		
34 SUBS-115	i0	Subletting for ELS works for Inlet Works No.1		48 days	Sun 5/1/20	Fri 21/2/20	85 days	Fri 16/10/20	Fri 8/1/21	Fri 16/10/20	Fri 8/1/21 133		0 days	100%	, D	
35 SUBS-116	i0	Subletting for ELS works for Membrance Facilities Building and other buildings		48 days	Sun 5/1/20	Fri 21/2/20	85 days	Fri 16/10/20	Fri 8/1/21	Fri 16/10/20	Fri 8/1/21 133	346,389,456,136,137,138,139,140	,40 days	100%	6	
36 SUBS-117	0	Subletting for structural works for Inlet Works Building		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Sat 9/1/21	Thu 25/2/21	Sat 9/1/21	Thu 25/2/21 135		0 days	100%		
37 SUBS-118		Subletting for structural works for Primary Sedimentation Tanks		48 days	Thu 12/12/19 Thu 12/12/19	Tue 28/1/20 Tue 28/1/20	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	Thu 25/2/21 135 Thu 25/2/21 135	348 391	0 days	100%	_	
138 SUBS-119 139 SUBS-120		Subletting for structural works for Bioreactors Subletting for structural works for Membrance Facilities Building		48 days 48 days	Thu 12/12/19 Thu 12/12/19	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	Thu 25/2/21 135 Thu 25/2/21 135	426	0 days 0 days	100%		
40 SUBS-121	0	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%	, D	-
41 SUBS-122	:0	Subletting for ABWF works		48 days	Thu 12/12/19	Tue 28/1/20	48 days	Fri 26/2/21	Wed 14/4/21	Fri 26/2/21	Wed 14/4/21 140	332,350,398,460,488,504,514,522	, 0 days	100%	6	1
42 SUBS-123		Subletting for Process Pipeworks, Utilities and Roadworks		48 days	Thu 12/12/19	Tue 28/1/20	150 days	Fri 22/5/20	Sun 18/10/20	Fri 22/5/20	Sun 18/10/20 121	532,549,551,552,553,554,543	0 days	100%	0	
43 SUBS-124 44 SUBS-125		Subletting for Landscape Hardworks and Softworks Subletting for Trial dewatering works and installation of additional stop logs		48 days 0 days	Thu 12/12/19 NA	Tue 28/1/20 NA	48 days 15 days	Thu 15/4/21 Tue 15/9/20	Tue 1/6/21 Tue 29/9/20	Thu 15/4/21 Tue 15/9/20	Tue 1/6/21 141 Tue 29/9/20	559,560 355	0 days 0 days	100%		
		at BR2 connon channel due to malfucntioned of existing penstock at FST no. 5 and 7 (EWN 055)		o dayo			10 Uayo	.35 10/0/20		100 10/0/20				100%		
45 SUBS-126	:0	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)														
46 SUBS-127	0	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%	6	
47 SUBS-128	10	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%	6	
48 SUBS-129	10	025) Subletting for Construction of Cable trough for CLP 11kv Cable Diversion			NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20		453		100%		_
	· · · · · · · · · · · · · · · · · · ·	(PPMI 041)		0 days			or days	wiJ11 2 1/9/20	**du 21/10/20	won 21/9/20		100	0 days	100%	Ĩ	-
49 SUBS-130	0	Subletting for Demolition of Existing Pillar box and its concrete plinth (CE 030)		0 days	NA	NA	31 days	Mon 21/9/20	Wed 21/10/20	Mon 21/9/20	Wed 21/10/20	441	0 days	100%	6	-
50 SUBS-131	0	Subletting for Excavation to locate existing underground cable near SAS		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%	6	-
		Pump Station (PPMI 038)														-
51 SUBS-132 52 SUBA-100		Subletting for Diversion of pumping system sewerage (PPMI 083) Statutory Submission, Submission and Approval		0 days 1564 days	NA Mon 18/11/19	NA Wed 28/2/24	31 days 1956 days	Mon 21/9/20 Mon 18/11/19	Wed 21/10/20 Wed 26/3/25	Mon 21/9/20 Mon 18/11/19	Wed 21/10/20	446	0 days 182 days	100%		
153 SUBA-100		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%		
54 SUBA-102	0	method statement of major activities Prenare and submit Subcontractor Management Plan (SMP)		24 days	Mon 18/11/19	Wed 11/12/19	24 doub	Mon 18/11/19	Wed 11/12/19	Mon 18/11/19	Wed 11/12/19 2	122,125,124	0 days	100%		
154 SUBA-102 155 SUBA-103		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	Mon 23/12/19	24 days 36 days	Mon 18/11/19 Mon 18/11/19	Mon 23/12/19	Mon 18/11/19 Mon 18/11/19	Mon 23/12/19 2	166, 160, 164	0 days 0 days	100%		
156 SUBA-104		Prepare and submit the TTA plans inside Treatment Plant for UU diversion and buildings construction		24 days	Mon 18/11/19	Wed 11/12/19	24 days	Mon 18/11/19	Wed 11/12/19	Mon 18/11/19	Wed 11/12/19 2	201	0 days	100%		1 1
	i0	Prepare and submit method statement for UU diversion for Inlet Works No.1	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%	6	
157 SUBA-105										0						1
	0	PM review and accept the method statement Prepare and submit combine underground services drawing for PM's review	v	12 days 24 days	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 Sat 18/1/20	0 days 23 days	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 Sat 18/1/20	Sat 30/11/19 Thu 26/12/19	Wed 11/12/19 157 Sat 18/1/20 125	213,214	0 days 0 days	100%		
58 SUBA-106		the alignment														i i
58 SUBA-106 59 SUBA-107	0	*		24 days	Mon 18/11/19 Mon 18/11/19	Wed 11/12/19 Wed 11/12/19	66 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	Wed 22/1/20 2 Mon 1/6/20 2	402,339,462,295,539	0 days	100%	_	
58 SUBA-106 59 SUBA-107 60 SUBA-108	0	Prepare and submit method statement for demolition existing structures		24 days 36 days	Mon 18/11/19 Mon 18/11/19	Mon 23/12/19	197 days 92 days	Mon 18/11/19 Sat 1/2/20	Mon 1/6/20 Mon 25/5/20	Mon 18/11/19 Sat 1/2/20	Mon 1/6/20 2 Mon 25/5/20 2	339,462,539,359	0 days 0 days	100%		1
58 SUBA-106 59 SUBA-107 60 SUBA-108 61 SUBA-109	i0	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Prepare and submit method statements to MTRC regarding the works within	n													1
58 SUBA-106 59 SUBA-107 60 SUBA-108 61 SUBA-109 62 SUBA-110	i0 10 10	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Propare and submit method statements to MTRC regarding the works within railing protection boundary	n		Mag 10 Harris	Wed 11/12/19	3 days	Mon 18/11/19 Mon 10/2/20	Wed 20/11/19 Tue 16/6/20	Mon 18/11/19 Mon 10/2/20	Wed 20/11/19 2 Tue 16/6/20 2		0 days 0 days	100%		
58 SUBA-106 59 SUBA-107 60 SUBA-108 61 SUBA-109 62 SUBA-110 63 SUBA-111	0 0 0 0 0	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Prepare and submit method statements to MTRC regarding the works within	n	24 days 24 days	Mon 18/11/19 Mon 10/2/20	Wed 4/3/20	128 days							. 30 / 0	_	
58 SUBA-106 59 SUBA-107 60 SUBA-108 61 SUBA-109 62 SUBA-109 62 SUBA-110 63 SUBA-111 64 SUBA-112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Prepare and submit method statements to MTRC regarding the works within railing protection boundary Prepare and submit & approve Safety Management Plan Prepare and submit Excavation and lateral support (ELS) proposal Prepare and submit Excavation and lateral support (ELS) proposal		24 days			128 days 24 days	Wed 29/9/21	Sat 23/10/21	NA	NA 314SF		1433 days	0%	•	i.
58 SUBA-106 59 SUBA-107 60 SUBA-108 61 SUBA-109 62 SUBA-110 63 SUBA-111 64 SUBA-112 65 SUBA-112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Prepare and submit method statements to MTRC regarding the works within railing protection boundary Prepare and submit & approve Safety Management Plan Prepare and submit Excavation and lateral support (ELS) proposal Prepare and submit Excavation and lateral support (ELS) proposal for Intel Works No.1		24 days 24 days 0 days	Mon 10/2/20 NA	Wed 4/3/20	24 days	Wed 29/9/21							0	
158 SUBA-106 159 SUBA-107 160 SUBA-108 161 SUBA-109 162 SUBA-109 163 SUBA-110 163 SUBA-111 164 SUBA-112 166 SUBA-112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Propare and submit method statements to MTRC regarding the works within railing protection boundary Prepare and submit & approve Safety Management Plan Prepare and submit Excavation and lateral support (ELS) proposal Prepare and submit Excavation and lateral support (ELS) proposal for Prepare and submit Excavation and lateral support (ELS) proposal for Primary Sedimentation tanks No.1-4		24 days 24 days	Mon 10/2/20 NA NA	Wed 4/3/20 NA NA	24 days 24 days	Wed 29/9/21 Fri 1/7/22	Mon 25/7/22	NA	NA 346SF		1158 days	0%	, b	
58 SUBA-106 59 SUBA-107 60 SUBA-108 61 SUBA-109 62 SUBA-109 63 SUBA-110 64 SUBA-112 65 SUBA-112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Propare and submit method statements to MTRC regarding the works within railing protection boundary Prepare and submit & approve Safety Management Plan Prepare and submit Exacution and lateral support (ELS) proposal Propare and submit Exacution and lateral support (ELS) proposal for New Yorks No.1		24 days 24 days 0 days	Mon 10/2/20 NA	Wed 4/3/20 NA	24 days	Wed 29/9/21							, b	
158 SUBA-106 159 SUBA-107 160 SUBA-108 161 SUBA-109 162 SUBA-109 163 SUBA-110 163 SUBA-111 164 SUBA-112 166 SUBA-112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Prepare and submit method statements to MTRC regarding the works within railing protection boundary Prepare and submit Exavation and lateral support (ELS) proposal Prepare and submit Exavation and lateral support (ELS) proposal Prepare and submit Exavation and lateral support (ELS) proposal for Not.1 Prepare and submit Exavation and lateral support (ELS) proposal for Primmary Sedimentation tanks No.1.4 Prepare and submit Exavation and lateral support (ELS) proposal for Primmary Sedimentation tanks No.1.4		24 days 24 days 0 days 0 days	Mon 10/2/20 NA NA	Wed 4/3/20 NA NA	24 days 24 days	Wed 29/9/21 Fri 1/7/22	Mon 25/7/22	NA	NA 346SF		1158 days	0%		
158 SUBA-106 159 SUBA-107 160 SUBA-109 161 SUBA-109 162 SUBA-109 163 SUBA-109 164 SUBA-109 165 SUBA-111 164 SUBA-112 165 SUBA-112 166 SUBA-112 167 SUBA-112 168 SUBA-113	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 100 10 100 10 100 10 100 10 100 10	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Prepare and submit method statements to MTRC regarding the works within railing protection boundary Prepare and submit Exavation and lateral support (ELS) proposal Prepare and submit Exavation and lateral support (ELS) proposal Prepare and submit Exavation and lateral support (ELS) proposal for Inlet Works No.1 Prepare and submit Exavation and lateral support (ELS) proposal for Primmary Sedimentation tanks No.1-4 Prepare and submit Exavation and lateral support (ELS) proposal for Bioreactor No. 2A&2B Prepare and submit Exavation and lateral support (ELS) proposal for Bioreactor No. 2A&2B		24 days 24 days 0 days 0 days 0 days 24 days	Mon 10/2/20 NA NA NA Mon 10/2/20	Wed 4/3/20 NA NA NA Wed 4/3/20	24 days 24 days 24 days 24 days 165 days	Wed 29/9/21 Fri 1/7/22 Sun 15/5/22 Mon 10/2/20	Mon 25/7/22 Wed 8/6/22 Thu 23/7/20	NA NA Mon 10/2/20	NA 346SF NA 389SF Thu 23/7/20 2		1158 days 1205 days 0 days	0%		
158 SUBA-106 159 SUBA-107 160 SUBA-108 161 SUBA-109 162 SUBA-109 163 SUBA-110 163 SUBA-111 164 SUBA-112 165 SUBA-112 167 SUBA-112	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 100 10 100 10 100 10 100 10 100 10	Prepare and submit method statement for demolition existing structures Prepare and submit method statement for structural works for buildings Prepare and submit method statements to MTRC regarding the works within railing protection boundary Prepare and submit Execution and lateral support (ELS) proposal Prepare and submit Execution and lateral support (ELS) proposal for Inlet Works No. 1 Prepare and submit Execution and lateral support (ELS) proposal for Primmary Sedimentation tanks No.1-4 Prepare and submit Execution and lateral support (ELS) proposal for Primmary Sedimentation tanks No.1-4 Prepare and submit Execution and lateral support (ELS) proposal for Bioreactor No. 2A&2B		24 days 24 days 0 days 0 days 0 days	Mon 10/2/20 NA NA NA	Wed 4/3/20 NA NA NA	24 days 24 days 24 days 24 days	Wed 29/9/21 Fri 1/7/22 Sun 15/5/22	Mon 25/7/22 Wed 8/6/22	NA	NA 346SF NA 389SF		1158 days 1205 days	0%		

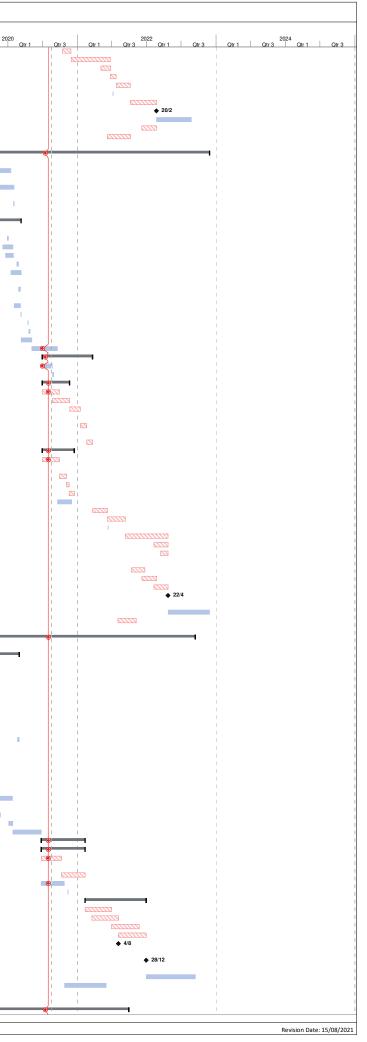


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SUBP-1050 SUBP-1050 SUBP-1070 SUBP-1080 SUBP-1080 SUBP-1080 SUBP-1090 SUBP-1090 SUBP-1000 CPW-1000 CPW-2000 CPW-3000 CPW-3000 CPW-3000 CAR-0000 CAR-2001 CAR-2000 CAR-2001 CAR-2000 CAR-2001 CAR-2002 CAR-3000 CW-1000 CW-1300 CW-1400 CW-1400 CW-1400 CW-1421 CW-1423 CW-1423 CW-1424 CW-1425	00 00 00 <	Prepare, submit and approve the concrete mix material Prepare, submit and approve the rebar material Prepare, submit and approve the MBWF works material Prepare, submit and approve the MBWF works material Prepare, submit and approve the pretective lining to concrete Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the protective lining to Common data Prepare, submit BIM submission Construction Works (Working day) Preliminary Works Initial Survey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance wroks Awaiting for AECOM instruction for alignment confirmation for read works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC2016/07 Drainage and Utilities Works Installation of Monitoring Markers Trimming of Existing Shote Piles in Access Road AR3 Installation of Monitoring Markers Prefare and Approve the protection of anilophane RP6 and Associated Concerting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	05 055 215-1 215-2	48 days 48 days 48 days 48 days 0 days 0 days 1205 days 1205 days 1484 days 1957 days 1957 days 109 days 24 days 26 days 0 days 133 days 28 days	Thu 12/12/19 Thu 12/12/19 Sai 12/12/19 Sai 12/12/20 NA Thu 6/20 Thu 6/20 Thu 6/20 Mon 18/11/19 Mon 18/11/19 Fri 27/12/19 Wed 5/2/20 NA	Tue 281/20 Tue 281/20 Tue 281/20 Tue 281/20 Tue 281/20 NA Wed 28/224 Wed 1/4/20 Wed 28/2/24 The 27/2/55 Thu 5/3/20	90 days 49 days 48 days 48 days 21 days 1562 days 37 days 1451 days	Mon 3/2/20 Sat 23/5/20 Tue 1/9/20 Mon 1/3/21 Tue 1/9/20 Tue 5/5/20 Mon 18/11/19	Sat 2/5/20 Fri 10/7/20 Sun 18/10/20 Sat 17/4/21 Sun 18/10/20 Mon 25/5/20	Sat 23/5/20 Tue 1/9/20 Mon 1/3/21	Fri 10/7/20 183 Sun 18/10/20 183	391,426 391,426 332,350,398,460,488,504,514,522	0 days 0 days 0 days 22, 0 days 0 days 0 days 0 days		100% 100% 100% 100% 100%	
SUBP.1070 SUBP.1080 SUBP.1080 SUBP.100 SUBP.1010 SUBP.101 SUBP.100 SUBP.100 CPW.1000 CPW.1000 CPW.2000 CPW.3000 CAR-0000 CAR-1001 CAR-2000 CAR-3000 CW-1000 CW-1000 CW-1300 CW-1400 CW-1400 CW-1400 CW-1401 CW-1420 CW-1423 CW-1423 CW-1423 CW-1424 CW-142	70	Prepare, submit and approve the metal works material Prepare, submit and approve the MBWF works material Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the multi-part covers BIM Prepare, submit and approve the proposal of details of Common data environment (CDE) Prepare and submit BIM submission Construction Works (Working day) Preliminary Works Initial Survey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance wroks Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract Dr2016/07 Drainage and Utilities Works Interliation of Monitoris Instruction for alignment confirmation for Contract Dr2016/07 Drainage and Utilities Works Interliation of Monitors In Portion B-14	05 055 215-1 215-2	48 days 48 days 0 days 0 days 1205 days 48 days 1484 days 1957 days 1957 days 1957 days 24 days 30 days 26 days 0 days 183 days 28 days	Thu 12/12/19 Sat 12/12/20 NA NA Thu 62/20 Thu 62/20 Thu 62/20 Mon 18/11/19 Mon 18/11/19 Fri 27/12/19 Wed 5/2/20 NA	Tue 28/1/20 Tue 28/1/20 NA NA Wed 28/2/24 Wed 1/4/20 Wed 28/2/24 Tue 27/3/25 Thu 5/3/20	48 days 48 days 48 days 21 days 1562 days 37 days 1451 days	Tue 1/9/20 Mon 1/3/21 Tue 1/9/20 Tue 5/5/20 Mon 18/11/19	Sun 18/10/20 Sat 17/4/21 Sun 18/10/20 Mon 25/5/20	Tue 1/9/20 Mon 1/3/21	Sun 18/10/20 183	391,426 332,350,398,460,488,504,514,522	0 days 22, 0 days 0 days 0 days 0 days		100% 100% 100% 100%	
SUBP-1080 SUBP-1080 SUBP-1090 SUBP-1090 SUBP-1000 SUBB-1010 SUBB-1010 SUBB-1010 CPW-1000 CPW-1000 CPW-3000 CAR-0000 CAR-1000 CAR-1002 CAR-2001 CAR-2000 CAR-2000 CAR-2000 CAR-2001 CAR-2002 CAR-3000 CW-1000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1420 CW-1400 CW-1400 CW-1400 CW-1421 CW-1423 CW-1424 CW-1425	00	Prepare, submit and approve the ABWF work's material Prepare, submit and approve the protective lining to concrete Prepare, submit and approve the multi-part covers BIM Prepare, submit and approve the multi-part covers Construction Works (Working day) Preliminary Works Initial Survey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance wroks Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC2016/07 Drainage and Utilities Works Infinitial Works Infinitianal Others in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concerling Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	05 055 215-1 215-2	48 days 0 days 0 days 1205 days 1205 days 1484 days 1957 days 1957 days 1957 days 24 days 24 days 26 days 28 days 183 days 28 days	Sat 12/12/20 NA NA Thu 6/2/20 Thu 6/2/20 Mon 18/11/19 Mon 18/11/19 Mon 18/11/19 Firi 27/12/19 Wed 5/2/20 NA	Tue 28/1/20 NA NA Wed 28/2/24 Wed 1/4/20 Wed 28/2/24 Thu 27/3/25 Thu 5/3/20	48 days 48 days 21 days 1562 days 37 days 1451 days	Mon 1/3/21 Tue 1/9/20 Tue 5/5/20 Mon 18/11/19	Sat 17/4/21 Sun 18/10/20 Mon 25/5/20	Mon 1/3/21		332,350,398,460,488,504,514,522	22, 0 days 0 days 0 days		100% 100% 100%	1
SUBP.1100 SUBP.100 SUBB.1000 SUBB.1000 CPW.1000 CPW.1000 CPW.2000 CPW.2000 CAR.0000 CAR.1001 CAR.2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2001 CAR-2000 CAR-2001 CAR-2001 CAR-2002 CAR-3000 CIW-1000 CIW-1000 CIW-1300 CIW-1300 CIW-1300 CIW-1300 CIW-1400 CIW-1400 CIW-1400 CIW-1421 CIW-1423 CIW-1423 CIW-1424 CIW-1425	00	Prepare, submit and approve the multi-part covers BIM Prepare, submit and approve the moulti-part covers BIM Prepare, submit and approve the proposal of details of Common data environment (CDE) Prepare and submit BIM submission Construction Works (Working day) Preliminary Works Initial Survey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance works Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manchie Cover of Chamber RP6 and Associated Concreting Works in Portion B-14	05 055 215-1 215-2	0 days 1205 days 48 days 1484 days 1957 days 109 days 24 days 30 days 26 days 0 days 1937 days 28 days	NA Thu 6/2/20 Thu 6/2/20 Mon 18/11/19 Mon 18/11/19 Mon 18/11/19 Firi 27/12/19 Wed 5/2/20 NA	NA Wed 28/2/24 Wed 1/4/20 Wed 28/2/24 Thu 27/3/25 Thu 5/3/20	21 days 1562 days 37 days 1451 days	Tue 5/5/20 Mon 18/11/19	Mon 25/5/20	Tue 1/9/20		391,426	0 days	<u> </u>	100%	1
SUBB-1000 SUBB-1010 SUBB-1010 CH000 CPW-1000 CPW-3000 CPW-3000 CPW-4000 CAR-1001 CAR-1002 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-3000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1001 CW-1002 CW-1003 CW-1004 CW-1310 CW-1310 CW-1310 CW-1400 CW-1410 CW-1420 CW-1421 CW-1422 CW-1423 CW-1423 CW-1424 CW-1425	00 • • • 0 •	BIM Prepare. submit and approve the proposal of details of Common data environment (CDE) Prepare and submit BIM submission Construction Works (Working day) Preliminary Works Preliminary Works Initial Survey Condition Survey Initial Survey Condition of Monitoring Markers Tree Felling Works Access Rood (AR3), B-1 Site setup and clearance works Awaiting for AECOM instruction for alignment confirmation for read works. Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Short Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A Diversion of Existing Underground Cables in Portion B-1A	05 055 215-1 215-2	1205 days 48 days 1484 days 1957 days 109 days 24 days 30 days 26 days 0 days 193 days 193 days 28 days	Thu 6/2/20 Thu 6/2/20 Thu 6/2/20 Mon 18/11/19 Mon 18/11/19 Fri 27/12/19 Wed 5/2/20 NA	Wed 28/2/24 Wed 1/4/20 Wed 28/2/24 Thu 27/3/25 Thu 5/3/20	1562 days 37 days 1451 days	Mon 18/11/19		Tue 5/5/20	Sun 18/10/20 183 Mon 25/5/20 183					1
C-1000 CPW-1000 CPW-1000 CPW-1000 CPW-2000 CPW-3000 CPW-3000 CAR-1000 CAR-1001 CAR-1002 CAR-2000 CAR-2000 CAR-2000 CAR-2001 CAR-2001 CAR-2002 CAR-2002 CAR-3000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1300 CW-1300 CW-1400 CW-1400 CW-1400 CW-1421 CW-1423 CW-1423 CW-1424 CW-1425	• • 0 •	ervironment (CDE) Prepare and submit BIM submission Construction Works (Working day) Preliminary Works Initial Sturvey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance works Awaiting for AECOM instruction for alignment confirmation for road works Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-14	05 055 215-1 215-2	1484 days 1957 days 109 days 24 days 30 days 26 days 0 days 193 days 193 days 28 days	Thu 6/2/20 Mon 18/11/19 Mon 18/11/19 Min 18/11/19 Fri 27/12/19 Wed 5/2/20 NA	Wed 28/2/24 Thu 27/3/25 Thu 5/3/20	1451 days	Mon 18/11/19	Fri 28/2/25	Mon 18/11/19	NA	10/	178 days		27%	
C-1000 CPW-1000 CPW-1000 CPW-1000 CPW-2000 CPW-3000 CPW-3000 CAR-1000 CAR-1000 CAR-1000 CAR-2000 CAR-3000 CAR-3000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1300 CW-1400 CW-1400 CW-1400 CW-1420 CW-1423 CW-1423 CW-1424 CW-1425	0	Construction Works (Working day) Preliminary Works Initial Survey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance works Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Sheet Piles in Access Road AR3	05 055 215-1 215-2	1957 days 109 days 24 days 30 days 26 days 0 days 193 days 28 days 28 days	Mon 18/11/19 Mon 18/11/19 Mon 18/11/19 Fri 27/12/19 Wed 5/2/20 NA	Thu 27/3/25 Thu 5/3/20			Wed 1/4/20	Mon 18/11/19	Wed 1/4/20 129,130	194	0 days		100%	-
CPW-1000 CPW-1000 CPW-2000 CPW-3000 CPW-3000 CAR-0000 CAR-1001 CAR-1001 CAR-1002 CAR-2000 CAR-3000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1300 CW-1300 CW-1300 CW-1300 CW-1300 CW-1400 CW-1400 CW-1400 CW-1410 CW-1421 CW-1423 CW-1423 CW-1424 CW-1425	0	Preliminary Works Initial Survey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance works Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Shoret Piles in Access Road AR3 Installation of Multi-part Cover and Manchile Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	05 055 215-1 215-2	109 days 24 days 30 days 26 days 0 days 193 days 28 days 28 days	Mon 18/11/19 Mon 18/11/19 Fri 27/12/19 Wed 5/2/20 NA	Thu 5/3/20	2138 days	Thu 2/4/20	Fri 28/2/25	Thu 2/4/20	NA 193		178 days		25%	
CPW-1000 CPW-2000 CPW-3000 CPW-4000 CPW-4000 CAR-1000 CAR-1000 CAR-1001 CAR-2000 CAR-200 CAR-20	0	Initial Survey Condition Survey Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance wroks Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-11	05 055 215-1 215-2	24 days 30 days 26 days 0 days 193 days 28 days	Mon 18/11/19 Fri 27/12/19 Wed 5/2/20 NA		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	NA Tue 17/3/20		0 days 0 days		51% 100%	
CPW-3000 CPW-4000 CAR-000 CAR-1000 CAR-1000 CAR-1001 CAR-2000 CAR-200 CAR-2000 CAR-200 CA	0	Installation of Monitoring Markers Tree Felling Works Access Road (AR3), B-1 Site setup and clearance wroks Awaiting for AECCM Instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	05 055 215-1 215-2	26 days 0 days 193 days 28 days	Wed 5/2/20 NA		10 days	Mon 18/11/19	Thu 28/11/19	Mon 18/11/19	Thu 28/11/19 2	198	0 days		100%	
CPW-4000 CAR-0000 CAR-1000 CAR-1001 CAR-1001 CAR-1001 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1310 CW-1310 CW-1310 CW-1310 CW-1310 CW-1310 CW-1310 CW-1320 CW-1410 CW-1421 CW-1422 CW-1423 CW-1423 CW-1423	0 • • • • • • • • • • • • • • • • • • •	Tree Felling Works Access Road (AR3), B-1 Site setup and clearance wroks Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC/2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	05 055 215-1 215-2	0 days 193 days 28 days	NA	Tue 4/2/20 Thu 5/3/20	89 days 78 days	Mon 18/11/19 Fri 29/11/19	Fri 6/3/20 Thu 5/3/20	Mon 18/11/19 Fri 29/11/19	Fri 6/3/20 125,197 Thu 5/3/20 198	199,172,173FS+120 days,200	0 days 0 days	+	100%	
CAR-1000 CAR-1001 CAR-1001 CAR-2000 CAR-200)	Site setup and clearance wroks Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	055 215-1 215-2	28 days	Mon 20/1/20	NA	9 days	Sat 7/3/20	Tue 17/3/20	Sat 7/3/20	Tue 17/3/20 198		0 days		100%	
CAR-1001 CAR-1002 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2002 CAR-2000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1310 CW-1310 CW-1310 CW-1405 CW-1421 CW-1423 CW-1423 CW-1423	2 a b 2 	Awaiting for AECOM instruction for alignment confirmation for road works Additional Works in Access Road AR3 to Settle Left-in Material by Contract DC2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	055 215-1 215-2		Mon 20/1/20 Mon 20/1/20	Sat 12/9/20 Mon 24/2/20	238 days 38 days	Thu 12/12/19 Mon 20/1/20	Wed 30/9/20 Fri 6/3/20	Thu 12/12/19 Mon 20/1/20	Wed 30/9/20 4,156 Fri 6/3/20	203	0 days 0 days		100% 100%	
CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1300 CW-1300 CW-1340 CW-1410 CW-1400 CW-1421 CW-1423 CW-1423	la la lb lb kD1A *	DC:2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	215-2		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%	
CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CAR-2000 CW-1000 CW-1000 CW-1000 CW-1000 CW-1300 CW-1300 CW-1300 CW-1300 CW-1340 CW-1410 CW-1400 CW-1421 CW-1423 CW-1423	la la lb lb kD1A *	DC:2016/07 Drainage and Utilities Works Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A	215-2	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%	1
CAR-2000a CAR-2000 CAR-2001 CAR-2020 CA	la lb lb k k b k b la k	Trimming of Existing Sheet Piles in Access Road AR3 Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A					-									
CAR-2000b CAR-2001 CAR-2002 CAR-3000 CW-1000 CW-1000 CW-1000 CW-1200 CW-1200 CW-1300 CW-1300 CW-1300 CW-1300 CW-1300 CW-1300 CW-1400 CW-1400 CW-1420 CW-1420 CW-1423 CW-1423 CW-1423	kD1A	Installation of Multi-part Cover and Manhole Cover of Chamber RP6 and Associated Concreting Works in Portion B-1 Diversion of Existing Underground Cables in Portion B-1A		76 days 0 days	Fri 6/3/20 NA	Tue 9/6/20 NA	75 days 20 days	Sat 7/3/20 Tue 14/7/20	Tue 9/6/20 Wed 5/8/20	Sat 7/3/20 Tue 14/7/20	Tue 9/6/20 204 Wed 5/8/20 205	206 207	0 days 0 days	+	100% 100%	
CAR-2002 CAR-3000 CIW-000 CIW-1000 CIW-1100 CIW-1300 CIW-1300 CIW-1300 CIW-1310 CIW-1300 CIW-1310 CIW-1320 CIW-1340 CIW-1400 CIW-1400 CIW-1420 CIW-1420 CIW-1423 CIW-1423 CIW-1423	KD1A	Diversion of Existing Underground Cables in Portion B-1A	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
CAR-3000 CW-0000 CW-1000 CW-1000 CW-1200 CW-1300 CW-1300 CW-1310 CW-1310 CW-1310 CW-1310 CW-1310 CW-1410 CW-1420 CW-1420 CW-1420 CW-1421 CW-1423 CW-1423	KD1A	Additional U-channel, beam barrier and footway concrete pavement	036	0 days	NA	NA	172 days	Thu 5/3/20	Wed 30/9/20	Thu 5/3/20	Wed 30/9/20 207	210	0 days	+	100%	1
CW-0000 CW-1000 CW-1000 CW-1000 CW-1200 CW-1200 CW-1300 CW-1300 CW-1300 CW-1300 CW-1400 CW-1400 CW-1405 CW-1400 CW-1421 CW-1421 CW-1422 CW-1423 CW-1423 CW-1423 CW-1424 CW-1424 CW-1425 CW-1425	*	Roadworks	055	0 days 80 days	NA Wed 10/6/20	NA Sat 12/9/20	60 days	Thu 12/12/19 Fri 24/4/20	Wed 26/2/20 Wed 30/9/20	Thu 12/12/19 Fri 24/4/20	Wed 26/2/20 Wed 30/9/20 126,209,208	210 42FF	0 days 0 days		100% 100%	-
CIW-1100 CIW-1200 CIW-1300 CIW-1300 CIW-1310 CIW-1310 CIW-1320 CIW-1330 CIW-1330 CIW-1340 CIW-1410 CIW-1410 CIW-1421 CIW-1421 CIW-1423 CIW-1423 CIW-1423		Iniet Works No.1, B-2		80 days 854 days	Mon 6/1/20	Mon 21/11/22	133 days 594 days	Tue 26/11/19	Thu 25/11/21	Tue 26/11/19	NA	7611	0 days		100% 88%	
CIW-1200 CIW-1300 CIW-1300 CIW-1320 CIW-1320 CIW-1320 CIW-1320 CIW-1400 CIW-1405 CIW-1405 CIW-1420 CIW-1421 CIW-1423 CIW-1423 CIW-1423 CIW-1423		Diversion Works (1. Inlet Trunk Sewer, Leachate Rising Mains, Sludge Pipes, Tank Drains and Pipelines near Primary Sludge Thinkeners)		180 days	Mon 6/1/20	Fri 14/8/20	459 days	Tue 26/11/19	Wed 16/6/21	Tue 26/11/19	NA 184,123	44FF	111 days		88%	l.
CIW-1200 CIW-1300 CIW-1300 CIW-1320 CIW-1320 CIW-1320 CIW-1320 CIW-1400 CIW-1405 CIW-1405 CIW-1420 CIW-1421 CIW-1423 CIW-1423 CIW-1423 CIW-1423																1
CIW-1300 CIW-1310 CIW-1320 CIW-1320 CIW-1320 CIW-1320 CIW-1320 CIW-1400 CIW-1405 CIW-1405 CIW-1420 CIW-1422 CIW-1423 CIW-1423 CIW-1424 CIW-1425		Utilities scanning to idenify existing UU arrangement Trial pits to locate the collection points		12 days 24 days	Mon 6/1/20 Mon 6/1/20	Sat 18/1/20 Wed 5/2/20	0 days 0 days	Fri 13/12/19 Mon 6/1/20	Sat 18/1/20 Tue 10/3/20	Fri 13/12/19 Mon 6/1/20	Sat 18/1/20 158 Tue 10/3/20 158,213SS,124	214SS,216 232,251	0 days 0 days		100%	
CIW-1320 CIW-1330 CIW-1340 CIW-1400 CIW-1405 CIW-1405 CIW-1420 CIW-1421 CIW-1422 CIW-1423 CIW-1423 CIW-1423		Installation and Commissioning of Temporary Activated Carbon		0 days	NA	NA	98 days	Wed 11/3/20	Sat 11/7/20	Wed 11/3/20	Sat 11/7/20	202,201	0 days		100%	
CIW-1320 CIW-1330 CIW-1340 CIW-1400 CIW-1405 CIW-1405 CIW-1420 CIW-1421 CIW-1422 CIW-1423 CIW-1423 CIW-1423		Deodorization Unit for the Existing Inlet Works		0 days	NA	NA	24 days	Wed 11/3/20	Wed 8/4/20	Wed 11/3/20	Wed 8/4/20 213	217	0 davs		100%	· · · ·
CIW-1340 CIW-1400 CIW-1405 CIW-1410 CIW-1420 CIW-1421 CIW-1422 CIW-1423 CIW-1423 CIW-1424 CIW-1424		Installation of Deodorizer		0 days	NA	NA	40 days	Thu 9/4/20	Sat 30/5/20	Thu 9/4/20	Sat 30/5/20 216	218	0 days		100%	
CIW-1400 CIW-1405 CIW-1410 CIW-1420 CIW-1420 CIW-1422 CIW-1423 CIW-1423 CIW-1423 CIW-1424 CIW-1425		Testing & commissioning Demolishment of the existing carbon deodorization unit		0 days 0 days	NA	NA	15 days 20 days	Mon 1/6/20 Wed 17/6/20	Wed 17/6/20 Sat 11/7/20	Mon 1/6/20 Wed 17/6/20	Wed 17/6/20 217 Sat 11/7/20 218FS-1 day	219FS-1 day	0 days 0 days		100%	1
CIW-1410 CIW-1420 CIW-1421 CIW-1422 CIW-1423 CIW-1423a CIW-1423a CIW-1424 CIW-1425		Diversion of Inlet Trunk Sewer (approx. 40m 1800mm dia concrete pipe, 4 deep manholes and Inlet Reception Chamber)		146 days	Thu 6/2/20	Mon 3/8/20	451 days	Mon 9/3/20	Mon 13/9/21	Mon 9/3/20	NA		0 days		97%	
CIW-1410 CIW-1420 CIW-1421 CIW-1422 CIW-1423 CIW-1423a CIW-1423a CIW-1424 CIW-1425		pipe, + deep mannoles and milet reception chamber)														I I
CIW-1420 CIW-1421 CIW-1422 CIW-1423 CIW-1423 CIW-1423a CIW-1424 CIW-1425		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%	1
CIW-1421 CIW-1422 CIW-1423 CIW-1423 CIW-1423a CIW-1424 CIW-1425		Remedial Works for uncharted sludge Pipe leakage Diversion of uncharted DN250 sludge pipe	41	0 days 0 days	NA	NA	8 days 27 days	Mon 9/3/20 Tue 31/3/20	Tue 17/3/20 Thu 7/5/20	Mon 9/3/20 Tue 31/3/20	Tue 17/3/20 221 Thu 7/5/20 222	223 230,224,225	0 days 0 days		100%	
CIW-1423 CIW-1423a CIW-1424 CIW-1425		Diversion of uncharted 2' water pipe	24	0 days	NA	NA	9 days	Wed 15/4/20	Fri 24/4/20	Wed 15/4/20	Fri 24/4/20 223	230	0 days		100%	
CIW-1423a CIW-1424 CIW-1425		Additional Underground Utility Scanning for existing sludge pipe HV Cable Diversion for Inlet Works	32 84	0 days 0 days	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 Sat 10/10/20	Sat 18/4/20 223 Wed 24/3/21		0 days 0 days		100% 100%	
CIW-1425	a	Exposing, Removal and Diversion of Existing Cables near Inlet Works No. 1	236	0 days	NA	NA	268 days	Mon 4/5/20	Wed 24/3/21	Mon 4/5/20	Wed 24/3/21		0 days		100%	1
		Diversion of Existing Sludge Rising Main and Sewerage System	81	0 days	NA	NA	102 days	Mon 28/9/20	Sat 30/1/21	Mon 28/9/20	Sat 30/1/21	307,309,279,280	0 days	+	100%	i
CIW-1430		Demolition of Deodorization System and Facilities between Existing Primary Sludge Thickeners and Primary Sludge Pump Pit	037	0 days	NA	NA	1 day	Fri 28/8/20	Fri 28/8/20	Fri 28/8/20	Fri 28/8/20		0 days		100%	1
		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%	
CIW-1440		Remedial works for uncharted pipe and unforeseen water seepage	273	0 days	NA	NA	10 days	Fri 8/5/20	Tue 19/5/20	Fri 8/5/20	Tue 19/5/20 230	232,233	0 days		100%	
CIW-1450		Trench Excavation for 1800mm dia pipeline and manholes		146 days	Thu 6/2/20	Mon 3/8/20	238 days	Wed 11/3/20	Mon 28/12/20	Wed 11/3/20	Mon 28/12/20 214,231		0 days	<u> </u>	100%	
CIW-1450a	a	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%	
CIW-1450b		Trench Excavation for 1800mm dia pipeline and manholes		45 days	Thu 6/2/20	Sat 28/3/20	22 days	Thu 18/6/20	Wed 15/7/20	Thu 18/6/20	Wed 15/7/20 233	235,247	0 days		100%	
CIW-1450c	c	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%	1
CIW-1450d	d	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
CIW-1450e	e	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.
		and Sheetpile installation														1
CIW-1450f	'	Revised type of pipe bedding between Manholes no. MHA01 and MHA02	096	0 days	NA	NA	6 days	Sat 3/10/20	Fri 9/10/20	Sat 3/10/20	Fri 9/10/20 237,235	239	0 days		100%	
CIW-1450g	g	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%	
CIW-1450h		Grade 200 Rockfill in ELS cofferdam of IRC	(161)	0 days	NA	NA	3 days	Wed 23/12/20	Mon 28/12/20	Wed 23/12/20	Mon 28/12/20	241	0 days	+	100%	1
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%	
CIW-1452		Enlarged size of Manhole MHA02	052	0 days	NA	NA	6 days	Tue 1/9/20	Mon 7/9/20	Tue 1/9/20	Mon 7/9/20	241	0 days		100%	1
CIW-1453		Additional Works for Manhole MHA01 Construction and Pipe Connection to Manhole MHA01	(094) (146)	0 days	NA	NA	160 days	Wed 16/9/20	Wed 31/3/21	Wed 16/9/20	Wed 31/3/21 235,237	241	0 days		100%	1
CIW-1454	-	Additional Works for IRC and Pipe Connection to IRC from Existing	(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%	
CIW-1455		Manhole FMH1004115 Removal of left-in sheetpiles at IRC	381	0 days	NA	NA	3 days	Mon 19/10/20	Wed 21/10/20	Mon 19/10/20	Wed 21/10/20 244		0 days		100%	i.
CIW-1456	_	Compliance Test for DN1800 Precast Concrete Pipe	065	0 days	NA	NA	1 day	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20	Fri 18/9/20		0 days	+	100%	
CIW-1457 CIW-1458		Lay 1800mm dia concretre pipe Connection to existing Inlet Chamber		24 days 12 days	Sat 20/6/20 Tue 21/7/20	Mon 20/7/20 Mon 3/8/20	88 days 12 days	Thu 17/9/20 Tue 26/1/21	Mon 25/1/21 Mon 8/2/21	Thu 17/9/20 Tue 26/1/21	Mon 25/1/21 234,235,244 Mon 8/2/21 247	248 307,44FF	0 days 0 days		100%	1
CIW-1458		Diversion of Leachate Rising Main, Sludge Pipes and Tank Drain		150 days	Thu 6/2/20	Fri 7/8/20	594 days	Tue 26/11/19	Thu 25/11/21	Tue 26/11/19	NA		-99 days		94%	
CIW-1510				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%	
		Diversion of Tank Drain MHD9.5 (approx 70m CHES1 & CHES2)														•
CIW-1500a	KD1B	Diversion of Tank Drain MHD9.5 (approx. 70m CHES1 & CHES2) 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%	



Wu Hui Effluent Polishing Activity ID Key 1	g Plant - Main Works Stage 1 Task Name	Inclement PMI & CE no	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Slack	Risk % Complete					
Date		Weather (NCE no.) CE no.		Subonno Oldit	Saconito i Illisti	Suration	Sidit	an A			500000010	I GIGI OldUK	Allowance		2020		2022	2024
CIW-1500b	Joint Initial Survey arrangement with MTRCL	(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	100%	Qtr 3	Qtr 1 Qtr 3 Qtr 1	Qtr 3	2022 Otr 1 Otr 3 Otr 1 Otr 3	Qtr 1 Qtr 3 Qtr 1
CIW-1500c	Site Clearance & inspection pit excavation under conforming alignments		0 days	NA	NA	36 days	Fri 12/6/20	Sat 25/7/20	Fri 12/6/20	Sat 25/7/20		0 days	100%	5		1		l l
CIW-1511	Tank Drain Diversion near MTRCL track		0 days	NA	NA	248 days	Thu 11/6/20	Mon 12/4/21	Thu 11/6/20	Sat 10/4/21		0 days	100%	5		1		
CIW-1511a	Excavation of trial pit near MHD9.5 (TP45 & 47)	040	0 days	NA	NA	12 days	Mon 27/7/20	Sat 8/8/20	Mon 27/7/20		256,260	0 days	100%			i.	I.	
CIW-1511b CIW-1511c	Uncharted cables found near MTRC track and identificati Excavation of trial pit near MHD8.5	in	0 days 0 days	NA	NA	1 day 5 days	Thu 18/6/20 Fri 19/6/20	Thu 18/6/20 Wed 24/6/20	Thu 18/6/20 Fri 19/6/20		258	0 days 0 days	100%			1		1
CIW-1511d	Lower the ground surface, opening and additional trial pit (TP38)	(046)	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 257	259	0 days	100%	2		1		
CIW-1511e	Excavation of Trial Pits near Manhole MHA04 and MH09	040	0 days	NA	NA	60 days	Thu 11/6/20	Fri 21/8/20	Thu 11/6/20	Fri 21/8/20 258		0 days	100%			1		1
CIW-1511f	Additional Trial Pit between MHD9.5 and MHA04	040	0 days	NA	NA	25 days	Fri 21/8/20	Fri 18/9/20	Fri 21/8/20	Fri 18/9/20 255		0 days	100%	-	=	1		1
CIW-1511g CIW-1511h	Sheetpile installation for MHD9.5 Sheetpile installation between MHD9.5 & MHA04		0 days 0 days	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%			i.	1	
CIW-1511i	UU supporting & ELS works& excavatuib between MHD9 & MHA04	5	0 days	NA	NA	73 days	Wed 7/10/20	Mon 4/1/21	Wed 7/10/20			0 days	100%			1		1
CIW-1511i	Unsuit excavated material from MHD9.5 to MHA04	261	0 days	NA	NA	4 days	Fri 20/11/20	Tue 24/11/20	Fri 20/11/20	Tue 24/11/20		0 days	100%			1		
CIW-1511k	Revise design of manhole MHD9.5	(167)	0 days	NA	NA	20 days	Thu 7/1/21	Fri 29/1/21	Thu 7/1/21	Fri 29/1/21		0 days	100%			i.		1
CIW-15111	Break up opening and plugging existing concrete pipe at MHD9.5		0 days	NA	NA	6 days	Mon 18/1/21	Sat 23/1/21	Mon 18/1/21	Sat 23/1/21		0 days	100%			1		1
IW-151111	Trimming existing concrete pipe at MHD9.5		0 days	NA	NA	13 days	Fri 22/1/21	Fri 5/2/21	Fri 22/1/21	Fri 5/2/21		0 days	100%			i.		1
CIW-151112 CIW-1511m	Construction of manhole MHD9.5 Additional work to prevent backflow from MHI1 to MHD9.	(176)	0 days 0 days	NA	NA	49 days 9 days	Sat 6/2/21 Mon 18/1/21	Sat 10/4/21 Wed 27/1/21	Sat 6/2/21 Mon 18/1/21			0 days 0 days	100%			1	1	1
IW-1511n	Sewage overflow incident of MHD11	(170)	0 days	NA	NA	9 days	Sat 13/2/21	Thu 25/2/21	Sat 13/2/21			0 days	100%			1		1
CIW-1512	Additional Special manhole for tank drain (NCE)		0 days	NA	NA	35 days	Mon 24/8/20	Mon 5/10/20	Mon 24/8/20		272,273	0 days	100%		-	i -	l l	
IW-1513	Breaking of concrete surround of cables (0.8mx0.8mx70m) (NCE)		0 days	NA	NA	24 days	Tue 8/9/20	Wed 7/10/20	Tue 8/9/20	Wed 7/10/20 271		0 days	100%	2		1	1	1
CIW-1514 KD1B	Construction of tank drain along revised alignment w/ concre surround	te 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%	>		i.		
W-1516	Backfilling trench between MHD9.5 & MHA04		0 days	NA	NA	20 days	Sat 16/1/21	Mon 8/2/21	Sat 16/1/21	Mon 8/2/21		0 days	100%			1	1 	
IW-1520	Diversion of Sludge Pipes		75 days	Tue 21/4/20	Tue 21/7/20	364 days	Mon 11/5/20	Thu 29/7/21	Mon 11/5/20	NA	0	0 days	96%		•		1	í I
W-1520a W-1520b	Excavation of trial pit and identification of connection point Trench excavation for twin DN250 sludge pipe ,on hold due to	351	0 days 75 days	NA Tue 21/4/20	NA Tue 21/7/20	103 days 4 days	Mon 11/5/20 Wed 15/7/20	Wed 9/9/20 Sat 18/7/20	Mon 11/5/20 Wed 15/7/20		277 278	0 days 0 days	100%			i.		
	encounter of uncharted sludge pipe															1	1	l I
W-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%			1		l.
IW-1520d	Temporary diversion of substandard DI 250 Leachate raising m	in 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%	•	-	1	1 	i Í
W-1520e	Protection work for substandard DI 500 tank drain Pipe (near M	1D 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%			1	1	Í I
	9.5)															i.		
IW-1520f	Encounter of uncharted concrete pipe within sheetpile cofferdat MHA04	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	1	I I
CIW-1520g	Resumption and construction of sludge pipe construction		0 days	NA	NA	253 days	Sat 19/9/20	Thu 29/7/21	Sat 19/9/20	NA 281	307,44FF	-36 days	91%	b				1
CIW-1530	Diversion of Leachate Rising Main Diversion of pipelines near Primary Sludge Thickeners (approx.		60 days 156 days	Tue 21/4/20 Thu 6/2/20	Fri 3/7/20 Fri 14/8/20	60 days 570 days	Tue 14/9/21 Tue 26/11/19	Thu 25/11/21 Thu 28/10/21	NA Tue 26/11/19	NA 241		-135 days 0 days	0%			8222	1	1
1000	180m long 150mm to 375mm concrete pipes)		156 days	110 6/2/20	F11 14/0/20	570 days	108 20/11/19	1110 20/10/21	100 20/11/19	NA		0 days	55%					
IW-1610	Trench Excavation from W/H MHD1E to MHD5 (approx. 90m long- M/Hs MHD1A, 1B, 1C, 1D & 1E) - realigned	ith 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%	•	26/11			1
IW-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	1		1
W-1621	Temporary Diversion of Existing DN200 Filitrate Rising Main	034	0 days	NA	NA	20 days	Sat 1/8/20	Mon 24/8/20	Sat 1/8/20	Mon 24/8/20	288	0 days	100%	-		i -	1	l.
V-1623 V-1625	Pipeline Diversion Works near Primary Sludge Thickening Tank Uncharted underground utilities near Proposed MHD5B	(114) 0260	0 days 0 days	NA	NA	30 days 26 days	Fri 16/4/21 Mon 24/5/21	Sat 22/5/21 Wed 23/6/21	Fri 16/4/21 Mon 24/5/21		289 290,293	0 days 0 days	100%			1	1	
V-1630	Trench Excavation from M/H (approx. 90m long with M/Hs M1A to	0200	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%		_	i.		
IW-1640	M3B) Manholes construction (M1A, M1B, M2B, M3B) and Pipe laying		05 dava	Mon 15/6/20	Wed 15/7/20	10 10.00	Mar. 4/5/00	Sat 16/5/20	Mag 4/5/00	0-140/5/00 000 000	43FF	0.45.05	100%			1		1
CIW-1650	Trench Excavation from MHD5 to MHD9.5 (approx. 90m long with	(114)	25 days 50 days	Thu 16/7/20	Fri 11/9/20	12 days 60 days	Mon 4/5/20 Wed 2/9/20	Wed 30/12/20	Mon 4/5/20 Wed 2/9/20		43FF	0 days 0 days	100%		· · · ·	1		
	M/Hs MHD5A & 5B)	07		NA	ΝΔ		T 10/11/00	TI 00/40/04	T 10/11/00		004		754	-		i i		1
CIW-1660 CIW-1670	Provision of Pumping System from Screen to Flume Channel Manholes construction (MHD5A, MHD5B, MHD5C) and Pipe layin	87	0 days 45 days	NA Sat 23/5/20	Thu 16/7/20	287 days 293 days	Tue 10/11/20 Tue 3/11/20	Thu 28/10/21 Thu 28/10/21	Tue 10/11/20 Tue 3/11/20	NA 289 NA 293	294 44FF	-111 days -111 days	75%			0,000		
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%	b		pi – Li	1	
CIW-2100	Primary Sludge Thickening Tank No.1 and No.2		80 davs	Mon 2/3/20	Tue 9/6/20	222 davs	Thu 19/3/20	Tue 15/12/20	Thu 19/3/20	Tue 15/12/20	292	0 days	100%			1	1	
CIW-2101	Additional Works for Temporary Diversion of Bypass Pipe near		0 days	NA	NA	45 days	Thu 19/3/20	Sun 17/5/20	Thu 19/3/20			0 days	100%		1	1		1
CIW-2110	Primary Sludge Thickeners Removal of E&M equipment of primary sludge thickening tank		0 days	NA	NΔ	1 day	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20	Thu 4/6/20	299	0 days	100%			i -		
CIW-2120	Decommission and Demolition the tank		80 days	Mon 2/3/20	Tue 9/6/20	150 days	Thu 18/6/20	Tue 15/12/20	Thu 18/6/20	Tue 15/12/20 298	301	0 days	100%	5		1		
CIW-2130 CIW-2200	Demolition of structure no.2		0 days	NA	NA Thu 00/0/00	24 days	Mon 18/5/20	Mon 22/6/20	Mon 18/5/20		000 000 000 004	0 days	100%		-	i -	1	i I
CIW-2300	Primary Sludge Pump Pit Septic Tank		60 days 50 days	Wed 10/6/20 Fri 21/8/20	Thu 20/8/20 Tue 20/10/20	18 days 18 days	Wed 22/7/20 Wed 12/8/20	Tue 11/8/20 Tue 1/9/20	Wed 22/7/20 Wed 12/8/20		302,303,292,304	0 days 0 days	100%			1	1	1
CIW-2400	Diesel Tank		50 days	Wed 21/10/20	Fri 18/12/20	53 days	Thu 2/7/20	Tue 1/9/20	Thu 2/7/20	Tue 1/9/20 301	292	0 days	100%		-	1		1
CIW-2410 CIW-2420	Transfers of Remaining Diesel Fuel of Existing Diesel Tank Demolition of diesel tank		0 days 50 days	NA Wed 21/10/20	NA Fri 18/12/20	15 days 18 days	Thu 2/7/20 Wed 12/8/20	Tue 21/7/20 Tue 1/9/20	Thu 2/7/20 Wed 12/8/20		305 292	0 days 0 days	100%			1	1	1
W-3000 *	Inlet Works No.1 Building (1)		569 days	Sat 19/12/20	Mon 21/11/22	747 days	Tue 15/9/20	Thu 23/3/23	Tue 15/9/20			748 days	18%			•		
IW-3100 IW-3100a	Predrilling (10nrs, 1rigs, 2.5days/drillhole/rig) - stage 1 Predrilling (22nrs, 1rigs, 2.5days/drillhole/rig) - stage 2		40 days 0 days	Mon 4/1/21 NA	Mon 22/2/21 NA	28 days 60 days	Tue 15/9/20 Tue 8/12/20	Mon 19/10/20 Mon 22/2/21	Tue 15/9/20 Tue 8/12/20			0 days 0 days	1 100%			i -	1	
IW-3200	Pre-bored H piles (188nos, 1.8rigs, 2days/rig/pile)		133 days	Tue 23/2/21	Wed 4/8/21	210 days	Fri 19/2/21	Tue 2/11/21	Fri 19/2/21	NA 228,132	310SS+150 days,311	-34 days	5 63%	-			1	
W-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%				1	l.
W-3400b W-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 309 NA 310	328,313 315	-34 days 83 days	0%				1	i Í
W-3300b	Sheetpile Installation at Phase B (2300sq.m, 1rigs, 50sqm/rig/day)		0 days	NA	NA	50 days	Sat 27/11/21	Thu 27/1/22	NA	NA 311	316	-34 days	0%	5				
W-3500 W-3510	ELS works Phrase C (Grid G3 to L7)) - Excavation to -3.3mPD and blinding (strut		77 days	Sat 4/9/21 Fri 4/6/21	Mon 6/12/21	157 days	Sat 23/10/21	Fri 6/5/22 Mon 24/1/22	NA NA	NA NA 312	334,165SF,169SF 320,333	3 days	5 0%	•				i I
	2 layers, excavate soil 2250 cu.m)		77 days		Mon 6/12/21	77 days	Sat 23/10/21	woft 24/1/22	NA			83 days	0%				1	l I
W-3520	Phrase B (Grid A1 to G3) - Excavation to -7.5mPD and blinding (strutt 4 layers, excavate soil 11000cu.m)	ng	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%	,		i -	E22222	
W-3590	Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Mon 30/8/21	Mon 30/8/21	NA	NA 318SS-3 emons		1211 days	0%		I I	1	1	l L
W-3600	R.C. Structure works		296 days	Thu 5/8/21	Thu 4/8/22	300 days	Sat 27/11/21	Thu 1/12/22	NA	NA	317SS-3 emons,332	-34 days	5 0%			j 🖻	·	l.
W-3610 W-3611	Phase C (Grid G3 to L7) Rebar fix and formwork and concreting for the pile cap (G/F)		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 315	321	114 days 114 days	0%			1		i I
	(including ELS demolition works)												0%	_		1	1	Í I
IW-3612 IW-3613 KD1C	Rebar fix and formwork and concreting upto +13.45mPD (1/F) Rebar fix and formwork and concreting upto +25.80mPD (R/F)		25 days 40 days	Tue 21/9/21 Sat 23/10/21	Fri 22/10/21 Wed 8/12/21	25 days 40 days	Wed 16/3/22 Tue 19/4/22	Thu 14/4/22 Tue 7/6/22	NA	NA 320 NA 321	322 44FF,331,524	114 days 114 days	0%			i -		
W-3620	Phase B (Gride A1 to G3)		193 days	Tue 7/12/21	Thu 4/8/22	173 days	Sat 7/5/22	Thu 1/12/22	NA	NA		-34 days	0%	-	1	1		l l
W-3621	Rebar fix and formwork and concreting for the Inlet Works structur upto Ground Level (including ELS demolition works)		54 days	Tue 7/12/21	Mon 14/2/22	54 days	Sat 7/5/22	Tue 12/7/22	NA	NA 316	325	-34 days	0%	2		i.	SSS	l.
W-3622	Apply waterproofing membrance and backfilling		14 days	Tue 15/2/22	Wed 2/3/22	14 days	Wed 13/7/22	Thu 28/7/22	NA	NA 324,185	326	-34 days	0%		1	1		
W-3623 KD1C	Rebar fix and formwork and concreting for the Inlet Works structur upto Roof Level		105 days	Thu 3/3/22	Thu 4/8/22	105 days	Fri 29/7/22	Thu 1/12/22	NA	NA 325	331	-34 days	0%	2		1		
W-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%		I	i –	<u>.</u>	, I
W-3631	Rebar fix and formwork and concreting for the Inlet Works structur		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%	•				l I
IW-3632	upto Ground Level (including ELS demolition works) 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	00/			i.		
W-3633 KD1C	Rebar fix and formwork and concreting for the Inlet Works structur		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%	5	1	1		
W-3700 KD10	upto Roof Level	ke	0 dave	Thu 4/8/22	Thu 4/8/22	0 dava	Thu 1/10/00	Thu 1/10/00	NA	NA 330.322.326	44FF	-94 down	0%	-		1	♦ 1/12	l.
CIW-3700 KD1C	Allow access to Contractor DE/2018/04 for E&M installation and T&C wo	N3	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%		I I	1	◆ 1/12	1
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%	5		1		l.
CIW-3900 KD1D 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	50 days 60 days	Sat 17/12/22 Sat 7/5/22	Mon 20/2/23 Tue 19/7/22	NA	NA 315,351FF NA 314	45FF 57FF,555	0 days 3 days	0%		i I	1		
PS-0000 *	Primary Sedimentation Tanks, B-3 (2)		1115 days	Mon 18/11/19	Wed 23/8/23	1115 days	Mon 18/11/19	Wed 23/8/23	Mon 18/11/19	NA 8		139 days	44%		· · · · · · · · · · · · · · · · · · ·			
CPS-1000 CPS-1100	Operation of the Existing Primary sedimentation Tanks Identification of existing cables near Primiary Sedimentation Tank	89	615 days 0 days	Mon 18/11/19	Sat 24/7/21	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%			i i		I
CPS-1100 CPS-1200	Identification of existing cables near Primiary Sedimentation Tank Removal of residual sludge	00	0 days 0 days	NA	NA	3 days 12 days	Fri 19/2/21 Mon 26/7/21	Mon 22/2/21 Sat 7/8/21	Fri 19/2/21 NA	Mon 22/2/21 NA 336	339	0 days -62 days	100%				1	l I
CPS-2000	Demolition of existing primary sedimentation tanks no. 1		45 days	Mon 13/12/21	Wed 9/2/22	30 days	Mon 9/8/21	Sat 11/9/21	NA	NA 122,160,162,336,338	342,340	-62 days	0%			8		
PS-2000a	Demolition of existing primary sedimentation tanks no. 2		0 days 0 days	NA	NA	25 days 15 days	Mon 13/9/21 Thu 8/4/21	Wed 13/10/21 Sat 24/4/21	NA Thu 8/4/21	NA 339 Sat 24/4/21	342 343	-62 days 0 days	0%		-	1 🔯	1	1
PS-3000a	Predrilling (5nrs, 1rigs, 3days/drillhole/rig) - In-advanced stage																	

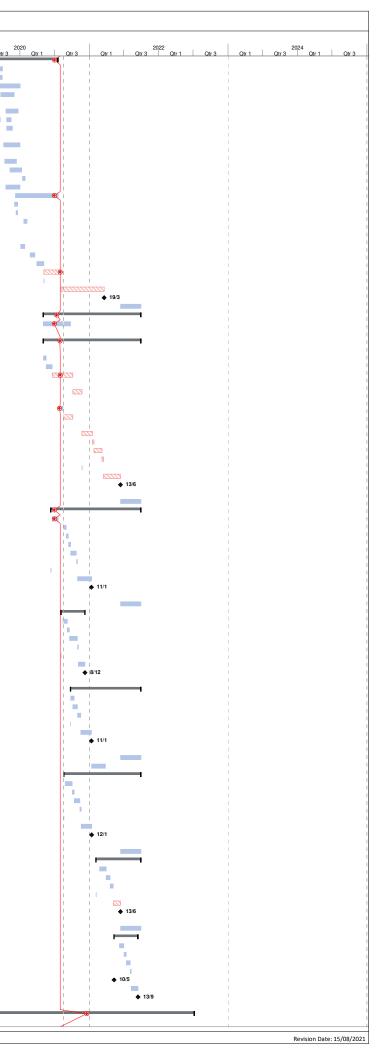
ID Activity ID K		g Plant - Main Works Stage 1	P 2	Desetti Ot	Dennin Ciri	Dura d	C1	El-1-h		Works Programme (Status Date: 31/07/2021)	e	THEORY	Diak -	ta	
D	Key Date	Task Name Inclement I PMI & CE Weather (NCE no.) CE no.	no. Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish Ac	tual Start A	Actual Finish Predecessors	Successors	Total Slack	Risk % Comple Allowance		2020
342 CPS-3000		Predrilling (63nrs, 3rigs, 3days/drillhole/rig)	38 days	Thu 10/2/22	Fri 25/3/22	38 days	Fri 15/10/21	Sat 27/11/21	NA	NA 127,452,339,340	343	-62 days	1	Qt 0%	tr 3 Otr 1 Otr 3
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 132,453,341,342 NA 343FS-40 days,133	344FS-40 days,346,345 346,352SS+27 days	-62 days -62 days	5	0%	l I
345 CPS-6000		Pile Load Test	26 days	Tue 2/8/22	Wed 31/8/22	26 days	Thu 23/6/22	Sat 23/7/22	NA	NA 343	346	0 days		0%	
346 CPS-7000 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 343,135,345,344 NA 346FF-3 emons	347FF-3 emons,348,166SF,1 348SS-3 emons	70SF 0 days 186 days	3	0%	
348 CPS-8000 K		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%	l I
349 CPS-9000 K 350 CPS-10000 S		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 348 NA 348,189,141	45FF 56FF	0 days 139 days		0%	
351 CPS-11000 K	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 S	SW2	Process Pipe CHG chainage 0-50, CHH chainage 0-80, CHI chainage 0-95 & CHJ chianage 0-40 and surrounding utilities	0 days	NA	NA	100 days	Wed 8/6/22	Thu 6/10/22	NA	NA 344SS+27 days	57FF,555	-62 days		0%	
353 CBR-0000 * 354 CBR-1000	*	Bioreactors No.2A & 2B, B-4 (3)	1106 days	Mon 18/11/19	Sat 12/8/23	1194 days	Mon 18/11/19 Mon 18/11/19	Mon 27/11/23	Mon 18/11/19 Mon 18/11/19	NA 9		546 days		38% 100%	
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 67	360 days 0 days	Mon 18/11/19 NA	Wed 11/11/20 NA	292 days 86 days	Thu 1/10/20	Wed 11/11/20 Fri 15/1/21	Thu 1/10/20	Wed 11/11/20 2 Fri 15/1/21 144	365	0 days 0 days		100%	
356 CBR-4100		and 3 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 358 CBR-4300		Installation of monitoring points before demolition of BR2 219 Condition Survey for BR2	0 days 0 days	NA	NA NA	5 days 1 day	Wed 27/1/21 Fri 30/10/20	Mon 1/2/21 Fri 30/10/20	Wed 27/1/21 Fri 30/10/20	Mon 1/2/21 363 Fri 30/10/20 357	358 366	0 days 0 days		100%	
359 CBR-5000		Demolition of existing bioreactor no.2	60 days	Wed 3/2/21	Tue 20/4/21 NA	98 days	Tue 10/11/20	Wed 10/3/21	Tue 10/11/20	Wed 10/3/21 122,162	004.005	0 days		100%	-
360 CBR-5100 361 CBR-5300		Identification and removal of existing cables on air main pipe bridge 210 Plugging and demolition of existing DN800 air main	0 days 0 days	NA	NA	35 days 5 days	Tue 10/11/20 Mon 28/12/20	Sat 19/12/20 Sat 2/1/21	Tue 10/11/20 Mon 28/12/20	Sat 19/12/20 Sat 2/1/21 360	361,365	0 days 0 days		100% 100%	
362 CBR-5200		Diversion of existing lighting cable and Earthing ducts_stage 1 264	0 days	NA	NA NA	43 days	Fri 4/12/20	Tue 26/1/21	Fri 4/12/20	Tue 26/1/21 363	366	0 days		100%	-
363 CBR-5400 364 CBR-5410		Overflow incident from BR1 to BR2 works area no.1 (Dec 2020) 285 Overflow incident from BR1 to BR2 works area (Feb 2021) 340	0 days 0 days	NA	NA	33 days 8 days	Fri 18/12/20 Tue 16/2/21	Thu 28/1/21 Wed 24/2/21	Fri 18/12/20 Tue 16/2/21	Thu 28/1/21 364 Wed 24/2/21 365	357,362 366,363	0 days 0 days		100% 100%	
365 CBR-3000		Construction of Isolation Wall & stoplog in common channel of BR2 & 277 BR3	0 days	NA	NA	43 days	Sat 16/1/21	Wed 10/3/21	Sat 16/1/21	Wed 10/3/21 355,360	364	0 days		100%	
366 CBR-5500		Demolition of existing pipe bridge, partition wall and base slab (Stage 1)	30 days	Wed 3/2/21	Fri 12/3/21	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21 362,358,364,356	367SS,368	0 days		100%	
367 CBR-5520		Removal of additional concrete infill within the partition walls (174)	0 days	NA	NA	26 days	Tue 2/2/21	Sat 6/3/21	Tue 2/2/21	Sat 6/3/21 366SS	368	0 days		100%	
368 CBR-5900		Construction of precautionary measures (i.e. isolation wall) 322	0 days	NA	NA	2 days	Tue 9/3/21	Wed 10/3/21	Tue 9/3/21	Wed 10/3/21 366,367	369,371	0 days		100%	
369 CBR-5905 370 CBR-5910		Construction of precautionary measures (i.e. bund wall) 305 Removal of abandoned DN250 air pipe 209	0 days 0 days	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%	
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	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 da	1046 days	5	41% 9%	l.
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 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	75 days	Wed 30/6/21	Mon 27/9/21	Wed 30/6/21	NA 372SS+45 days	378FS-30 days	-88 days		36%	l.
378 CBR-7132 379 CBR-7140		Existing DN600 tank drain diversion 204, 353 Demolition of abandoned DN600 pipe and existing surrounded wall & 353, 336	45 days 30 days	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% 0%	
		channel of BR2													
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%	l I
381 CBR-7160		Pile load test	26 days	NA	NA	26 days	Sat 19/2/22	Mon 21/3/22	NA West 00/0/04	NA 380,386	389,388	-88 days		0%	I I
382 CBR-7200 383 CBR-7210		External works between BR2 and PST Demolition of existing DN1200. DN900 and DN500 pipe (w/ ELS works) 91	0 days 0 days	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 -38 days		19% 36%	
												-			l I
384 CBR-7220 385 CBR-7230		Diversion of existing lighting cable and Earthing ducts (w/ ELS) 264 Demolition of existing side wall 336	0 days 0 days	NA	NA	30 days 12 days	Tue 28/9/21 Thu 4/11/21	Wed 3/11/21 Wed 17/11/21	NA	NA 383 NA 384	385 386	-38 days -38 days		0%	
386 CBR-7240		Pre-bored H piles (24nrs, 2rig, 2days/drillhole/rig)_stage 2B	24 days	NA	NA	24 days	Thu 18/11/21	Wed 15/12/21	NA	NA 385	381	-38 days		0%	
387 CBR-7340 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 372 NA 381,387	388 389	1 day -88 days		0% 0%	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 135,381,388	391,390FF-3 emons,399SS+4	6 day -88 days	3	0%	
390 CBR-10900 391 CBR-11000 K	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 389FF-3 emons NA 138,186,187,190,188,389,390SS-3	391SS-3 emons emons 398,46FF,397,393FF,394SS+	168 days 25 da -88 days	5	0%	
392 K	KD1E	Process Pipe CHO chainage 65-140	0 days	NA	NA	60 days	Wed 8/2/23	Sat 22/4/23	NA	NA 391FF	46FF	-88 days		0%	l I
393 CBR-11020 K	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 K		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 I
395 CBR-14000 K 396 CBR-15000 K		Gate Valve Chamber no.1-3 Plug Valve Chamber no.1-2	180 days 180 days	2023/1/3 2023/1/3	2023/8/12 2023/8/12	60 days 60 days	Wed 7/12/22 Wed 8/2/23	Tue 21/2/23 Sat 22/4/23	NA NA	NA 394FS-13 days NA 395FS-12 days	396FS-12 days 46FF	-88 days -88 days		0% 0%	1
397 CBR-12000 K		Allow access to Contractor DE/2018/04 for E&M installation and T&C works	0 days	Sat 31/12/22	Sat 31/12/22	0 days	Sat 22/4/23	Sat 22/4/23	NA	NA 391	46FF	-88 days		0%	
398 CBR-16000 S	SW1	ABWF works + BS works	180 days	Tue 3/1/23	Sat 12/8/23	180 days	Mon 24/4/23	Mon 27/11/23	NA	NA 391,189,141	56FF	60 days		0%	
399 CBR-17000 S		Process Pipe CHQ chainage 65-170, CHP chainage 60-130, CHL chainage 0-35 & CHK chianage 0-50 and surrounding utilities	0 days	NA	NA	80 days	Tue 2/8/22	Sat 5/11/22	NA	NA 389SS+46 days	57FF,555	-88 days		0%	l I
400 CMF-0000 *	*	Membrane Facilities Building, B-5	941 days	Mon 6/1/20	Thu 9/3/23	1133 days	Mon 18/11/19	Wed 13/9/23	Mon 18/11/19	NA 2		121 days		45%	
401 402 CMF-1000		Operation of existing Final Sedimentation Tanks no.3 & 4 26	0 days	NA Mon 6/1/20	NA Tue 21/1/20	98 days	Mon 18/11/19	Tue 17/3/20 Sun 28/2/21	Mon 18/11/19 Mon 6/1/20	Tue 17/3/20 2 Sun 28/2/21 160.122.10		0 days		100%	
402 CMF-1000 403 CMF-1100		Demolition of existing final sedimentation tanks no. 3 & 4 Confirmation of Decommission Schedule 68 30	14 days 0 days	Mon 6/1/20 NA	Tue 21/1/20 NA	340 days 58 days	Mon 6/1/20 Mon 6/1/20	Sun 28/2/21 Mon 16/3/20	Mon 6/1/20 Mon 6/1/20	Sun 28/2/21 160,122,10 Mon 16/3/20	404	0 days 0 days		100% 100%	
404 CMF-1200		Provision of new submersed pump 68 26	0 days	NA	NA	27 days	Wed 4/3/20	Fri 3/4/20	Wed 4/3/20	Fri 3/4/20 403	405	0 days		100%	
405 CMF-1205 406 CMF-1300		Assistant to decommissioning of Final Sedimentation Tank No. 3 and 4 68 7 Additional dismantling works to retain specified electrical and mechanical 75 (013)	0 days 0 days	NA	NA NA	14 days 21 days	Wed 4/3/20 Tue 7/4/20	Fri 3/4/20 Wed 6/5/20	Wed 4/3/20 Tue 7/4/20	Fri 3/4/20 404 Wed 6/5/20 405	406 407	0 days 0 days		100% 100%	
		equipment	0.4	NIA	NIA	70	N/ 0/7-7-7		Mon 8/6/20		400			100%	
407 CMF-1400			0 days	NA	NA	70 days	Mon 8/6/20	Sat 29/8/20		Sat 29/8/20 406	408	0 days			
407 CMF-1400 408 CMF-1500		equipment 76, 77, 144 (015) Additional pluging works for DN 1200 Conc. S&S pipe at wash water 76, 77, 144 (015) Diversion of wash water main 76, 77 032	0 days	NA	NA	21 days	Mon 15/6/20	Fri 10/7/20	Mon 15/6/20	Fri 10/7/20 407	409	0 days		100%	<u> </u>
407 CMF-1400		equipment Additional pluging works for DN 1200 Conc. S&S pipe at wash water 76, 77, 144 (015) pumping station chamber												100% 100% 100%	=
407 CMF-1400 408 CMF-1500 409 CMF-1600		equipment 76, 77, 144 (015) pumping station chamber 76, 77, 144 (015) Diversion of wash water main 76, 77 032 Isolation wall for RAS Channel No.1 76, 77 035	0 days 0 days	NA	NA NA	21 days 40 days	Mon 15/6/20 Mon 1/6/20	Fri 10/7/20 Sat 18/7/20	Mon 15/6/20 Mon 1/6/20	Fri 10/7/20 407 Sat 18/7/20 408	409	0 days 0 days		100%	÷.
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710		equipment 76, 77, 144 (015) Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 76, 77, 144 (015) Diversion of wash water main 76, 77 032 Isolation wall for RAS Channel No. 1 76, 77 035 Removol of DN1400 Bioreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharted existing cable between FST3 and FST 77 038 4 Demolition of structure no. 3 & 4 68, 75, 76	0 days 0 days 0 days	NA NA NA	NA NA NA	21 days 40 days 8 days	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21	409	0 days 0 days 0 days		100% 100%	<u>.</u>
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710 411 CMF-1800		equipment 76, 77, 144 Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 76, 77, 144 Diversion of wash water main 76, 77 Diversion of wash water main 76, 77 Stolation wall for FAS Channel No.1 76, 77 Removed of DNI 400 Bioreactor No. 2 Elluent Pipe 043 Exposed and disconnel uncharted existing cable between FST3 and FST 77 Obmolition of structure no. 3 & 4 68, 75, 76, 77, 144	0 days 0 days 0 days 0 days 14 days	NA NA NA NA	NA NA NA NA	21 days 40 days 8 days 20 days 122 days	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20	409 413	0 days 0 days 0 days 0 days 0 days 0 days		100% 100% 100%	-
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710 411 CMF-1800 412 CMF-1110 413 CMF-1900 414 CMF-2000		equipment 76, 77, 144 015) Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 76, 77, 144 015) Diversion of wash water main 76, 77 032 Isolation wall for RAS Channel No. 1 76, 77 035 Removal of DNI 400 Boreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharted existing cable between FST3 and FST 77 038 4 Demolition of structure no. 3 & 4 88, 75, 76, 77, 144 77, 144 Permoval of Existing DN150 SAS Rising Main at RAS Channel No. 1 212 060 Predrilling (83nrs, 4rigs, 2.5daysidrillholeirig) 144, 212 120	0 days 0 days 0 days 0 days 14 days 0 days 42 days	NA NA NA NA Mon 6/1/20 NA Sat 6/6/20	NA NA NA NA Tue 21/1/20 NA Mon 27/7/20	21 days 40 days 8 days 20 days 122 days 23 days 31 days	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 10/8/20	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127,412	409 413 414 414 415 415	0 days 0 days 0 days 0 days		100% 100% 100% 100% 100%	<u>.</u>
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710 411 CMF-1800 412 CMF-1110 413 CMF-1900		equipment 76, 77, 144 (015) Additional buging works for DN 1200 Conc. S&S pipe at wash water 76, 77, 144 (015) Diversion of wash water main 76, 77 032 Isolation walt for RAS Channel No. 1 76, 77 035 Removal of DN1400 Bioreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharted existing cable between FST3 and FST 77 038 Demolition of structure no. 3 & 4 68, 75, 76, 77, 144 68, 75, 76, 77, 144 Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 212 060 <td>0 days 0 days 0 days 0 days 0 days 14 days 0 days</td> <td>NA NA NA NA Mon 6/1/20 NA</td> <td>NA NA NA NA Tue 21/1/20 NA</td> <td>21 days 40 days 8 days 20 days 122 days 23 days</td> <td>Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20</td> <td>Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20</td> <td>Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20</td> <td>Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409</td> <td>409 413 414 415</td> <td>0 days 0 days 0 days 0 days 0 days 0 days 0 days</td> <td>1</td> <td>100% 100% 100% 100%</td> <td>-</td>	0 days 0 days 0 days 0 days 0 days 14 days 0 days	NA NA NA NA Mon 6/1/20 NA	NA NA NA NA Tue 21/1/20 NA	21 days 40 days 8 days 20 days 122 days 23 days	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409	409 413 414 415	0 days 0 days 0 days 0 days 0 days 0 days 0 days	1	100% 100% 100% 100%	-
407 CMF-1500 408 CMF-1500 409 CMF-1600 410 CMF-1701 411 CMF-1800 412 CMF-1101 413 CMF-1900 414 CMF-2000 415 CMF-3000 416 CMF-3100		equipment 76, 77, 144 (015) Additional buging works for DN 1200 Conc. S&S pipe at wash water 76, 77, 144 (015) Diversion of wash water main 76, 77 032 Isolation wall for RAS Channel No. 1 76, 77 035 Removal of DN1400 Bioreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharted existing cable between FST3 and FST 77 038 Demolition of structure no. 3 & 4 67, 7144 76 Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 212 060 Pre-bordel hige (171nos, 57gs. 1.5days/cirlibering) [Extended working hours 121, 208, 120 120	0 days 0 days 0 days 0 days 14 days 14 days 42 days 140 days 0 days	NA NA NA NA Mon 6/1/20 NA Sat 6/6/20 Tue 28/7/20 NA	NA NA NA Tue 21/1/20 NA Mon 27/7/20 Wed 13/1/21 NA	21 days 40 days 8 days 20 days 122 days 23 days 31 days 96 days 17 days	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20	Fri 10/7/20 Sat 18/7/20 Sur 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20 Sat 23/1/21 Sat 21/11/20	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127,412 Sat 23/1/21 414,132,413 Sat 21/11/20 415	409 413 414 415 415 415 415 416,417	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	1 5 5	100% 100% 100% 100% 100% 100%	<u> </u>
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710 411 CMF-1900 412 CMF-1900 413 CMF-1900 414 CMF-3000 415 CMF-3000 416 CMF-3100 417 CMF-3000		equipment 76, 77, 144 (015) Additional pluging works for DN 1200 Conc. S&S pipe at wash water 76, 77, 144 (015) Diversion of wash water main 76, 77 032 Isolation wall for RAS Channel No. 1 76, 77 035 Removal of DN1400 Bioreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharded existing cable between FST3 and FST 77 038 Demolition of structure no. 3 & 4 67, 7144 76 Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 212 060 Predoritiling (B3rrs, 4rigs, 1.5days/cliftlinolering) 144, 212 120 Ord-1900 & shortern pile lergth) [Extended working hours] 309 Change of Layout of Basement of MFB no. 2 (102) (102)	0 days 0 days 0 days 0 days 0 days 14 days 0 days 140 days 140 days 0 days 25 days	NA NA NA NA NA Mon 6/1/20 NA Sat 6/6/20 Tue 28/7/20 NA Tuu 14/1/21	NA NA NA Tue 21/1/20 NA Mon 27/7/20 Wed 13/1/21 NA Tue 16/2/21	21 days 40 days 8 days 20 days 122 days 23 days 31 days 96 days 17 days 19 days	Mon 15/6/20 Mon 16/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 10/8/20 Mon 28/9/20 Tue 3/11/20 Mon 4/1/21	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20 Sat 23/1/21 Sat 21/11/20 Mon 25/1/21	Mon 15/6/20 Mon 16/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 10/8/20 Mon 28/9/20 Tue 3/11/20 Mon 4/1/21	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127,412 Sat 23/1/21 414,132,413 Sat 23/1/21 414,132,413 Sat 21/1/1 /20 415 Mon 25/1/21 415	409 413 414 415 415 415 415 416,417 421,418	0 days 0 days	1 5 5	100% 100% 100% 100% 100% 100% 100% 100%	
407 CMF-1400 408 CMF-1500 409 CMF-1600 400 CMF-1700 411 CMF-1710 412 CMF-1110 413 CMF-1900 414 CMF-3000 415 CMF-3000 416 CMF-3000 417 CMF-4000 418 CMF-3000		equipment 76, 77, 144 (015) Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 76, 77, 144 (015) Diversion of wash water main 76, 77 032 Isolation wall for RAS Channel No. 1 76, 77 035 Removal of DN1400 Bioreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharted existing cable between FST3 and FST 77 038 4 05 88, 75, 76, 77, 144 77, 144 Demolition of structure no. 3 & 4 88, 75, 77, 144 120 Pre-bored H piles (171nos, 2rigs, 1.5days/pilerig) [Extended working hours 212, 308, 120 120 Pre-bored H piles (171nos, 2rigs, 1.5days/pilerig) [Extended working hours 212, 308, 120 120 Change of Layout of Basement of MFB no. 2 (102)	0 days 0 days 0 days 0 days 14 days 14 days 42 days 140 days 0 days	NA NA NA NA Mon 6/1/20 NA Sat 6/6/20 Tue 28/7/20 NA	NA NA NA Tue 21/1/20 NA Mon 27/7/20 Wed 13/1/21 NA	21 days 40 days 8 days 20 days 122 days 23 days 31 days 96 days 17 days	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20	Fri 10/7/20 Sat 18/7/20 Sur 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20 Sat 23/1/21 Sat 21/11/20	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127,412 Sat 23/1/21 414,132,413 Sat 21/11/20 415	409 413 414 415 415 415 415 416,417	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days	1 5 5	100% 100% 100% 100% 100% 100%	
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710 411 CMF-1710 412 CMF-1900 413 CMF-1900 414 CMF-3000 415 CMF-3000 416 CMF-3000 417 CMF-6000 418 CMF-6000 419 CMF-6000 419 CMF-6000		equipment 76, 77, 144 Additional pluging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 76, 77, 144 Diversion of wash water main 76, 77 Other State Constraints 76, 77 Isolation waitor RAS Channel No. 1 76, 77 Other State Constraints 76, 77 Removal of DN1400 Bioreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharded existing cable between FST3 and FST 77 Obmolition of structure no. 3 & 4 67, 76, 74 Demolition of structure no. 3 & 4 67, 76, 74 Peredoriting (B3rrs, 4rigs, 2.5daysidrilholering) 144, 212 Probord Pipe (S171no, Sigs, 1.5daysicpile/rig) [Extended working hours 309 309 Change of Layout of Basement of MFB no. 2 (102) Pile Load Test 120 Installation of sheetpile [with pre-boring] 120 ELS works 74 75	0 days 0 days 0 days 0 days 14 days 0 days 14 days 14 days 0 days 42 days 140 days 140 days 169 days 169 days	NA NA NA NA Mon 6/1/20 NA Sat 6/6/20 Tue 28/7/20 NA Tnu 14/1/21 Wed 22/1/20 Wed 17/2/21	NA NA NA NA Tue 21/1/20 NA Mon 27/7/20 Wed 13/1/21 NA Tue 16/2/21 Wed 11/3/20 Tue 9/9/21 Thu 9/9/21	21 days 40 days 8 days 20 days 122 days 23 days 31 days 96 days 17 days 19 days 19 days 120 days 188 days	Mon 15/6/20 Mon 16/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 31/8/20 Mon 28/9/20 Tue 31/1/20 Mon 4/1/21 Mon 4/1/21 Mon 4/1/21 Fri 25/6/21	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20 Sat 23/1/21 Sat 21/1/20 Mon 25/1/21 Thu 24/6/21 Thu 10/2/22 Thu 10/2/22	Mon 15/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 28/9/20 Mon 28/9/20 Tue 3/11/20 Mon 4/1/21 Mon 28/12/20 Fri 25/6/21 Fri 25/6/21	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127,412 Sat 21/1/21 414,132,413 Sat 21/1/21 414,132,413 Sat 21/1/21 415 Mon 25/1/21 415 Thu 24/6/21 417 NA	409 413 414 414 415 415 415 415 415 415 416 417 421,418 421 421 421 421 425 5	0 days 0 days 1 days 1 days 1 days	1 5 5 5	100% 100% 100% 100% 100% 100% 100% 100%	
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710 411 CMF-1710 412 CMF-1900 413 CMF-1900 414 CMF-3000 415 CMF-3000 416 CMF-3000 417 CMF-6000 418 CMF-5000 419 CMF-6000 419 CMF-6000		equipment 76, 77, 144 Additional pluging works for DN 1200 Conc. S&S pipe at wash water 76, 77, 144 Diversion of wash water main 76, 77 Diversion of wash water main 76, 77 Isolation wall for RAS Channel No. 1 76, 77 Bernoval of DN1400 Bioreactor No. 2 Effluent Pipe 943 Exposed and disconnet uncharted existing cable between FST3 and FST 77 Demolition of structure no. 3 & 4 77, 144 Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 212 Preduiling (83ms, 4rigs, 2.5daysicitiinbeiring) 144, 212 Produiling (83ms, 4rigs, 2.5daysicitiinbeiring) 209 Probunct of Layout of Basement of MFB no. 2 (102) Pie Load Test (102) Load Test 120 ELS works 120	0 days 0 days 0 days 0 days 14 days 14 days 0 days 140 days 0 days 25 days 40 days 169 days	NA NA NA Mon 6/1/20 NA Sat 6//20 Tue 28/7/20 NA Thu 14/1/21 Wed 27//20 Wed 17/2/21	NA NA NA NA Ma Ma Ma NA Mail Strategy Wed 13/1/21 NA Tue 16/2/21 Wed 11/3/20 Thu 19/2/1	21 days 40 days 8 days 20 days 122 days 31 days 96 days 17 days 19 days 120 days 120 days	Mon 15/6/20 Mon 16/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20 Mon 4/1/21 Mon 28/1/20 Fri 25/6/21	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20 Sat 23/1/21 Sat 21/11/20 Mon 25/1/21 Thu 24/6/21 Thu 10/2/22	Mon 15/6/20 Mon 1/6/20 Fri 19/2/21 Thu 27/20 Wed 1/4/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20 Mon 4/1/21 Mon 28/1/21 Mon 28/1/21 Mon 26/1/21	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127/412 Sat 23/1/21 414,132,413 Sat 21/11/20 415 Mon 25/1/21 415 Thu 24/6/21 417 NA 10	409 413 414 414 415 415 415 415 416,417 421,418 421 424FF-3 emons	0 days 0 days -87 days	1 5 5 5 5	100% 100% 100% 100% 100% 100% 100% 100%	
407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1710 411 CMF-1710 412 CMF-1900 413 CMF-1900 414 CMF-1900 415 CMF-3000 416 CMF-3000 417 CMF-6000 418 CMF-5000 419 CMF-6100 420 CMF-6100 421 CMF-610		equipment 76, 77, 144 Additional buging works for DN 1200 Conc. S&S pipe at wash water pumping station chamber 76, 77, 144 (015) Diversion of wash water main 76, 77 032 Isolation wall for RAS Channel No. 1 76, 77 033 Removal of DN1400 Bioreactor No. 2 Effluent Pipe 043 Exposed and disconnet uncharted existing cable between FST3 and FST 77 038 Demolition of structure no. 3 & 4 67, 71, 144 74 Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 212 060 Predoritling (B3ms, 4rigs, 2.5daysidifilholering) 144, 212 120 Or00-1900 & shortern pile length] 121, 200, 309 309 Orhange of Layout of Basement of MFB no. 2 (102) 120 Els works F 120 20 Els works F 120 20 Sol Excavation (Extended working hours 0700-1900 & reduction of excavation returnel of which go users 0700-1900 & reduction of excavation returnel of shorter pile length] 45	0 days 0 days 0 days 0 days 0 days 14 days 0 days 42 days 140 days 140 days 0 days 25 days 169 days 169 days 0 days	NA NA NA NA NA Mon 6/1/20 NA Sat 6/6/20 Tue 28/7/20 NA Thu 14/1/21 Wed 22/1/20 Wed 17/2/21 Wed 17/2/21 NA	NA NA NA NA Main Tue 21/1/20 NA Mon 27/7/20 Wed 13/1/21 NA Tue 16/2/21 Wed 11/3/20 Thu 9/9/21 Thu 9/9/21 NA	21 days 40 days 8 days 20 days 122 days 23 days 31 days 96 days 19 days 19 days 19 days 188 days 88 days 80 days	Mon 15/6/20 Mon 15/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 31/8/20 Mon 28/9/20 Mon 4/1/21 Mon 28/12/20 Fri 25/6/21 Fri 25/6/21 Sat 9/10/21	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20 Sat 23/1/21 Sat 23/1/21 Thu 24/6/21 Thu 10/2/22 Fri 8/10/21 Thu 10/2/22	Mon 15/6/20 Mon 16/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20 Mon 28/12/20 Fri 25/6/21 Fri 25/6/21 Fri 25/6/21 NA	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127,412 Sat 23/1/21 414,132,413 Sat 23/1/21 415 Mon 25/1/21 415 Thu 24/6/21 417 NA NA NA 418,135,417 NA 421	409 413 413 414 414 415 415 415 415 415 415 415 415	0 days 0 days 10 days 117 days -117 days	1 5 5 5	100% 100% 100% 100% 100% 100% 100% 100%	
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407 CMF-1400 408 CMF-1500 409 CMF-1600 410 CMF-1701 411 CMF-1900 412 CMF-1900 413 CMF-1900 414 CMF-3000 415 CMF-3000 416 CMF-3100 417 CMF-6000 418 CMF-6000 420 CMF-6100 421 CMF-6100 422 CMF-7100 423 CMF-7100 424 CMF-7100 425 CMF-7100 426 CMF-7100 427 CMF-7100 428 CMF-7100 429 CMF-7100 430 CMF-8000 431 CMF-9000	KD1F KD1G KD1G KD1F KD1G SW1	equipment 76, 77, 144 Additional pluging works for DN 1200 Conc. S&S pipe at wash water 76, 77, 144 Diversion of wash water main 76, 77 Othersion of wash water main 76, 77 Stoalian wall for RAS Channel No. 1 76, 77 Bemoval of DN1400 Bioreactor No. 2 Effluent Ppe 94 Exposed and disconnet uncharted existing cable between FST3 and FST 77 QB 68, 75, 76, 77 Q 94 Demolition of structure no. 3 & 4 71, 144 Removal of Existing DN150 SAS Rising Main at RAS Channel No. 1 212 Pre-bored H piles (71 nos, 25, 1.5days/pile/rig) [Extended working hours 212, 308, 120 120 Problemed H piles (71 nos, 25, 1.5days/pile/rig) [Extended working hours 212, 308, 120 120 Change of Layout of Basement of MFB no. 2 (102) Pile Load Test 120 ELS works 120 Pharse A (A1 to N6) - Excavation to -9mPD and blinding 45 Soil Excavation [Extended working hours 0700-1900 & reduction of excavation rolume] 120, 207 Additional Rock Excavation 1200 cum, 7.5cum/group x 2] 120, 207 Additional Rock Excavation 1200 cum, 7.5cum/group x 2] 120, 207 Pharse A (A1 to N6) - Excavation 1-9mPD and blinding 120, 207 Roceiving of Civil Requirements from PM 120, 207 Phase	0 days 0 days 0 days 0 days 0 days 14 days 14 days 14 days 0 days 140 days 140 days 140 days 140 days 140 days 140 days 169 days 169 days 169 days 0 days 169 days 0 days 169 days 0 days 120 day	NA NA NA NA Mon 6/1/20 NA Sat 6/20 Tue 28/7/20 NA Thu 14/1/21 Wed 22/1/20 Wed 17/2/21 Wed 17/2/21 Wed 17/2/21 Wed 17/2/21 NA Fri 10/9/21 Fri 10/9/21 Fri 10/9/21 Fri 10/9/21 Wed 26/1/22 Tue 25/1/22 Sat 25/6/22 Mon 27/6/22	NA NA NA NA NA Tue 21/1/20 NA Mon 27/7/20 Wed 131/21 NA Tue 16/2/21 Wed 11/3/20 Thu 9/9/21 Thu 9/9/21 NA Sat 25/6/22 Tue 25/1/22 Tue 25/1/22 Sat 25/6/22 Tue 25/1/22 Tue 25/1/22 Sat 25/6/22 Tue 25/1/22 Tue 25/1/22	21 days 40 days 8 days 20 days 122 days 31 days 96 days 17 days 19 days 120 days 188 days 188 days 88 days 100 days 100 days 112 days 112 days 112 days 112 days 112 days 112 days 112 days 120 days 0 days 262 days 120 days	Mon 15/6/20 Mon 15/6/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 28/9/20 Tue 3/11/20 Mon 28/9/20 Tue 3/11/20 Mon 4/1/21 Mon 28/12/20 Fri 25/6/21 Fri 25/6/21 Fri 25/6/21 Fri 25/6/21 Fri 12/11/21 Fri 12/11/21 Fri 12/12/21 Fri 13/22 Thu 3/6/22 Thu 4/8/22 Wed 28/12/22	Fri 10/7/20 Sat 18/7/20 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 Mon 14/9/20 Sat 23/1/21 Sat 21/11/20 Mon 25/1/21 Thu 10/2/22 Fri 8/10/21 Thu 10/2/22 Fri 8/10/21 Thu 10/2/22 Fri 8/10/21 Fri 12/11/21 Wed 29/12/22 Thu 4/8/22 Thu 4/8/22 Thu 4/8/22 Thu 4/8/22 Thu 4/8/22	Mon 15/6/20 Mon 16/20 Fri 19/2/21 Thu 2/7/20 Wed 1/4/20 Mon 31/8/20 Mon 31/8/20 Mon 4/1/21 Mon 4/1/21 Mon 4/1/21 Fri 25/6/21 Fri 25/6/21 Fri 25/6/21 NA Fri 25/6/21 NA NA NA NA NA NA	Fri 10/7/20 407 Sat 18/7/20 408 Sun 28/2/21 Fri 24/7/20 Sat 29/8/20 Fri 25/9/20 409 Mon 14/9/20 127/412 Sat 23/1/21 414,132,413 Sat 23/1/21 414,132,413 Sat 23/1/21 415 Thu 24/6/21 415 NA 10 NA NA 418,135,417 NA 421 NA 421 NA 420SS NA 10,424SS-3 emons NA 103,186,187,190,188,422 NA 4265-423 NA 426 NA 426 NA 426 NA 426,427 NA 428,429 NA 189,428,429	409 409 413 414 414 415 415 415 415 415 415	0 days 0 days 10 days 117 days		100% 100% 100% 100% 100% 100% 100% 100%	



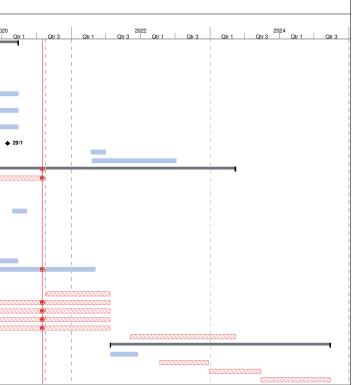
Data Date: 31/07/2021

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1	D Ke		nt - Main Works Stage 1 : Name	Inclement PMI	& CE no. Baseline D	uration Baseline Star	Baseline Finish	Duration	Start	Finish A	ctual Start	Actual Finish Predecessors	Successors	Total Slack	Risk % Complete
	Da	ite dask		Weather (NCI CE no.		baseline star		Duration	Start	A				Old Old Ch	Allowance
CSA-100	20		Additional Preliminary Works	(NCE no.)	0 doug	NA	NA	220 down	Tue 9/6/20	Mon 19/7/21	Tue 9/6/20	NA		1247 daya	98
CSA-100 CSA-102			Expose and abandon existing electric cable & trial pits	78	0 days 0 days	NA	NA	330 days 39 days	Mon 17/8/20	Wed 30/9/20	Mon 17/8/20			1247 days 0 days	100
CSA-102			Installation of standpipes	70	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
CSA-110			Diversion of Existing SAS Rising Main near SAS Pumping Station	68, 75, 76 69	0 days	NA	NA	170 days	Tue 9/6/20	Thu 31/12/20	Tue 9/6/20	Thu 31/12/20		0 days	100
CSA-120	00		Decommission of exisiting power and signal systems in leachate Pump	312, 309, 74	0 days	NA	NA	58 days	Mon 21/9/20	Mon 30/11/20	Mon 21/9/20	Mon 30/11/20 146	453	0 days	100
			station switch room	310											
CSA-130			Construction of Cable trough for CLP 11kv Cable Diversion	75, 76, 77, 161	0 days	NA	NA	54 days	Mon 19/10/20	Mon 21/12/20	Mon 19/10/20			0 days	100
CSA-140 CSA-150			Demolition of Existing Pillar box and its concrete plinth Excavation to locate existing underground cble near SAS Pump Station	144, 212, 3(30	0 days 0 days	NA	NA	53 days 59 days	Wed 12/8/20 Wed 17/6/20	Sat 14/11/20 Sat 21/11/20	Wed 12/8/20 Wed 17/6/20	Sat 14/11/20 149 Sat 21/11/20		0 days 0 days	100
C3A-150	0		Excavation to locate existing underground cole near SAS Pump Station	10	0 days	INA	IN/A	59 days	Web 17/6/20	3dl 21/11/20	Weu 17/0/20	Sat 21/11/20	400	0 uays	100
CSA-160	00		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
			station												
CSA-180	00		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
CSA-170			Relocation of Oil Interceptor Near Existing Compressor House	144, 212, 3070	0 days	NA	NA	50 days	Mon 9/11/20	Fri 8/1/21	Mon 9/11/20	Fri 8/1/21		0 days	100
CSA-190			Diversion of pumping system sewerage	212, 309, 3183	0 days	NA	NA	36 days	Wed 13/1/21	Fri 26/2/21	Wed 13/1/21	Fri 26/2/21 151		0 days	100
CSA-191				309, 310 225	0 days	NA	NA	61 days	Mon 19/10/20	Thu 31/12/20	Mon 19/10/20	Thu 31/12/20 446		0 days	100
CSA-192 CSA-193			Pipework of proposed SAS Pumping Station - 13 nos. of puddles Additional DN150 Rising main for SAS	221	0 days 69 0 days	NA	NA	180 days 15 days	Mon 7/12/20 Wed 2/12/20	Mon 19/7/21 Fri 18/12/20	Mon 7/12/20 Wed 2/12/20	NA Fri 18/12/20		1247 days 0 days	92
CSA-194			Additional DN90 PE pipe diversion	89	0 days	NA	NA	7 days	Fri 11/12/20	Fri 18/12/20	Fri 11/12/20			0 days	100
CSA-197			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
CSA-200			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		0 days	100
CSA-300			Pre-bored H piles (12nos, 1rigs, 4days/pile/rig)		60 days	Mon 8/6/20	Tue 18/8/20	19 days	Mon 4/1/21	Mon 25/1/21	Mon 4/1/21	Mon 25/1/21 132,452,148,438,439,441,442,443,445,4		0 days	2 100
CSA-400			Pile Load Test		21 days	Wed 19/8/20	Thu 17/9/20	22 days	Tue 23/2/21	Fri 19/3/21	Tue 23/2/21	Fri 19/3/21 453		0 days	100
CSA-500			Sheetpile Installation (FSP-II, 690sq.m, 40sqm/day)		28 days	Wed 19/8/20	Sat 19/9/20	28 days	Tue 30/3/21	Wed 5/5/21	Tue 30/3/21	Wed 5/5/21 133,454,446		0 days	2 96
CSA-600 CSA-690			ELS works (1300cu.m soil with 2 layers wailing / strutting) Beceiving of Civil Becuirements from PM		75 days	Mon 21/9/20	Wed 19/2/20	75 days	Thu 6/5/21 Thu 6/5/21	Wed 4/8/21 Thu 6/5/21	Thu 6/5/21 Thu 6/5/21	NA 455,135,454 Thu 6/5/21 456FF-3 emons	458,457FF-3 emons 458SS-3 emons	-121 days	2 96
CSA-690 CSA-700		01H	Receiving of Civil Requirements from PM R.C. Structure works (including ELS demolition works)		0 days 186 days	Mon 21/12/20	Mon 9/8/21	1 day 186 days	Thu 5/5/21 Thu 5/8/21	Sat 19/3/22	1nu 6/5/21 NA	NA 456,457SS-3 emons		0 days -121 days	5 0
CSA-800			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 Sat 19/3/22	NA	NA 458		-121 days	0
CSA-900			ABWF works + BS works		90 days	Tue 10/8/21	Thu 25/11/21	90 days	Tue 14/6/22	Wed 28/9/22	NA			405 days	04
CAS-000			ncillary Structures, B-7		503 days	Mon 7/9/20	Sat 21/5/22	420 days	Mon 3/5/21	Wed 28/9/22	Mon 3/5/21	NA 12		891 days	7'
CAS-100			Demolition of Existing Faciliates and Structures (leachate pump pit &		120 days	Mon 7/9/20	Sat 30/1/21	120 days	Mon 3/5/21	Thu 23/9/21	Mon 3/5/21	NA 122,160,162	497	48 days	419
L			pumping station)												
CFS-100	* 00		Fire Services Sprinkler Pumping Room & Emergency Generator House (9)+(10)**	301	220 days	Sat 10/4/21	Sun 3/1/21	419 days	Tue 4/5/21	Wed 28/9/22	Tue 4/5/21	NA		405 days	14
050	20				a :				-			Mag 47/7/04	405	0.44	
CFS-100 CFS-115			Water Sampling and Testing for existing effluent pump pit	384	0 days	NA	NA	12 days	Tue 4/5/21	Mon 17/5/21 Eri 18/6/21	Tue 4/5/21	Mon 17/5/21		0 days	100
CFS-115 CFS-110			Identification, decommission and demolition of the existing kiosk Provision of Flowmeter chamber, gate valve chamber and associated	86	0 days 0 days	NA	NA	26 days 90 days	Tue 18/5/21 Sat 19/6/21	Fri 18/6/21 Tue 5/10/21	Tue 18/5/21 Sat 19/6/21	Fri 18/6/21 464 NA 465	466,479 467,469FF	0 days -101 days	100
	~		seweage	00	o udys			JUUAYS	Jat 13/0/21	. 36 Sr 10/21	Jat 13/0/21	101100		uays	40
CFS-120	00		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	04
			sewerage manholes and pipes												
CFS-125			Diversion of Leachate Rising Main near SSSH	241	0 days	NA	NA	18 days	Wed 28/7/21	Wed 18/8/21	NA	NA 469SF		18 days	04
CFS-130	00		E&M provision of flowmeter chamber and associated sewerage for effluent and sewage from SSSH	256	0 days	NA	NA	40 days	Wed 18/8/21	Tue 5/10/21	NA	NA 466FF	470,468SF	-61 days	01
CFS-200	10				er	NA	NA		Tuo 09/11/01	Sat 15/1/22	NA	NA 469.467	471	-101 dour	
CFS-200 CFS-280			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		471 472	-101 days -101 days	0'
FS-280 FS-290			Soil Replacement (14 layers SRT)		0 days	NA	NA	42 edays	Mon 24/1/22	Mon 7/3/22	NA		472	-101 days -124.42 edays	04
CFS-300			Plate load test at bottom level of base slab (3no.)		28 days	Fri 4/6/21	Mon 21/6/21	7 days	Tue 8/3/22	Tue 15/3/22	NA		474FF-3 mons,475	-101 days	0
FS-390			Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Tue 23/11/21	Tue 23/11/21	NA	NA 473FF-3 mons	475SS-3 emons	59 days	0
	00 KD	D1J	R.C. structure works		120 days	NA	NA	70 days	Wed 16/3/22	Mon 13/6/22	NA	NA 473,474SS-3 emons		-101 days	2 04
FS-500	00 KD	D1J	Allow access to Contractor DE/2018/04 for E&M installation and T&C		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
			works												
CFS-600		V1	ABWF works + BS works		90 days	Tue 14/9/21	Mon 3/1/22	90 days	Tue 14/6/22	Wed 28/9/22	NA	NA 475		405 days	04
CS-100			Chemical System No.1 (8)*		168 days	Mon 1/2/21	Thu 26/8/21	386 days	Sat 12/6/21	Wed 28/9/22	Sat 12/6/21	NA		891 days	4
CS-131			Demolition of SSSH Pump Pit and Associated Sewerage System	086	0 days	NA	NA	26 days	Sat 19/6/21	Tue 20/7/21	Sat 19/6/21	NA 465		54 days	38
CS-111 CS-110			Removal of existing Leachate Rising Main near SSSH	241	0 days	NA	NA Thu 11/2/21	12 days	Wed 18/8/21	Tue 31/8/21	NA	NA 468		18 days	0
CS-110 CS-108			Excavation for Raft Footing (20cu.m) Plate load test at bottom level of compacted generall fill(2ng.)		10 days 9 days	Mon 1/2/21	Thu 11/2/21	10 days 9 days	Wed 1/9/21 Mon 13/9/21	Sat 11/9/21 Thu 23/9/21	NA	NA 480,479 NA 481		18 days 18 days	0
CS-108 CS-109			Plate load test at bottom level of compacted generall fill(2no.) Soil Replacement (10 layers SRT)		9 days 0 days	NA	NA	9 days 30 edays	Mon 13/9/21 Thu 23/9/21	Sat 23/10/21	NA	NA 481 NA 482		18 days 23.58 edays	0.
CS-120			Plate load test at bottom level of base slab (1no.)		5 days	Tue 16/2/21	Wed 3/3/21	5 days	Mon 25/10/21	Fri 29/10/21	NA	NA 462 NA 483		19 days	0
CCS-119			Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Sat 12/6/21	Sat 12/6/21	Sat 12/6/21	Sat 12/6/21 481FF-3 emons		0 days	100
CCS-130			R.C. structure works		45 days	Mon 15/3/21	Mon 10/5/21	60 days	Sat 30/10/21	Tue 11/1/22	NA	NA 481,485SS-3 emons,484		20 days	2 04
JS-140	00 KE	01J	Allow access to Contractor DE/2018/04 for E&M installation and T&C		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	04
0.1-	-		Works		0.5				T	141. 1 00		NA 100 111 100 5000-	5055	405.1	
CS-150 DS-000	00 SV	V1	ABWF works + BS works Decodorization System No 34 (7)*		90 days 149 days	Tue 11/5/21 Tue 16/11/21	Thu 26/8/21 Sat 21/5/22	90 days	Tue 14/6/22 Thu 5/8/21	Wed 28/9/22 Wed 8/12/21	NA NA	NA 189,141,486,522SS		405 days	0*
DS-000 DS-200			Deodorization System No.3A (7)* Excavation for Raft Footing (400cu.m)		20 days	Tue 16/11/21 Tue 16/11/21	Sat 21/5/22 Wed 8/12/21	20 days	Thu 5/8/21 Sat 14/8/21	Tue 7/9/21	NA	NA 491SF		90 days 1205 days	0
CDS-200 CDS-200			Plate load test at bottom level of compacted generall fill(2no.)		20 days 10 days	Tue 16/11/21 NA	NA	20 days 10 days	Sat 14/8/21 Tue 7/9/21	Sat 18/9/21	NA			1205 days 1195 days	0.
CDS-200			Soil Replacement (14 layers SRT)		0 days	NA	NA	42 edays	Sat 18/9/21	Sat 30/10/21	NA			1425.42 edays	
CDS-300			Plate load test at bottom level of base slab (1no.)		4 days	Thu 9/12/21	Fri 24/12/21	4 days	Sat 30/10/21	Wed 3/11/21	NA		494FF-3 emons,495,492SF,500FS		0
CDS-390	00		Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Thu 5/8/21	Thu 5/8/21	NA	NA 493FF-3 emons		150 days	01
CDS-400			Footing works		20 days	Tue 4/1/22	Wed 26/1/22	30 days	Thu 4/11/21	Wed 8/12/21	NA	NA 493,494SS-3 emons		46 days	04
CDS-500	00 KE	01J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Wed 26/1/22	Wed 26/1/22	0 days	Wed 8/12/21	Wed 8/12/21	NA	NA 495	51FF	46 days	0.
CCS-200	* 00		Chemical System No.2 (11)		189 days	Thu 4/3/21	Thu 21/10/21	300 days	Fri 24/9/21	Wed 28/9/22	NA	NA 462		48 days	0
CCS-200			Excavation for Raft Footing (100cu.m)		15 days	Thu 4/3/21 Thu 4/3/21	Sat 20/3/21	14 days	Fri 24/9/21	Mon 11/10/21	NA	NA 402 NA 499SF		46 days	0.
CCS-211		_	Soil Replacement (8 layers SRT)		0 days	NA	NA	24 edays	Wed 6/10/21	Sat 30/10/21	NA			1425.42 edays	
CCS-220			Plate load test (2no.)		14 days	Mon 22/3/21	Fri 9/4/21	15 days	Sat 30/10/21	Tue 16/11/21	NA		501FF-3 emons,502,499SF,510FS		04
CCS-229	90		Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Fri 24/9/21	Fri 24/9/21	NA	NA 500FF-3 emons	502SS-3 emons	108 days	04
	00 KE		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			20 days	2 04
CCS-240	00 KE	01J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Mon 5/7/21	Mon 5/7/21	0 days	Tue 11/1/22	Tue 11/1/22	NA	NA 502	51FF	20 days	01
		V1			00	Tue 6/7/21	Thu 01/10/01	00	Tuo 14/0/00	Wed 2010/00	NA	NA 189,141,502,522SS	56FF	405 dava	
CCS-250 CCS-260			ABWF works + BS works Demolition of existing chemical room		90 days 60 days	Tue 6/7/21 Tue 6/7/21	Thu 21/10/21 Mon 13/9/21	90 days 60 days	Tue 14/6/22 Wed 12/1/22	Wed 28/9/22 Fri 25/3/22	NA			405 days 556 days	04
CTC-000			Temporary Chemical Dosing System (5)		191 days	Tue 22/6/21	Thu 10/2/22	330 days	Thu 19/8/21	Wed 28/9/22	NA			89 days	0
TC-200			Excavation for Raft Footing (300cu.m)		30 days	Tue 22/6/21	Tue 27/7/21	30 days	Thu 26/8/21	Sat 2/10/21	NA	NA 508SF		1185 days	04
CTC-208			Plate load test at bottom level of compacted generall fill(2no.)		9 days	NA	NA	9 days	Sat 2/10/21	Wed 13/10/21	NA			1176 days	04
CTC-210	00		Soil Replacement (10 layers SRT)		0 days	NA	NA	30 edays	Wed 13/10/21	Fri 12/11/21	NA	NA 510SF	508SF	1412.42 edays	0
CTC-100			Plate load test at bottom level of base slab (1no.)		5 days	Wed 28/7/21	Thu 12/8/21	5 days	Fri 12/11/21	Wed 17/11/21	NA	NA 500FS-4 days		19 days	0.
TC-290			Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Thu 19/8/21	Thu 19/8/21	NA	NA 510FF-3 emons		138 days	04
	00 KE		R.C. structure works		30 days	Tue 14/9/21	Thu 21/10/21	45 days	Thu 18/11/21	Wed 12/1/22	NA			19 days	1 04
IC-400	00 KE	01J	Allow access to Contractor DE/2018/04 for E&M installation and T&C works		0 days	Thu 21/10/21	Thu 21/10/21	0 days	Wed 12/1/22	Wed 12/1/22	NA	NA 512	51FF	19 days	01
0.500	0 0.	V1	ABWE worke + BS worke		00	Evi 00/40/01	Thu 10/0/00	00	Tuo 14/0/00	Wed 2010/00		NA 180 141 510 50000	56EE	405 dava	
-500	00 SV	v I	ABWF works + BS works Fire Hydrant and Booster Pump Room (13)*		90 days 177 days	Fri 22/10/21 Fri 13/8/21	Thu 10/2/22 Thu 17/3/22	90 days 193 days	Tue 14/6/22 Sat 5/2/22	Wed 28/9/22 Wed 28/9/22	NA NA			405 days	0
-000 -100			Fire Hydrant and Booster Pump Room (13)* Excavation for Raft Footing (200cu.m)		30 days	Fri 13/8/21 Fri 13/8/21	Thu 17/3/22 Thu 16/9/21	193 days 30 days	Sat 5/2/22 Wed 23/2/22	Wed 28/9/22 Wed 30/3/22	NA	NA NA 517SF		-28 days 1039 days	0
			Soil Replacement (7 layers SRT)		0 days	Fri 13/8/21	NA	21 edays	Wed 23/2/22 Wed 30/3/22	Wed 30/3/22 Wed 20/4/22	NA	NA 517SF NA 518SF		1039 days 1253.42 edays	04
B-110 B-200			Plate load test (3no.)		14 days	Fri 17/9/21	Tue 5/10/21	14 days	Wed 20/4/22	Sat 7/5/22	NA			1011 days	0
B-200			Receiving of Civil Requirements from PM		0 days	NA	NA	1 day	Sat 5/2/22	Sun 6/2/22	NA			1083 days	0
CFB-300		01J	R.C. structure works		30 days	Fri 22/10/21	Thu 25/11/21	30 days	Sat 7/5/22	Mon 13/6/22	NA		521,522,51FF,518SF	-101 days	1 0
CFB-400			Allow access to Contractor DE/2018/04 for E&M installation and T&C		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	04
			works												
CFB-500		V1	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		04
			Deodorization System No.1 (6)*		64 days	NA	NA	105 days	Tue 10/5/22	Tue 13/9/22	NA	NA		418 days	0'
			Excavation for Raft Footing (400cu.m)		20 days	NA	NA	20 days	Wed 8/6/22	Thu 30/6/22	NA			420 days	0'
CDS1-10			Plate load test at bottom level of compacted generall fill(2no.)		10 days	NA	NA	10 days	Sat 2/7/22	Wed 13/7/22	NA	NA 524		420 days	0
CDS1-10 CDS1-10	100		Soil Replacement (7 layers SRT)		0 days	NA	NA	21 edays	Wed 13/7/22	Wed 3/8/22	NA			513.58 edays	0
CDS1-10 CDS1-10 CDS1-11			Plate load test at bottom level of base slab (1no.)		4 days	NA	NA	4 days	Thu 4/8/22 Tue 10/5/22	Mon 8/8/22 Tue 10/5/22	NA NA			418 days	04
CDS1-00 CDS1-10 CDS1-10 CDS1-11 CDS1-20 CDS1-20	000				0 days		NA	0 days	Tue 10/5/22 Tue 9/8/22	Tue 10/5/22 Tue 13/9/22	NA			523 days 418 days	0°
CDS1-10 CDS1-10 CDS1-11 CDS1-20 CDS1-29	000	V1	Receiving of Civil Requirements from PM		20 dour	NIA									
DS1-10 DS1-10 DS1-11 DS1-20 DS1-20 DS1-29	000 900 000 SV		Footing works		30 days 0 days	NA	NA	30 days 0 days							0
CDS1-10 CDS1-10 CDS1-11	000 900 000 SV				30 days 0 days			0 days	Tue 13/9/22	Tue 13/9/22	NA	NA 529		418 days	



	ract No. DC/2 Wu Hui Efflu			Plant - Main Works Stage 1									Revise	3 Works Programn	ne (Status Date: 31/07/2021)						
ID	Activity ID		Cey T Date	ask Name		PMI & CE no. (NCE no.)	Baseline Duration	Baseline Start	Baseline Finish	Duration	Start	Finish	Actual Start	Actual Finish	Predecessors	Successors		Risk Allowance	% Complete	Otr 3	2020 Qtr 1 Qtr 3
532	CAA-1000	о к	D2B	B-8A Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)	(NGE 110.)		180 days	Wed 29/1/20	Thu 3/9/20	246 days	Mon 1/6/20	Fri 26/3/21	Mon 1/6/20	Fri 26/3/2	1 15,142,184	53FF	0 days		100%	Qira	diri dira
533	CAA-1100	0		Change of pipe bridge design		(057)	0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/2	0	536,537,538	0 days		100%	1	
534	CAA-1200	D		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 1/6/20	Tue 10/11/2	0	536,537,538	0 days		100%		
535	CAA-1300	0		Additional MBV installation (CE xxx)			0 days	NA	NA	135 days	Mon 1/6/20	Tue 10/11/20	Mon 1/6/20	Tue 10/11/2	0	536,537,538	0 days		100%	1	
536	CAA-1400	0		Alternation works for existing Air Blower House No.2 (Pipeline CHTA, approx. 133m DN800 D.I.)			180 days	Wed 29/1/20	Thu 3/9/20	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/20	Fri 26/3/2	1 533,534,535	53FF	0 days		100%	ſ	
537	CAA-1500	о к	D2B	Re-alignmnet of DN800 Temporary Air Main (CHTA) and Provision of FRP Staircases		064	0 days	NA	NA	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/20	Fri 26/3/2	1 533,534,535	53FF	0 days		100%	ľ	
538	CAA-1600	к	D2B	Elevated Section of DN800 Temporary Air Main (CHTA) across existing Bioreactor's Distibution Chamber No. 2		062	0 days	NA	NA	111 days	Wed 11/11/20	Fri 26/3/21	Wed 11/11/20	Fri 26/3/2	1 533,534,535	53FF,539	0 days		100%	1	
539	CAA-2000	о к	D1I	B7-A Alternation works for existing Power House			122 days	Fri 4/9/20	Sat 30/1/21	0 days	Wed 11/11/20	Fri 29/1/21	Wed 11/11/20	Fri 29/1/2	1 13FS-1 day, 122, 160, 162, 176, 538	50FF,540FS+356 days	0 days		100%	1	•
540	CAA-2100) S	SW3	Additional works for Power House		224	0 days	NA	NA	60 days	Thu 14/4/22	Wed 29/6/22	NA	N	A 539FS+356 days	58FF	570 days		0%	1	
541	CAA-3000) S	SW3	Alternation works for existing Membrane Facilities Building No.1			360 days	Mon 1/2/21	Fri 22/4/22	360 days	Tue 19/4/22	Thu 6/7/23	NA	N	A 14FS-1 day,175	58FF	269 days		0%	1	
542	CUU-0000	0 *		External Underground Service, Utilities, Road/Drain			1091 days	Mon 24/2/20	Sat 28/10/23	1192 days	Mon 27/4/20	Mon 13/5/24	Mon 27/4/20	N	A 16		-88 days		46%	1	
543	CUU-1000	0 K	D2A	Process Pipes CHR and CHS (approx. 93m twin DN900 D.I.)		33, 222, 255	325 days	Mon 24/2/20	Sat 27/3/21	379 days	Mon 27/4/20	Wed 4/8/21	Mon 27/4/20	N	A 184,142	554SS+48 days,552SS+48 day	s,55-39 days		99%		
544	CUU-1000	0a		Special Treatment for Removing the Existing Abandoned DN1800 By-pass Pipe and the Concrete Mass in Conflict with the Proposed Sheetpile wall fo trenching work of Process Pipeline CHR and CHS		33	0 days	NA	NA	54 days	Sat 30/5/20	Mon 3/8/20	Sat 30/5/20	Mon 3/8/2	0		0 days		100%	I	
545	CUU-1000	0b		Trenchless work for Process Pipes CHR and CHS (approx. 7m twin DN900 D.I.)	-	255	0 days	NA	NA	60 days	Thu 25/2/21	Mon 10/5/21	Thu 25/2/21	Mon 10/5/2	1	52FF	0 days		100%	1	1
546	CUU-1001	1		Removal of Abandoned DN1800 Concrete Pipe and Concrete Mass near Existing UV Disinfection Channel at CHR & CHS Process Pipe Works Area		033	0 days	NA	NA	43 days	Thu 2/7/20	Thu 20/8/20	Thu 2/7/20	Thu 20/8/2	0		0 days		100%	I	-
547	CUU-1002	2		Grouting for Sheung Shui Slaughter House Boundary Walls along CHR & CHS Pipes Works Area		222	0 days	NA	NA	20 days	Fri 23/10/20	Mon 16/11/20	Fri 23/10/20	Mon 16/11/2	0		0 days		100%		
548	CUU-1004	4		Delay Delivery of DI pipes due to COVID-19		(076)	0 days	NA	NA	75 days	Tue 22/12/20	Thu 25/3/21	Tue 22/12/20	Thu 25/3/2	1	549FF	0 days		100%		
549	CUU-2000	0 S	SW2	Process Pipes, including CHT, CHX, CHY, CHPS1&2, CHS S1&2, CHDO 1&2, CHPSW 1-8, CHTPS, CHPT1&2, CHTF1 1&2, CHTE, CHTD, Foam Collection & Surplus activated sludge rising main pipe			550 days	Mon 29/6/20	Fri 6/5/22	457 days	Mon 19/10/20	Fri 6/5/22	Mon 19/10/20	N	A 184,142,548FF,543SS+48 days	57FF,555,550SS+250 days	63 days		51%	1	
550	CUU-2100	0 S	SW2	Remaining Process Pipes			0 days	NA	NA	270 days	Mon 23/8/21	Fri 22/7/22	NA	N	A 549SS+250 days	57FF	0 days		0%		1
551	CUU-3000	0 S	SW2	Remaining Drainage			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/20	N	A 184,142	555,57FF	0 days	5	45%		
552	CUU-4000	0 S	SW2	Remaining Sewerage			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/20	N	A 184,142,543SS+48 days	555,57FF	0 days	5	45%	1	
553	CUU-5000	0 S	SW2	Remaining Waterworks			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22	Mon 19/10/20	N	A 184,142,543SS+48 days	557FS+2 days,57FF	0 days	5	45%	1	2000
	CUU-6000			Remaining Cable Ducts			550 days	Mon 29/6/20	Fri 6/5/22	520 days	Mon 19/10/20	Fri 22/7/22			A 184,142,543SS+48 days	555,57FF	0 days	5	45%	1	
	CUU-7000		D3A	Roadworks			540 days	Fri 31/12/21	Sat 28/10/23	440 days	Mon 7/11/22	Mon 13/5/24			A 554,551,552,549,352,399,334,433	54FF,558SS+123 days	-88 days	5	0%	1	
556	CLW-000	0 *		Landscaping Works			854 days	Wed 11/5/22	Thu 27/3/25	946 days	Tue 26/7/22	Wed 24/9/25	NA		A 16		0 days		0%		
	CLW-1000			Irrigation System			120 days	Wed 11/5/22	Fri 30/9/22	120 days	Tue 26/7/22	Thu 15/12/22			A 553FS+2 days,184	558,54FF	1 day		0%		1
	CLW-2000			Hard Landscaping Works			220 days	Mon 3/10/22	Mon 3/7/23	214 days	Tue 11/4/23	Sat 23/12/23			A 557,555SS+123 days	559,58FF	-88 days	5	0%		I
559	CLW-3000	0 S	SW3	Soft Landscaping Works			220 days	Tue 4/7/23	Tue 26/3/24	214 days	Wed 27/12/23	Tue 24/9/24	NA	N	A 558,143	560,58FF	-88 days	5	0%	1	1
560	CLW-4000	0 D	DLP	Establishment Works (365 days)			294 days	Wed 27/3/24	Thu 27/3/25	365 days	Wed 25/9/24	Wed 24/9/25	NA	N	A 559,143	59FF,60FF	0 days	5	0%	1	1



y ID	Activity Name	Remaining BL Start Duration (DE/2018/03 R3)	BL Finish (DE/2018/03 R3)	Start	Finish	Total Activ Float Com	7% 2020 ete Jan		Feb	2021 Ma	ar	Apr
SWH - Main	Works Stage 1 Sidestream Treatment Facilities & E&M Wo	1170 23-Oct-19	04-Apr-24	23-Oct-19A	04-Apr-24	0	16		17	1	8	19
Contract Da		1170 23-Oct-19	04-Apr-24	23-Oct-19A	04-Apr-24	0						
Starting Date	& Completion Date	1170 23-Oct-19	04-Apr-24	23-Oct-19A	04-Apr-24	0						
AS000110	Whole Contract Period (1626 days from starting date)	1170 23-Oct-19	04-Apr-24	23-Oct-19A	04-Apr-24	0 28.0	%					
ccess Date		489 23-Oct-19	24-May-22	23-Oct-19A	24-May-22	0	24					
AS001100	Portion C-1A (within 480 to 550 days from starting date)	94 23-Oct-19	24-Apr-21	23-Oct-19A	24-Apr-21	0 82.9	%					
AS001200	Portion C-2A (within 705 to 795 days from starting date)	339 23-Oct-19	25-Dec-21	23-Oct-19A	25-Dec-21	0 57.3	%					
AS001300	Portion C-2B (within 765 to 855 days from starting date)	399 23-Oct-19	23-Feb-22	23-Oct-19A	23-Feb-22	0 53.3	%					
AS001400	Portion C-2C (within 715 to 805 days from starting date)	349 23-Oct-19	04-Jan-22	23-Oct-19A	04-Jan-22	0 56.6	%					
AS001500	Portion C-2D (within 825 to 945 days from starting date)	489 23-Oct-19	24-May-22	23-Oct-19A	24-May-22	0 48.2	%					
AS001600	Portion C-3 (within 615 to 705 days from starting date)	249 23-Oct-19	26-Sep-21	23-Oct-19A	26-Sep-21	0 64.6	%					
AS001800	Portion B-2 (within 615 to 705 days from starting date) (SS by NCE-NCE-219)	249 23-Oct-19	26-Sep-21	23-Oct-19A	26-Sep-21	0 64.6	%					
Key Dates AS002040	KD2B Submission of Remaining Civil Requirement Dwgs, Elec. Schematic Dwgs	1028 23-Oct-19 5 23-Oct-19	14-Nov-23 25-Jan-21	23-Oct-19A 23-Oct-19A	14-Nov-23 25-Jan-21*	0 98.9	0/					
	of SD Bldg, SD & DC, CHP Bldg, etc.											
AS002050	KD3A Completion of Phase 1 Commissioning of Sidestream Treatment Facilities (1140d after Portion B-1 Access)	1028 30-Sep-20	14-Nov-23	30-Sep-20 A	14-Nov-23*	0 9.	%					
ompletion D		1170 23-Oct-19	04-Apr-24	23-Oct-19A	04-Apr-24	0						
	omplete All Designs (exclude Sec. 1 & 3) Contract Duration of Section 2	145 23-Oct-19	14-Jun-21	23-Oct-19A	14-Jun-21	0 75.9	20/					
A5003200	Contract Duration of Section 2	145 23-Oct-19	14-Jun-21	23-Oct-19A	14-Jun-21	0 75.8	%					
Section 3 - C	omplete Design, Construction & T&C for Sidestream Facilities	1170 23-Oct-19	04-Apr-24	23-Oct-19A	04-Apr-24	0						
AS003300	Contract Duration of Section 3	1170 23-Oct-19	04-Apr-24	23-Oct-19A	04-Apr-24	0 28.0	%					
Section 4 - C	omplete Construction & T&C for UV System No.1 & EP Station No. 1	430 23-Oct-19	26-Mar-22	23-Oct-19A	26-Mar-22	0						
AS003400	Contract Duration of Section 4	430 23-Oct-19	26-Mar-22	23-Oct-19A	26-Mar-22	0 51.4	%					
Section 5 - Co AS003500	omplete all remaining Works (incl. T&C) Contract Duration of Section 5	1170 23-Oct-19 1170 23-Oct-19	04-Apr-24 04-Apr-24	23-Oct-19A 23-Oct-19A	04-Apr-24 04-Apr-24	0 28.0	0/					
A3003300	Contract Duration of Section 5	1170 23-00113	04-701-24	20-00-19A	04-Api-24	0 20.0					1 1 1 1	
reliminarie	es	1169 23-Oct-19	03-Apr-24	23-Oct-19A		1						
lobilisation AS010100	Provison of Equipment / Facilities for the PM's Office	1169 23-Oct-19 1169 23-Oct-19	03-Apr-24 03-Apr-24	23-Oct-19A 23-Oct-19A	03-Apr-24 03-Apr-24	1 28.0	%					
												_
AS010210	Design, Procurement & PO & Construction of Contractor's Storage Area (Works Area WA3)	75 20-Nov-19	05-Apr-21	20-Nov-19A	05-Apr-21	2 85.0	%					9
AS010220	Maintain Contractor's Site Office	1112 28-Nov-20	06-Feb-24	28-Nov-20 A	06-Feb-24	2 4.6	%					
AS010230a	Maintain Contractor's Storage Area	1037 06-Apr-21	06-Feb-24	06-Apr-21	06-Feb-24	2	%					
i <mark>te Prelimina</mark> AS010300	Provision of Insurance, Third Party Insurances & PII	1169 23-Oct-19 1169 23-Oct-19	03-Apr-24 03-Apr-24	23-Oct-19A 23-Oct-19A	03-Apr-24 03-Apr-24	1 28.0	% 					
AS010400	Provision of 2 Contract Car for the Use of the PM & Supervisor	1169 23-Oct-19	03-Apr-24	23-Oct-19A	03-Apr-24	1 28.0	%					
AS010420a	Provision of 1 Electric Car for the Use of the PM & Supervisor	1169 22-Jan-20	03-Apr-24	22-Jan-20 A	03-Apr-24	1 23.7						
AS010600	Provision of Photographs	1168 20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2 26.8						
					· · · · · · · · · · · · · · · · · · ·							
AS010700	Provision of Environmental Mitigation Measures	1168 20-Nov-19	02-Apr-24	20-Nov-19A		2 26.8						
AS010800	Provision of Air Pollution Abatment	1168 20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2 26.8	%					
										n	ased on DE/2018/03 R	3
	File Name: DE/2018/03 3M 210120						Contract No. DE/2018/03		_		evision Checked	
	Layout: DE1803 (Progress -3M) TASK filters: 3 Months Rolling (1803 SWH), ♦ Milestone						ent Polishing Plant - Main	-		20-Jan-21 Rev.(KM
	CE.	5					ties and E&M Works for SI	-				
100	Project Baselin				3 Months Ro	olling Prog	ramme (Based on RP Rev.	o) as at 20 Ja	an 2021			
	Page 1 of 8 \diamond Baseline Miles	tone										
JEC	📕 🔹 🔶 Actual Milestor	ne										



ity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 R3)	BL Finish (DE/2018/03 R3)	Start	Finish	Total Float	Activity % Complete	2020		an 16	Feb
AS010900	Provision of Noise Pollution Abatment	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				17
AC011000	Dravision of Masteriator Dellution Abotement	1100	00 Nov 10	00 Apr 04	00 Nov 10 A	00 Apr 04		00.000/				
AS011000	Provision of Wastewater Pollution Abatement	1100	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
AS011100	Provision of Wastement Management	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
AS011200	Provision of Monitoring the Use of Ultra Low Sulphur Diesel	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
AS011300	Provision of Environmental Management	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
A3011300	_	1100	20-1107-13	02-701-24	201100-137	02-701-24	2	20.02 /0				
AS011400	Provision of Site Management Plan for Trip Ticket System	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
AS011600	Provision of Systematic Risk Management	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
AS011700	Provision of Site Liaison Group & Community Liaison Group	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
AS011800	Provision of 24-Hour Telephone Line	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
				•			<u> </u>					
AS012400	Provision of ICE for Certification of the Design, Cal, Dwgs, Plans and all relevant Doc and Process Commissioning	1168	20-Nov-19	02-Apr-24	20-Nov-19A	02-Apr-24	2	26.82%				
Site Upkeepin			20-Nov-19	07-Mar-24	20-Nov-19A	07-Mar-24	2					
AS013100	General Site Upkeeping of the Site	1142	20-Nov-19	07-Mar-24	20-Nov-19A	07-Mar-24	2	27.26%				
Safety and En	nvironmental Management	1142	10-Nov-19	07-Mar-24	10-Nov-19A	07-Mar-24	2					
AS013200	Construction Health and Safety Plan	1142	10-Nov-19	07-Mar-24	10-Nov-19A	07-Mar-24	2	27.72%				
Compliance v	with BEAM Requirements	1142	10-Nov-19	07-Mar-24	10-Nov-19A	07-Mar-24	2					
AS013400	BEAM Plus	1142	10-Nov-19	07-Mar-24	10-Nov-19A	07-Mar-24	2	27.72%				
CHP Building	g	30	06-Apr-21	06-May-21	26-Mar-21	25-Apr-21	221					
AS013450f	Material Submission & Design Calculation Approved	0		06-Apr-21		26-Mar-21	80	0%				
AS013460f	Issued approved submission & Calculation to Cinotech		07-Apr-21	06-May-21	27-Mar-21	25-Apr-21	221	0%				
BIM AS011920a	Review & Update BIM Execution Plan & BIM Model		24-Mar-20 24-Mar-20	06-Feb-24 06-Feb-24	24-Mar-20 A 24-Mar-20 A	06-Feb-24 06-Feb-24	2	21.41%				
								21.11/0				
	Complete All Designs (exclude Sec. 1 & 3)		18-May-20	27-May-21	25-Mar-20 A	27-May-21	12					
	Materials Procurement		18-May-20	20-Mar-21	18-May-20 A	20-Mar-21	80			<u> </u>		 <u></u>
AS023200	Procurement & PO for Biogas Booster and Transfer Pumps (S7)	26	17-Jul-20	15-Jan-21	17-Jul-20 A	15-Feb-21	22	85.79%				
AS023210	Procurement & PO for H2S Removal System (S7)	26	17-Jul-20	15-Jan-21	17-Jul-20 A	15-Feb-21	22	85.79%				
AS023240	Procurement & PO for Waste Gas Burning System (S9)	23	17-Jul-20	12-Jan-21	17-Jul-20 A	12-Feb-21	116	84.67%				 =
AS023340	Procurement & PO for 380V Switchboard (S17)	50	21-Nov-20	20-Mar-21	21-Nov-20 A	20-Mar-21	65	50.83%				
		55	21-1100-20	20-11101-21	21-1100-207		00					
AS023380	Procurement & PO for Control & Monitoring System (S18)	26	17-Jul-20	15-Jan-21	17-Jul-20 A	15-Feb-21	113	85.79%				
AS023400	Procurement & PO for Lifting Appliances (S19)	14	18-May-20	03-Jan-21	18-May-20 A	03-Feb-21	47	93.94%				
AS023520	Procurement & PO for External Sludge Transfer Pump (S21)	10	18-May-20	30-Dec-20	18-May-20 A	30-Jan-21	129	95.59%				
AS023560	Procurement & PO for Ferric Chloride Storage Tank (S21)	24	17-Jul-20	13-Jan-21	17-Jul-20 A	13-Feb-21	115	86.74%				
40000500	Description and & DO for Family Oblights Description Description (0001)		18-May-20	09-Jan-21	18-May-20 A	09-Feb-21	119	91.56%				
AS023580	Procurement & PO for Ferric Chloride Dosing Pump (S21)	20										
AS023580 AS023600	Procurement & PO for Ferric Chloride Dosing Pump (S21) Procurement & PO for Temporary Primary Sludge Pump (S21)		18-May-20	03-Jan-21	18-May-20 A	03-Feb-21	125	93.94%				
		14			18-May-20 A	03-Feb-21 17-Feb-21	125 111	93.94% 84.44%				
AS023600	Procurement & PO for Temporary Primary Sludge Pump (S21) Procurement & PO for Genset	14	18-May-20	03-Jan-21								

	File Name: DE/2018/03 3M 210120 Layout: DE1803 (Progress -3M) TASK filters: 3 Months Rolling (1803 SWH),			Remaining Work Critical Activity Milestone
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	Page 2 of 8	♦		Baseline Milestone
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Actual Milestone

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Drawings		24-Jul-20	04-Feb-21	25-Mar-20 A	07-Mar-21	93	0,0			
& Re-submit Elec. Schematic Drawings (from formation level up to +8mPD)			14-Jan-21	09-May-20 A	14-Feb-21	93	90.04%			
	21	15-Jan-21	04-Feb-21	15-Feb-21	07-Mar-21	93	0%			_
& Re-submit Elec. Schematic Drawings (remaining)	25	24-Jul-20	14-Jan-21	25-Mar-20 A	14-Feb-21	93	91.55%			
& Accept of Elec. Schematic Drawings by PM (remaining)	21	15-Jan-21	04-Feb-21	15-Feb-21	07-Mar-21	93	0%			
ic)	96	02-Jul-20	26-Apr-21	02-Jul-20 A	26-Apr-21	22				
e & Submit Wiring Dwgs, Cable Schedule & Design Cal.	11	02-Jul-20	31-Dec-20	02-Jul-20 A	31-Jan-21	13	92.67%			
& Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	01-Jan-21	21-Jan-21	01-Feb-21	21-Feb-21	13	0%		, 🗖	
& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	22-Jan-21	18-Feb-21	22-Feb-21	21-Mar-21	13	0%			
& Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	19-Feb-21	11-Mar-21	22-Mar-21	11-Apr-21	13	0%			c
e & Submit the Schedule, Design Cal. & Fixing Details of Equipment	47	10-Sep-20	08-Mar-21	10-Sep-20A	08-Mar-21	22	73.89%			
& Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	09-Mar-21	29-Mar-21	09-Mar-21	29-Mar-21	22	0%			
& Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	30-Mar-21	26-Apr-21	30-Mar-21	26-Apr-21	22	0%			
Th)	96	02-Jul-20	26-Apr-21	02-Jul-20 A	26-Apr-21	22				
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e & Submit the Schedule, Design Cal. & Fixing Details of Equipment	47	10-Sep-20	08-Mar-21	10-Sep-20A	08-Mar-21	22	73.89%			
& Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	09-Mar-21	29-Mar-21	09-Mar-21	29-Mar-21	22	0%			
& Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	30-Mar-21	26-Apr-21	30-Mar-21	26-Apr-21	22	0%			
rocess (THP)	65	18-May-20	14-Apr-21	18-May-20 A	26-Mar-21	74				
		-	13-Jan-21	18-May-20 A	15-Jan-21 A		100%			
& Comment on Wiring Dwgs, Cable Schedule & Design Cal.	16	14-Jan-21	03-Feb-21	16-Jan-21 A	05-Feb-21	29	23.81%			-
& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	04-Feb-21	03-Mar-21	06-Feb-21	05-Mar-21	29	0%			
& Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	04-Mar-21	24-Mar-21	06-Mar-21	26-Mar-21	29	0%			
	 & Re-submit Elec. Schematic Drawings (from formation level up to +8mPD) (* Accept of Elec. Schematic Drawings by PM (from formation level up to)) & Re-submit Elec. Schematic Drawings (remaining) * Accept of Elec. Schematic Drawings by PM (remaining) Sc) e & Submit Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Comment on the Schedule, Design Cal. & Fixing Details of Equipment * Comment on the Schedule, Design Cal. & Fixing Details of Equipment * Re-submit Wiring Dwgs, Cable Schedule & Design Cal. * Re-submit Wiring Dwgs, Cable Schedule & Design Cal. * Comment on Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Accept of Wiring Dwgs, Cable Schedule & Design Cal. * Re-submit the Schedule, Design Cal. & Fixing Details of Equipment * & Comment on the Schedule, Design Cal. & Fixing Details of Equipment * & Comment on the Schedule, Design Cal. & Fixing Details of Equipment * & Comment on the Schedule, Design Cal. & Fixing Details of Equipment * & Comment on the Schedule, Design Cal. & Fixing Details of Equipment * & Comment on Wiring Dwgs, Cable Schedule & Design Cal. * Re-submit Wiring Dwgs, Cable Schedule & Design Cal. * Re-submit Wiring Dwgs, Cable Schedule & Desig	a Accept of Elec. 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Schematic Drawings by PM (remaining)2115-Jan-2104-Feb-21Sc)9602-Jul-2026-Apr-21e & Submit Wiring Dwgs, Cable Schedule & Design Cal.2101-Jan-2121-Jan-21& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.2101-Jan-2121-Jan-21& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.2222-Jan-2118-Feb-21& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.2119-Feb-2111-Mar-21e & Submit the Schedule, Design Cal. & Fixing Details of Equipment4710-Sep-2008-Mar-21e & Comment on the Schedule, Design Cal. & Fixing Details of Equipment2109-Mar-2129-Mar-21& Re-submit the Schedule, Design Cal. & Fixing Details of Equipment2830-Mar-2126-Apr-21& Re-submit the Schedule, Design Cal. & Fixing Details of Equipment2830-Mar-2126-Apr-21& Re-submit the Schedule, Design Cal. & Fixing Details of Equipment2101-Jan-2121-Jan-21& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.2110-Jan-2121-Jan-21& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.2110-Jan-2121-Jan-21& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.2119-Feb-2111-Mar-21& Re-submit Wiring Dwgs, Cable Schedule & Design Cal.2119-Feb-2129-Mar-21 <td>(a Accept of Elec. 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File Name: DE/2018/03 3M 210120 Layout: DE1803 (Progress -3M) TASK filters: 3 Months Rolling (1803 SWH), CE.

Page 3 of 8

JEC

Project Baseline Bar Baseline Milestone \diamond **◇**

Remaining Work

Critical Activity

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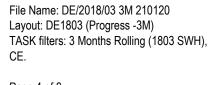
Milestone

Actual Milestone

Actual Progress



<i>i</i> ity ID	Activity Name	Remaining	BL Start	BL Finish	Start	Finish	Total	Activity %	2020			
		Duration	BL Start (DE/2018/03 R3)	(DE/2018/03 R3)			Float	Complete	Jan 16		Feb 17	с 7
AS042310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	0	13-Jan-21	02-Feb-21	08-Dec-20 A	11-Jan-21 A		100%				
AS042320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	19	03-Feb-21	02-Mar-21	12-Jan-21 A	08-Feb-21	99	32.14%				
AS042330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	25-Mar-21	14-Apr-21	09-Feb-21	01-Mar-21	99	0%				
Sludge Diges	stion (SDi)	107	01-Aug-20	07-May-21	01-Aug-20A	07-May-21	10					
AS052200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	27	01-Aug-20	27-Jan-21	01-Aug-20 A	16-Feb-21	20	85%				
AS052210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	28-Jan-21	17-Feb-21	17-Feb-21	09-Mar-21	20	0%				
AS052220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	18-Feb-21	17-Mar-21	10-Mar-21	06-Apr-21	20	0%				
AS052230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	18-Mar-21	07-Apr-21	07-Apr-21	27-Apr-21	20	0%				
AS052300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	37	31-Aug-20	26-Feb-21	31-Aug-20 A	26-Feb-21	10	79.44%				
AS052310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	27-Feb-21	19-Mar-21	27-Feb-21	19-Mar-21	10	0%				
AS052320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	20-Mar-21	16-Apr-21	20-Mar-21	16-Apr-21	10	0%				
AS052330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	17-Apr-21	07-May-21	17-Apr-21	07-May-21	10	0%				
Sludge Dewa	tering (SDe)	89	02-Jul-20	19-Apr-21	02-Jul-20 A	19-Apr-21	29					
AS062200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	11	02-Jul-20	31-Dec-20	02-Jul-20 A	31-Jan-21	13	93.89%				
AS062210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	01-Jan-21	21-Jan-21	01-Feb-21	21-Feb-21	13	0%		L		
AS062210	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		22-Jan-21	18-Feb-21	22-Feb-21	21-1 eb-21 21-Mar-21	13	0%		_ 		
AS062220	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.		19-Feb-21	11-Mar-21	22-1 eb-21 22-Mar-21	11-Apr-21	13	0%				
AS062300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment		03-Sep-20	01-Mar-21	31-Aug-20 A	01-Mar-21	29	77.78%				
AS062310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment		02-Mar-21	22-Mar-21	02-Mar-21	22-Mar-21	29	0%				
AS062320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment		23-Mar-21	19-Apr-21	23-Mar-21	19-Apr-21	29	0%				
	ge & Pre-Treatment (BSPT)		31-Aug-20	08-May-21	31-Aug-20 A	08-May-21	10	0.00/				-
AS072200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.		31-Aug-20	27-Jan-21	31-Aug-20 A	16-Feb-21	21	82%				
AS072210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.		28-Jan-21	17-Feb-21	17-Feb-21	09-Mar-21	21	0%				
AS072220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		18-Feb-21	17-Mar-21	10-Mar-21	06-Apr-21	21	0%				
AS072230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.		18-Mar-21	07-Apr-21	07-Apr-21	27-Apr-21	21	0%				
AS072300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment		22-Oct-20	20-Mar-21	22-Oct-20 A	20-Mar-21	10	60.67%				
AS072310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment		21-Mar-21	10-Apr-21	21-Mar-21	10-Apr-21	10	0%				
AS072320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment		11-Apr-21	08-May-21	11-Apr-21	08-May-21	10	0%				
	eat & Power Generation (CHP)		18-May-20	06-Apr-21	18-May-20 A	05-Apr-21	60	07.074				
AS082200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	5	18-May-20	05-Jan-21	18-May-20 A	25-Jan-21	19	97.85%				
AS082210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	06-Jan-21	26-Jan-21	26-Jan-21	15-Feb-21	19	0%				1
AS082220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		27-Jan-21	23-Feb-21	16-Feb-21	15-Mar-21	19	0%				
AS082230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.		24-Feb-21	16-Mar-21	16-Mar-21	05-Apr-21	19	0%				
AS082300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	12	17-Jul-20	12-Jan-21	17-Jul-20 A	01-Feb-21	70	93.33%				
AS082310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	9	13-Jan-21	02-Feb-21	03-Aug-20 A	10-Feb-21	70	57.14%				
AS082320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	23	03-Feb-21	02-Mar-21	12-Aug-20 A	05-Mar-21	70	17.86%				
AS082330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	17-Mar-21	06-Apr-21	22-Dec-20 A	26-Mar-21	70	0%		,		
Waste Gas B	urning System (WGB)	106	04-Nov-20	06-May-21	15-Oct-20 A	06-May-21	12					
AS092200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.		04-Nov-20	01-Feb-21	15-Oct-20 A	01-Feb-21	12	86.67%				
										1		



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JEC

Actual Progress
Project Baseline Bar

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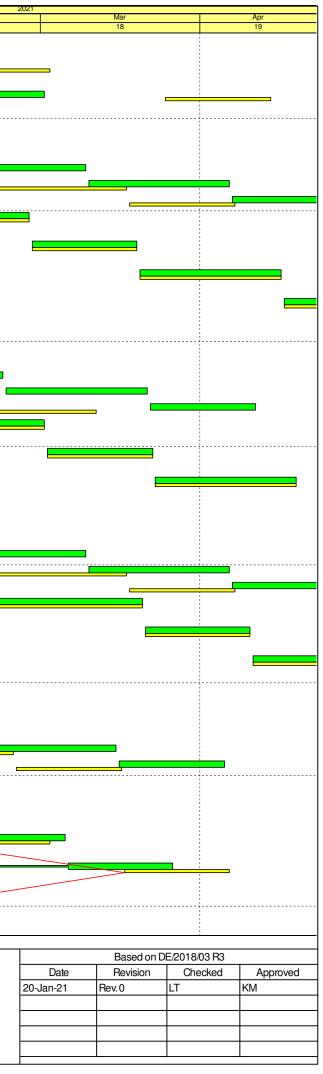
Remaining Work

Critical Activity

Milestone

Baseline Milestone

Actual Milestone



vity ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 R3)	BL Finish (DE/2018/03 R3)	Start	Finish	Total Float	Activity % Complete	2020	Jan		Fab
		Duration	(DE/2016/03 R3)	(DE/2018/03 R3)			Fioat	Complete		16		17
AS092210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.		02-Feb-21	22-Feb-21	02-Feb-21	22-Feb-21	12	0%				
AS092220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		23-Feb-21	22-Mar-21	23-Feb-21	22-Mar-21	12	0%				
AS092230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.		23-Mar-21	12-Apr-21	23-Mar-21	12-Apr-21	12	0%				
AS092300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	57	19-Dec-20	18-Mar-21	29-Nov-20 A	18-Mar-21	12	36.67%				
AS092310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	19-Mar-21	08-Apr-21	19-Mar-21	08-Apr-21	12	0%				
AS092320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	09-Apr-21	06-May-21	09-Apr-21	06-May-21	12	0%				
Plant Service	Water System (PSW)	101	16-Aug-20	01-May-21	16-Aug-20 A	01-May-21	17					
AS122200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	12	16-Aug-20	12-Jan-21	16-Aug-20 A	01-Feb-21	12	92%				
AS122210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	13-Jan-21	02-Feb-21	02-Feb-21	22-Feb-21	12	0%				
AS122220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	03-Feb-21	02-Mar-21	23-Feb-21	22-Mar-21	12	0%				
AS122230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	03-Mar-21	23-Mar-21	23-Mar-21	12-Apr-21	12	0%				
AS122300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	52	15-Oct-20	13-Mar-21	15-Oct-20A	13-Mar-21	17	65.33%				
AC100010	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	01	14-Mar-21	02 Apr 01	14-Mar-21	02 Apr 01	17	00/				
AS122310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	14-11/121-21	03-Apr-21	14-1VIa1-21	03-Apr-21	17	0%				
AS122320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	04-Apr-21	01-May-21	04-Apr-21	01-May-21	17	0%				
Surplus Activ	vated Sludge Pumping Station (SAS)	99	01-Aug-20	25-Apr-21	01-Aug-20A	29-Apr-21	40					
AS142200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.	29	01-Aug-20	30-Jan-21	01-Aug-20 A	18-Feb-21	40	85.64%				
AS142210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	31-Jan-21	20-Feb-21	19-Feb-21	11-Mar-21	40	0%			_	
AS142220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	21-Feb-21	20-Mar-21	12-Mar-21	08-Apr-21	40	0%				
AS142230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	21-Mar-21	10-Apr-21	09-Apr-21	29-Apr-21	40	0%				
AS142300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	25	16-Aug-20	14-Feb-21	16-Aug-20 A	14-Feb-21	44	86.34%				
AS142310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	15-Feb-21	07-Mar-21	15-Feb-21	07-Mar-21	44	0%				
AS142320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	08-Mar-21	04-Apr-21	08-Mar-21	04-Apr-21	44	0%				
AS142330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	05-Apr-21	25-Apr-21	05-Apr-21	25-Apr-21	44	0%				
Control and	Monitoring System	107	30-Oct-20	07-May-21	30-Oct-20 A	07-May-21	32					
AS182200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.		30-Oct-20	27-Jan-21	30-Oct-20 A	16-Feb-21	42	70%				
		<i>L</i> 1	50 001 20	27 041121	50 OC 20A	101 00 21		/0/8				
AS182210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.	21	28-Jan-21	17-Feb-21	17-Feb-21	09-Mar-21	42	0%				
AS182220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.	28	18-Feb-21	17-Mar-21	10-Mar-21	06-Apr-21	42	0%				_
AS182230	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.	21	18-Mar-21	07-Apr-21	07-Apr-21	27-Apr-21	42	0%				
AS182300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	37	14-Dec-20	26-Feb-21	14-Dec-20 A	26-Feb-21	32	50.67%				
AS182310	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment	21	27-Feb-21	19-Mar-21	27-Feb-21	19-Mar-21	32	0%				
AS182320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	28	20-Mar-21	16-Apr-21	20-Mar-21	16-Apr-21	32	0%				
AS182330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21	17-Apr-21	07-May-21	17-Apr-21	07-May-21	32	0%				
Lifting Applia	inces	92	17-Jul-20	24-Apr-21	17-Jul-20 A	22-Apr-21	32					
AS192200	Prepare & Submit Wiring Dwgs, Cable Schedule & Design Cal.		17-Jul-20	30-Jan-21	17-Jul-20 A	18-Feb-21	32	85.35%				
A\$100010	Baview & Comment on Wiring Durge, Cable Cabedule & Design Cal		01 lon 01		10 Eak 01	11 Mar 01	20					
AS192210	Review & Comment on Wiring Dwgs, Cable Schedule & Design Cal.		31-Jan-21	20-Feb-21	19-Feb-21	11-Mar-21	32	0%				
AS192220	Revise & Re-submit Wiring Dwgs, Cable Schedule & Design Cal.		21-Feb-21	13-Mar-21	12-Mar-21	01-Apr-21	32	0%				
AS192230 AS192300	Review & Accept of Wiring Dwgs, Cable Schedule & Design Cal.		14-Mar-21 30-Oct-20	03-Apr-21	02-Apr-21 30-Oct-20 A	22-Apr-21	32	0% 89.25%				
A3192300	Prepare & Submit the Schedule, Design Cal. & Fixing Details of Equipment	10	30-00-20	30-Jan-21	30-00-20 A	30-Jan-21	42	o⊎.∠0% _				
	Review & Comment on the Schedule, Design Cal. & Fixing Details of Equipment			20-Feb-21	31-Jan-21	20-Feb-21	42	0%			_	



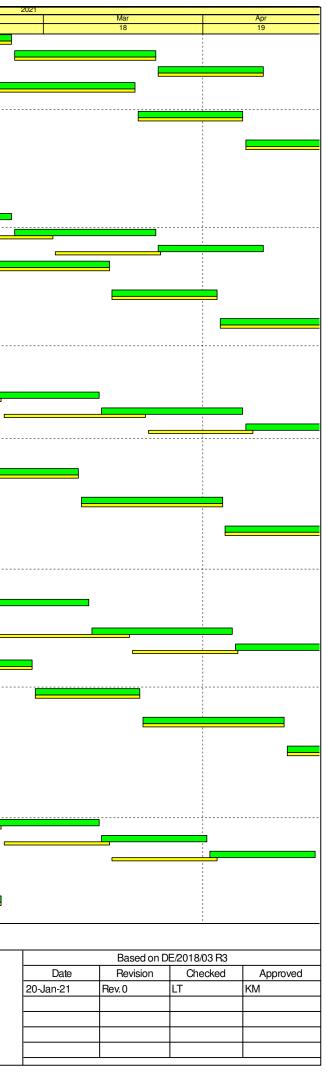
File Name: DE/2018/03 3M 210120 Layout: DE1803 (Progress -3M) TASK filters: 3 Months Rolling (1803 SWH),

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Remaining Work Critical Activity Milestone ٠ Actual Progress Project Baseline Bar Saseline Milestone \diamond

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Actual Milestone



Activity ID	Activity Name	Demoining DL Start	DI Finish	Ctart	Finish	Tatal	A stinuity (9/	2020			
Activity ID	Activity Name	Remaining BL Start Duration (DE/2018/03 F	BL Finish (DE/2018/03 R3)	Start	Finish	Float	Activity % Complete	2020	Jan		Feb
									16	1	17
AS192320	Revise & Re-submit the Schedule, Design Cal. & Fixing Details of Equipment	21 21-Feb-21	13-Mar-21	21-Feb-21	13-Mar-21	42	0%				E
AS192330	Review & Accept of the Schedule, Design Cal. & Fixing Details of Equipment	21 04-Apr-21	24-Apr-21	23-Mar-21	12-Apr-21	42	0%				
			07.4.04		07.4 04	10					
Building Serv		97 03-Oct-20		02-Jul-20 A	27-Apr-21	42	10.070/				
AS201100	Submit & Accept BS Works Design & Dwgs for Sludge Dewatering Building	89 21-Nov-20) 19-Apr-21	21-Nov-20 A	19-Apr-21	50	40.67%				
10004000					10.0.01		45.000/				
AS201200	Submit & Accept BS Works Design & Dwgs for CHP Building	82 14-Nov-20) 12-Apr-21	14-Nov-20 A	12-Apr-21	57	45.33%				
AS201300	Submit & Accept BS Works Design & Dwgs for Sludge Digester & Distribution	89 21-Nov-20) 19-Apr-21	21-Nov-20 A	19-Apr-21	50	40.67%				
	Chamber										
AS201500	Submit & Accept BS Works Design & Dwgs for Workshop No. 2	87 19-Nov-20) 17-Apr-21	02-Jul-20 A	17-Apr-21	52	42%				
AS201700	Submit & Accept BS Works Design & Dwgs for Other Facilities	97 29-Nov-20) 27-Apr-21	29-Nov-20 A	27-Apr-21	42	35.33%				
AS201800	Submit & Accept BS Works Design & Dwgs for FS Installation	70 03-Oct-20	31-Mar-21	02-Jul-20 A	31-Mar-21	69	61.11%				
A3201800	Submit & Accept BS Works Design & Dwys for 1 S Installation	70 03-001-20	51-1VId1-21	02-JUI-20 A	31-1VIA1-21	09	01.11/0				
AS201900	Submit & Accept BS Works Design & Dwgs for Outdoor Lighting Installation	90 28-Jan-21	27-Apr-21	28-Jan-21	27-Apr-21	42	0%				
1.0201000							0,0				
Miscellaneou	S	127 05-Oct-20	27-May-21	05-Oct-20 A	27-May-21	12				-	
AS211100	Submit & Accept Design & Dwgs for DO System	112 14-Dec-20) 12-May-21	14-Dec-20 A	12-May-21	27	25.33%				
					,						
AS211200	Submit & Accept Design & Dwgs for Sewage Pumping Station	100 30-Oct-20	30-Apr-21	30-Oct-20 A	30-Apr-21	39	45.36%				
AS211300	Submit & Accept Design & Dwgs for Process Water Pumping System	70 05-Oct-20	31-Mar-21	05-Oct-20 A	31-Mar-21	69	60.67%				
AS211400	Submit & Accept Design & Dwgs for External Sludge Transfer Pumping System	22 14-Nov-20) 11-Feb-21	14-Nov-20 A	11-Feb-21	117	75.56%				
AS211500	Submit & Accept Design & Dwgs for THP Cooling Water Pumping Station	22 14-Nov-20) 11-Feb-21	14-Nov-20 A	11-Feb-21	117	75.56%				
AS211600	Submit & Accept Design & Dwgs for Ferric Chloride Dosing System	52 14-Nov-20) 13-Mar-21	14-Nov-20 A	13-Mar-21	07	56.67%				
A3211600	Submit & Accept Design & Dwgs for Peric Chilonde Dosing System	52 14-1100-20	13-1Via1-21	14-100-20 A	13-11121	87	30.07 %				
AS211700	Submit & Accept Design & Dwgs for Temporary Primary Sludge Pumping Facility	73 04-Jan-21	03-Apr-21	04-Jan-21 A	03-Apr-21	66	18.89%				
//GE11/00		70 04 041121	0070121	04 0011 2177	0070121	00	10.0070				
AS211800	Submit & Accept Design & Dwgs for Gas Detection System	127 29-Nov-20) 27-May-21	29-Nov-20 A	27-May-21	12	29.44%				
AS211900	Submit & Accept Design & Dwgs for CCTV System	127 29-Nov-20) 27-May-21	29-Nov-20 A	27-May-21	12	29.44%				
Section 3 - 0	Complete Design, Construction & T&C for Sidestream Fac	1144 06-Jun-20	09-Mar-24	07-Jun-20 A	09-Mar-24	0					
Major Subcon	tractor / Supplier Procurement	106 26-Oct-20	22-Mar-21	26-Oct-20 A	06-May-21	0					
Civil & Buildin	ng Contractor	106 26-Oct-20	22-Mar-21	26-Oct-20 A	06-May-21	0					
For Pre-drilli	ing & Post-drilling	53 26-Oct-20	22-Mar-21	26-Oct-20 A	14-Mar-21	39					
AS512430e	Submit Tender proprosal of Civil Contractor (Pre-drilling & Post-drilling)	0 26-Oct-20	31-Dec-20	26-Oct-20 A	06-Jan-21 A		100%				
AS512440e	Review & Accept the Tender proprosal of Civil Contractor (Pre-drilling &	7 01-Jan-21	21-Jan-21	07-Jan-21 A	27-Jan-21	39	66.67%				
	Post-drilling)										
	Tender Invitation of Civil Contractor (Pre-drilling & Post-drilling)	14 22-Jan-21	11-Feb-21	28-Jan-21	10-Feb-21	39	0%				
AS512460e	Submission of Tender Report	4 12-Feb-21	18-Feb-21	11-Feb-21	14-Feb-21	39	0%				
AS512470e	Review & Accept the Tender Report by PM	21 19-Feb-21	11-Mar-21	15-Feb-21	07-Mar-21	39	0%				
AS512480e	Contract Preparation	3 12-Mar-21	14-Mar-21	08-Mar-21	10-Mar-21	39	0%				
AS512490e	Civil Contractor (Pre-drilling & Post-drilling) Award	1 15-Mar-21	15-Mar-21	11-Mar-21	11-Mar-21	39	0%				
AS512500e	Mobilisation	3 16-Mar-21	22-Mar-21	12-Mar-21	14-Mar-21	39	0%				
For Piling		89		04-Jan-21 A	19-Apr-21	0					
	Submit Tender proprosal of Civil Contractor (Piling)	22		04-Jan-21 A	11-Feb-21	0	43.59%				
AS512520f	Review & Accept the Tender proprosal of Civil Contractor (Pre-drilling &	25		12-Feb-21	08-Mar-21	0	0%				
	Post-drilling)										
AS512530f	Tender Invitation of Civil Contractor (Pre-drilling & Post-drilling)	14		09-Mar-21	22-Mar-21	0	0%				
AS512540f	Submission of Tender Report	7		23-Mar-21	29-Mar-21	0	0%				
AS512550f	Review & Accept the Tender Report by PM	21		30-Mar-21	19-Apr-21	0	0%				
For Main Civ	ril Works	51		17-Mar-21	06-May-21	0					

File Name: DE/2018/03 3M 210120 Layout: DE1803 (Progress -3M) TASK filters: 3 Months Rolling (1803 SWH), CE.

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JEC

Milestone
 Actual Progress
 Project Baseline Bar
 Baseline Milestone

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Remaining Work

Critical Activity

Actual Milestone



)	Activity Name	Duration (DE/2018/03 R3)	BL Finish (DE/2018/03 R3)	Start	FILISI	Float	Activity % Complete	Jan Feb 16 17		Mar 18		Apr 19
	Submit Tender proprosal of Civil Contractor (Piling)	30		17-Mar-21*	15-Apr-21	0	0%					
AS512600f	Review & Accept the Tender proprosal of Civil Contractor (Pre-drilling & Post-drilling)	21		16-Apr-21	06-May-21	0	0%					
esign & Subi	mission	386 06-Jun-20	14-Jan-22	07-Jun-20 A	10-Feb-22	243						
Architectural		386 03-Nov-20	14-Jan-22	03-Nov-20 A		243	1000/					
AS160120	Revise & Re-submit Building Layout Plan	0 28-Nov-20	25-Dec-20	28-Nov-20 A	24-Dec-20 A		100%					
AS160130	Review & Accept of Building Layout Plan by PM	15 26-Dec-20	15-Jan-21	25-Dec-20 A	04-Feb-21	77	28.57%					
AS160190e	Cooordination Meeting with DSD (Employer) for the Architectural Drawing	0	18-Feb-21		17-Mar-21	243	0%		♦	•		
AS160220	Revise & Re-submit Architectural Design / Drawings	0 28-Nov-20	25-Dec-20	28-Nov-20 A	24-Dec-20 A		100%					
AS160230	Review & Accept of Architectural Design / Drawings by PM	15 26-Dec-20	15-Jan-21	25-Dec-20 A	04-Feb-21	284	28.57%					
AS160240	Review & Accept of Architectural Design / Drawings by DSD (incl. VCAB) & DAP of	330 19-Feb-21	14-Jan-22	18-Mar-21	10-Feb-22	243	0%					
AS160500	ArchSD Prepare & Submit ABWF Works Drawings	0 03-Nov-20	10-Dec-20	03-Nov-20 A	24-Dec-20 A		100%					
AS160510	Review & Comment on ABWF Works Drawings by PM	7 11-Dec-20	31-Dec-20	25-Dec-20 A	27-Jan-21	243	66.67%					
		00 01 1 01		00.101			00/					
AS160520 AS160530	Revise & Re-submit ABWF Works Drawings Review & Accept of ABWF Works Drawings by PM	28 01-Jan-21 21 29-Jan-21	28-Jan-21 18-Feb-21	28-Jan-21 25-Feb-21	24-Feb-21 17-Mar-21	243 243	0% 0%					
Civil / Structu		112 24-Oct-20	12-Mar-21	25-Feb-21 24-Oct-20 A	12-May-21	190	0%					
	Revise & Re-submit Loading Plan to ICE	7 24-Oct-20	27-Nov-20	24-Oct-20 A	27-Jan-21	11	89.23%					
AS160270e	Review & Accept of Loading Plan by ICE	7 28-Nov-20	04-Dec-20	28-Jan-21	03-Feb-21	11	0%					
AS160280e	Prepare & Submit Loading Plan to PM	7 05-Dec-20	11-Dec-20	04-Feb-21	10-Feb-21	11	0%					
AS160290e	Review & Accept of Loading Plan by PM & DSD (incl. BCM)	60 12-Dec-20	09-Feb-21	11-Feb-21	11-Apr-21	11	0%					
AS160320	Revise & Re-submit Foundation Design / Drawings to ICE & PM	4 28-Nov-20	11-Dec-20	28-Nov-20 A	24-Jan-21	0	71.43%					
AS160330	Review & Accept of Foundation Design / Drawings by ICE & PM	21 12-Dec-20	01-Jan-21	25-Jan-21	14-Feb-21	0	0%					
AS160340e	Prepare & Submit Foundation Design / Drawings to DSD (incl. BCM)	7 02-Jan-21	08-Jan-21	15-Feb-21	21-Feb-21	0	0%					
AS160350e	Review & Accept of Foundation Design / Drawings by DSD (incl. BCM)	60 09-Jan-21	09-Mar-21	22-Feb-21	22-Apr-21	0	0%					
AS160410	Review & Comment on Substructure / Superstructure Design / Drawings by ICE & PM	10 06-Nov-20	30-Nov-20	06-Nov-20 A	30-Jan-21	72	81.82%					
AS160420	Revise & Re-submit Substructure / Superstructure Design / Drawings to ICE & PM	14 01-Dec-20	14-Dec-20	31-Jan-21	13-Feb-21	190	0%					
AS160430	Review & Accept of Substructure / Superstructure Design / Drawings by ICE & PM	21 15-Dec-20	04-Jan-21	14-Feb-21	06-Mar-21	190	0%					
AS160440e	Prepare & Submit Substructure / Superstructure Design / Drawings to DSD (incl. BCM)	7 05-Jan-21	11-Jan-21	07-Mar-21	13-Mar-21	190	0%					
AS160450e		60 12-Jan-21	12-Mar-21	14-Mar-21	12-May-21	190	0%					
Process Desi	,	35 11-Jan-21	14-Feb-21	09-Dec-20 A	24-Feb-21	413						
	Revise & Re-submit E&M Works (Process) Design Drawings	14 11-Jan-21	24-Jan-21	09-Dec-20 A	03-Feb-21	413	0%					
AS512250e	Review & Accept of E&M Works (Process) Design Drawings by PM	21 25-Jan-21	14-Feb-21	04-Feb-21	24-Feb-21	413	0%					
E&M Design		85 06-Jun-20	28-Feb-21	07-Jun-20 A	15-Apr-21	217	070					
AS151100	Prepare & Submit General Arrangement Drawings	15 06-Jun-20	20-Dec-20	07-Jun-20 A	04-Feb-21	212	93.39%					
AS151110	Review & Comment on General Arrangement Drawings by PM	21 21-Dec-20	10-Jan-21	05-Feb-21	25-Feb-21	217	0%					
AS151120	Revise & Re-submit General Arrangement Drawings	28 11-Jan-21	07-Feb-21	26-Feb-21	25-Mar-21	217	0%					
AS151130	Review & Accept of General Arrangement Drawings by PM	21 08-Feb-21	28-Feb-21	26-Mar-21	15-Apr-21	217	0%					
BS		46 01-Feb-21	18-May-21	11-Dec-20 A	07-Mar-21	467						
AS201405e	Review & Comment on BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	11 24-Mar-21	13-Apr-21	11-Dec-20 A	31-Jan-21	467	47.62%					
AS201410e	Revise & Re-submit BS Works Design & Dwgs for Sidestream Treatment Facilities	14 14-Apr-21	27-Apr-21	01-Feb-21	14-Feb-21	467	0%					
				1	,							
	File Name: DE/2018/03 3M 210120	ork					C -	ntract No. DE/2019/02		Based on	DE/2018/03 R3	
	Layout: DE1803 (Progress -3M)							ntract No. DE/2018/03	Date	Revision	Checked	Appro
	TASK filters: 3 Months Rolling (1803 SWH),							t Polishing Plant - Main Works Stage 1	20-Jan-21	Rev.0	LT	КМ
	CE. Actual Progres	s						es and E&M Works for Sluge Treatment Faciliteis				
	Project Baseli	ne Bar			3 Months I	Rolling	; Progra	mme (Based on RP Rev.5) as at 20 Jan 2021				
	Page 7 of 8 \diamond \diamond Baseline Miles											
	Actual Milesto	200		1					1	1	1	1

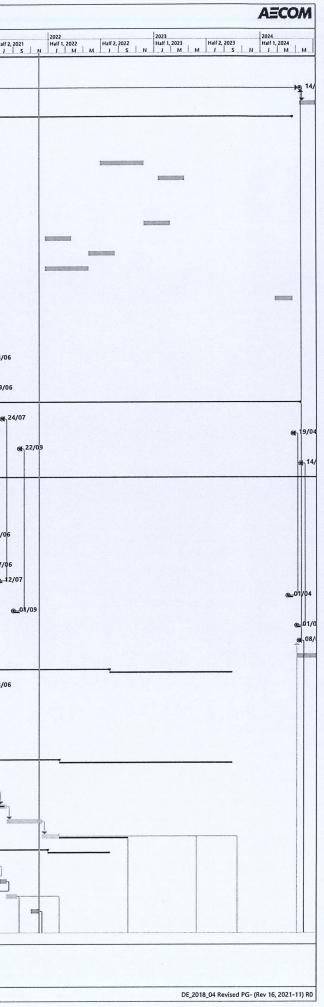


ty ID	Activity Name	Remaining Duration	BL Start (DE/2018/03 R3)	BL Finish (DE/2018/03 R3)	Start	Finish	Total Float	Activity % Complete	2020 Jan Feb
1000011115					4551.04	07.14			16 17
AS201415e	Review & Accept of BS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21	28-Apr-21	18-May-21	15-Feb-21	07-Mar-21	467	0%	
AS201430e	Review & Comment on FS Works Design & Dwgs for Sidestream Treatment	0	01-Feb-21	21-Feb-21	11-Dec-20 A	19-Jan-21 A		100%	
	Facilities by PM	-							
AS201440e	Revise & Re-submit FS Works Design & Dwgs for Sidestream Treatment Facilities	14	22-Feb-21	07-Mar-21	20-Jan-21 A	03-Feb-21	73	0%	
AS201450e	Review & Accept of FS Works Design & Dwgs for Sidestream Treatment Facilities by PM	21	08-Mar-21	28-Mar-21	04-Feb-21	24-Feb-21	73	0%	
Maior Plant &	Materials Procurement	387	23-Mar-21	13-Apr-22	23-Mar-21	13-Apr-22	0		
Civil & Struct			23-Mar-21	06-May-21	23-Mar-21	06-May-21	0		
AS153130e	Procurement, Manufacture & Delivery of Piling	45	23-Mar-21	06-May-21	23-Mar-21	06-May-21	0	0%	
E&M Process	5	360	19-Apr-21	13-Apr-22	19-Apr-21	13-Apr-22	0		
AS153100	Procurement, Manufacture & Delivery of Deammonification Sidestream Treatment	360	19-Apr-21	13-Apr-22	19-Apr-21	13-Apr-22	0	0%	
	Facilities								
	ement, Tilting & Utility Monitoring		12-Dec-20	09-Mar-24	12-Dec-20 A	09-Mar-24	0		
AS153200f	Ground Settlement, Tilting & Utility Monitoring	1144	12-Dec-20	09-Mar-24	12-Dec-20 A	09-Mar-24	0	3.38%	
Civil Works Co	onstruction	25	12-Dec-20	14-Feb-21	12-Dec-20 A	14-Feb-21	67		
AS161120	Ground Investigation		12-Dec-20	14-Feb-21	12-Dec-20 A	14-Feb-21	67	61.54%	
		20	200 20		12 200 207	1110021		01.0470	
Statutory Sub	mission / Inspection (FSD)	90	12-Jan-21	11-Apr-21	21-Jan-21	20-Apr-21	32		
AS201440	Prepare & Submit GBP for FSD approval	90	12-Jan-21	11-Apr-21	21-Jan-21*	20-Apr-21	32	0%	
Section 4 - 0	Complete Construction & T&C for UV System No.1 & EP S	271	18-Apr-20	07-Nov-21	18-Apr-20 A	18-Oct-21	100		
	Materials Fabrication & Delivery	271	18-Apr-20	07-Nov-21	18-Apr-20 A	18-Oct-21	100		
AS103160	Procurement & PO for FRP Cover (S11)		18-Apr-20	31-Jan-21	18-Apr-20 A	20-Feb-21	100	89.24%	
			•		•				
AS103320	Procurement & PO for Elec. Materials	31	18-Jul-20	31-Jan-21	18-Jul-20 A	20-Feb-21	168	84.34%	
AS104100	Fabrication of UV Disinfection System (S10)	138	18-Jan-21	16-Jul-21	10-Dec-20 A	07-Jun-21	53	23.33%	
AS104120	Fabrication & Delivery of Lift-up Pumps (S11)	1/2	11-Jan-21	09-Jul-21	14-Dec-20 A	11-Jun-21	42	21.11%	
A0104120	Tableauon a Delivery of Lift up Fullips (OTT)	142	11 Uali Zi	00 001 21	14 000 207	TT OUT 21	72	21.1170	
AS104140	Fabrication & Delivery of Transfer Pumps (S13)	149	26-Feb-21	24-Aug-21	21-Dec-20 A	18-Jun-21	81	17.22%	
AS104160	Fabrication & Delivery of FRP Cover (S11)		01-Feb-21	30-Jul-21	21-Feb-21*	18-Oct-21	100	0%	
AS104180	Fabrication & Delivery of EOT Cranes (2T & 5T) (S19)		12-Dec-20	10-May-21	21-Jan-21*	20-May-21	4	0%	
AS104200	Fabrication & Delivery of Stoplogs (S21)	234	11-Feb-21	07-Nov-21	16-Dec-20 A	11-Sep-21	91	13.33%	
AS104000	Exprisation & Dolivory of Denotedya (201)	067	11 Eab 01	07 Nov 01	19 Jan 01 A	14 Oct 01	EO	1 110/	
AS104220	Fabrication & Delivery of Penstocks (S21)	20/	11-Feb-21	07-Nov-21	18-Jan-21 A	14-Oct-21	58	1.11%	
AS104300	Fabrication & Delivery of Pipeworks & Associated Valves	180	11-Jan-21	09-Jul-21	21-Jan-21*	19-Jul-21	4	0%	
AS104400	Fabrication & Delivery of FS System (S20)		18-Apr-21	14-Oct-21	18-Apr-21*	14-Oct-21	10	0%	
Section 5 - (Complete all remaining Works (incl. T&C)		18-Jan-21	19-Mar-22	30-Jan-21	19-Feb-22	704		
	AT & Delivery of Major Plant & Materials	386	18-Jan-21	19-Mar-22	30-Jan-21	19-Feb-22	383		
AS023290	Procurement & PO for Pipeworks & Associated Valves		29-Jan-21	28-May-21	30-Jan-21	29-May-21	10	0%	
AS023620	Procurement & PO for Elec. Materials		13-Apr-21	, 11-Jul-21	13-Apr-21	11-Jul-21	12	0%	
AS501880	Fabrication & Delivery of Process Water Pump (S21)		01-Apr-21	25-Jan-22	01-Apr-21	25-Jan-22	300	0%	
AS501920	Fabrication & Delivery of THP Cooling Pump (S21)	360	25-Mar-21	19-Mar-22	25-Feb-21	19-Feb-22	383	0%	
AS501990b	Fabrication & Delivery of Genset	360	18-Jan-21	12-Jan-22	18-Feb-21	12-Feb-22	252	0%	
Statutory Sub	mission / Inspection	306	21-Mar-21	31-Jan-22	21-Mar-21	20-Jan-22	734		
EPD Submiss	sion / Inspection	300	07-Apr-21	31-Jan-22	27-Mar-21	20-Jan-22	734		
AS509520a	EPD Submission & Approval for Air Pollution Control - CHP, CAPC, Flare	300	07-Apr-21	31-Jan-22	27-Mar-21	20-Jan-22	734	0%	
	ission / Inspection		21-Mar-21	16-Sep-21	21-Mar-21	16-Sep-21	598		
AS509370b	5		18-Apr-21	16-Jun-21	18-Apr-21	16-Jun-21	250	0%	
AS509380b	Application & Approval of the Zone Classification of Hazardous Area - including Fire Risk Assessment Report	180	21-Mar-21	16-Sep-21	21-Mar-21	16-Sep-21	598	0%	
AS509400a	Application for Construction Approval of Notifiable Gas Installation (Form 104)		21-Mar-21	16-Sep-21	21-Mar-21	16-Sep-21	598	0%	

JEC	File Name: DE/2018/03 3M 210120 Layout: DE1803 (Progress -3M) TASK filters: 3 Months Rolling (1803 SWH), CE. Page 8 of 8	Remaining Work Critical Activity Milestone Actual Progress Project Baseline Bar Baseline Milestone Actual Milestone	Contract No. DE/2018/03 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 Sidestream Treatment Facilities and E&M Works for Sluge Treatment Faciliteis 3 Months Rolling Programme (Based on RP Rev.5) as at 20 Jan 2021
		 Actual Milestone 	

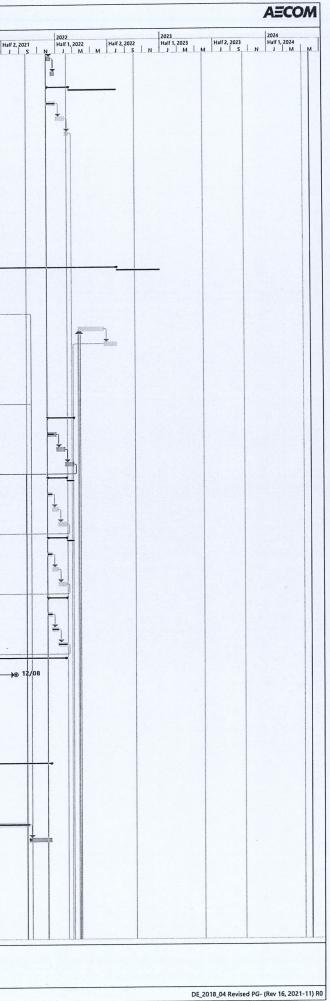


10	WBS	Task Name	Duration between Task	Start	Finish	Early Start	Early Finish	Late Start	Late Finish		Vorks for Sewage Treatment	Resource Names	2020		2021
			Start and Finish										Half 1, 2020 N. J. M.	Half 2, 2020 M J S	Half 1, 202
I	11	DE/2018/04 - Contract Master Programme	1990 day:	s Mon 02/12/19	Tue 13/05/25	Mon 02/12/19	Tue 13/05/25	Mon 02/12/19	Tue 13/05/25	0 days					
	21.1	Starting Date	0 days	s Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	0 days	355+1625 edays,633,206	!	02/12		
	3 1.2	Completion Date	0 days	s Tue 14/05/24	Tue 14/05/24	Tue 14/05/24	Tue 14/05/24	Tue 14/05/24	Tue 14/05/24	0 days 255+1625	er4				
	41.3	Defect Dates with respect to Completion Date	365 days	s Tue 14/05/24	Tue 13/05/25	Tue 14/05/24	Tue 13/05/25	Tue 14/05/24	Tue 13/05/25	0 days 3					
	52	Access Dates	1599 day:	s Mon 02/12/19	Thu 18/04/24	Mon 02/12/19	Thu 18/04/24	Mon 02/12/19	Thu 18/04/24	0 days					
	62.1	Access Date for Works Area WA1-C	90 day:	s Mon 02/12/19	Sat 29/02/20	Mon 02/12/19	Sat 29/02/20	Mon 02/12/19	Sat 29/02/20	0 days					
	72.2	Access Date for Works Area WA2-C	90 days	s Mon 02/12/19	Sat 29/02/20	Mon 02/12/19	Sat 29/02/20	Mon 02/12/19	Sat 29/02/20	0 days					
	8 2.3	Access Date for Portion B-2, Inlet Works No. 1		s Tue 28/06/22	Fri 25/11/22	Tue 28/06/22	Fri 25/11/22	Tue 28/06/22	Fri 25/11/22	0 edays					
	92.4	Access Date for Portion B-3, PST No. 1~4		s Sat 14/01/23	Fri 14/04/23	Sat 14/01/23		Sat 14/01/23	Fri 14/04/23	0 edays					
													02/12		
	10 2.5	Access Date for Portion B-3A, Existing PST No. 4 and No. 6		s Mon 02/12/19	Mon 02/12/19			Mon 02/12/19	Mon 02/12/19	0 days					
	112.6	Access Date for Portion B-3B, Temporary Filtrate Lifting Well and Eq. Tank	0 day:	s Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	0 days			02/12		
	12 2.7	Access Date for Portion B-4, BR 2A & 2B	90 eday:	s Fri 25/11/22	Thu 23/02/23	Fri 25/11/22	Thu 23/02/23	Fri 25/11/22	Thu 23/02/23	0 edays					
	13 2.8	Access Date for Portion B-5A, MFB No. 2 below 1st floor level	90 edays	s Mon 20/12/21	Sun 20/03/22	Mon 20/12/21	Sun 20/03/22	Mon 20/12/21	Sun 20/03/22	0 edays					
	142.9	Access Date for Portion B-5B, MFB No. 2 remaining portion	90 edays	s Thu 19/05/22	Wed 17/08/22	Thu 19/05/22	Wed 17/08/22	Thu 19/05/22	Wed 17/08/22	0 edays					
1	15 2.10	Access Date for Portion B-7 & 7B, Chemical Dosing, Concrete Plinth for DOs,	150 edays	s Mon 20/12/21	Thu 19/05/22	Mon 20/12/21	Thu 19/05/22	Mon 20/12/21	Thu 19/05/22	0 edays					
1	16 2.11	Access Date for Portion B-7A & 7B, area for modification of existing emerger	0 eday:	s Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	0 edays			02/12		
1	17 2.12	Access Date for Portion B-9B, underground pipework	60 edays	s Sun 18/02/24	Thu 18/04/24	Sun 18/02/24	Thu 18/04/24	Sun 18/02/24	Thu 18/04/24	0 edays					
1	182.13	Access Date for B-10, existing sludge thickening building		s Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	0 edays			• 02/12		
-	193	Key Dates		s Mon 02/12/19	Wed 09/06/21			1	Wed 09/06/21	0 days					
-	203.1	KD1A - Submission of civil and dimensional requirement drawings, electrical		s Mon 02/12/19	Fri 06/11/20	Mon 02/12/19		Mon 02/12/19	Fri 06/11/20	0 edays 31FF					€ 06/11
-															
	213.2	KD1B - Submission of remaining civil and dimensional requirement drawings		s Mon 02/12/19	Fri 04/06/21	Mon 02/12/19		Mon 02/12/19	Fri 04/06/21	0 edays 32FF					
	223.3	KD3A - Completion of E&M Installation works of existing power house in Pol	240 edays	s Mon 02/12/19	Wed 29/07/20			Mon 02/12/19	Wed 29/07/20	0 edays 33FF				@ 29/07	
	23 3.4	KD3B - Completion of all work for reprovision of the existing Primary Sedime	555 edays	s Mon 02/12/19	Wed 09/06/21	Mon 02/12/19	Wed 09/06/21	Mon 02/12/19	Wed 09/06/21	0 edays 34FF					
	24.4	Sectional Completion Dates	1625 days	s Mon 02/12/19	Tue 14/05/24	Mon 02/12/19	Tue 14/05/24	Mon 02/12/19	Tue 14/05/24	0 days					
	25 4.1	Section 1 - Completion of the design of E&M Works for all works as defined	600 edays	s Mon 02/12/19	Sat 24/07/21	Mon 02/12/19	Sat 24/07/21	Mon 02/12/19	Sat 24/07/21	0 edays 35FF					
-	264.2	Section 2 - Completion of all works for Inlet Works, PST No. 1~4, BR No. 2A {	1600 edays	s Mon 02/12/19	Fri 19/04/24	Mon 02/12/19	Fri 19/04/24	Mon 02/12/19	Fri 19/04/24	0 edays 36FF					
	27 4.3	Section 3 - Completion of all works for retrofitting of the existing PSTetc (6	660 edays	s Mon 02/12/19	Wed 22/09/21	Mon 02/12/19	Wed 22/09/21	Mon 02/12/19	Wed 22/09/21	0 edays 37FF					
-	284.4	Section 4 - Completion of Work for remainder of the works (1625 days after		s Mon 02/12/19	Tue 14/05/24				Tue 14/05/24	0 edays 38FF					
-	295	DE/2018/04 - the Contractor's Programme (w/ Defects Date of Planned		s Mon 02/12/19	Wed 30/04/25				Wed 30/04/25	0 days					
	2.55	Completion Date)	2577 003.	5111011 02/22/25	110050704725		1100 307 047 23		112030,04725	o days					
-	305.1	Starting Date	0 dav	s Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	Mon 02/12/19	0 days	633,20655+30 edays,425	1	02/12		
-		Planned Key Date Completion Date - KD1A			Fri 30/10/20	Fri 30/10/20					20FF				e-30/10
	315.2			s Fri 30/10/20				Fri 06/11/20	Fri 06/11/20	7 days					,,
	325.3	Planned Key Date Completion Date - KD1B		s Tue 01/06/21	Tue 01/06/21		Tue 01/06/21		Fri 04/06/21	3 days	21FF				
	335.4	Planned Key Date Completion Date - KD3A	0 days	s Wed 22/07/20	Wed 22/07/20	Wed 22/07/20	Wed 22/07/20	Wed 29/07/20	Wed 29/07/20	7 days	22FF			@_22/07	
	345.5	Planned Key Date Completion Date - KD3B	0 days	s Mon 07/06/21	Mon 07/06/21	Mon 07/06/21	Mon 07/06/21	Wed 09/06/21	Wed 09/06/21	2 days	23FF				
	355.6	Planned Sectional Completion Date - Section 1	0 days	s Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Sat 24/07/21	Sat 24/07/21	11 days	25FF				
	365.7	Planned Sectional Completion Date - Section 2	0 days	s Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Fri 19/04/24	Fri 19/04/24	18 days	26FF				
-	375.8	Planned Sectional Completion Date - Section 3	0 days	s Wed 01/09/21	Wed 01/09/21	Wed 01/09/21	Wed 01/09/21	Wed 22/09/21	Wed 22/09/21	21 days	27FF				
-	385.9	Planned Sectional Completion Date - Section 4	0 days	s Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Tue 14/05/24	Tue 14/05/24	13 days	28FF				
-	395.10	Planned Completion Date	0 days	s Wed 08/05/24	Wed 08/05/24	Wed 08/05/24	Wed 08/05/24	Tue 14/05/24	Tue 14/05/24	5 days 1291,129	2,13				
-	405.11	Defect Dates with respect to planned completion date		s Wed 01/05/24	Wed 30/04/25	Wed 01/05/24	Wed 30/04/25		Wed 30/04/25	0 days	· [
		Part A: Procurement and Delivery of Major Plant and Materials		s Wed 01/07/20	Thu 28/07/22				Sat 23/09/23	422 days					
	415.12														
	425.12.1	Planned Completion Date for Procurement of major plant and materials		s Thu 03/06/21	Thu 03/06/21		Thu 03/06/21		Thu 03/06/21	0 days 3055+550	01				
	43 5.12.2	General - stoplogs and penstocks, C11, EQT013		s Wed 01/07/20	Wed 28/10/20			Wed 01/07/20		0 days					
	445.12.2.1	Submission for acceptance of purchasing package	60 days	s Wed 01/07/20	Sat 29/08/20	Wed 01/07/20	Sat 29/08/20	Wed 01/07/20	Sat 29/08/20	0 days	45				
	45 5.12.2.2	Invitation of quotations for purchasing package	30 days	s Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days 44	46			Ť	
-	465.12.2.3	Acceptance of conforming quotation (Completed)	30 days	s Tue 29/09/20	Wed 28/10/20	Tue 29/09/20	Wed 28/10/20	Tue 29/09/20	Wed 28/10/20	0 days 45	257			+	
	47 5.12.3	General - Instrumentations except use at BR, C11, EQT035-1	401 days	s Sat 02/01/21	Sun 06/02/22	Sat 02/01/21	Sun 06/02/22	Sat 02/01/21	Sat 23/09/23	594 days					
	485.12.3.1	Submission for acceptance of purchasing package	60 days	s Sat 02/01/21	Tue 02/03/21	Sat 02/01/21	Tue 02/03/21	Sat 02/01/21	Tue 02/03/21	0 days					
-	495.12.3.2	Invitation of quotations for purchasing package (Rev. 10)		s Fri 11/06/21	Sat 10/07/21		Sat 10/07/21		Sat 10/07/21	0 days	50		-		
-	505.12.3.3	Acceptance of conforming quotation (Rev. 10)		s Sun 11/07/21	Mon 09/08/21		Mon 09/08/21		Sun 26/03/23	0 days 49	51				
-	515.12.3.4	Manufacturing and Factory Acceptance Test of Plant (Rev. 10)		s Tue 10/08/21	Wed 08/12/21				Tue 25/07/23		52				
										0 days 50					
	525.12.3.5	Shipping and Delivery of Plant (Rev. 10)		s Thu 09/12/21	Sun 06/02/22			Wed 26/07/23		237 days 51	339,470,752				
	53 5.12.4	General - pipework and valves, C11, ref. EQT036 (Rev. 11)		5 Mon 02/11/20	Tue 28/12/21				Sat 30/07/22	214 days					
	545.12.4.1	Submission for acceptance of purchasing package (Rev. 11)	255 days	Mon 02/11/20	Wed 14/07/21	Mon 02/11/20	Wed 14/07/21	Mon 02/11/20	Sat 17/07/21	0 days	55				
	55 5.12.4.2	Invitation of quotations for purchasing package (Rev. 11)	40 days	s Fri 01/01/21	Sun 08/08/21	Fri 01/01/21	Sun 08/08/21	Fri 01/01/21	Sun 08/08/21	0 days 54	56				₩
5	565.12.4.3	Acceptance of conforming quotation (Rev. 11)	50 days	s Sun 31/01/21	Sun 12/09/21	Sun 31/01/21	Sun 12/09/21	Sun 31/01/21	Sat 30/07/22	0 days 55	283,289,434,563,686				9
	575.12.4.4	Submission for acceptance of purchasing package for remaining pipework and valves (Rev. 13)	30 days	s Mon 01/11/21	Tue 30/11/21	Mon 01/11/21	Tue 30/11/21	Mon 01/11/21	Tue 30/11/21	0 days	58				



> W85 58 5.12.45 59 5.12.46 60 5.12.51 61 5.12.51 62 5.12.53 64 5.12.63 65 5.12.61 65 5.12.61 66 5.12.63 68 5.12.71 70 5.12.72 71 5.12.83 72 5.12.83 73 5.12.83 76 5.12.83 78 5.12.93 78 5.12.93 82 5.12.10 83 5.12.10 84 5.12.10 85 5.12.11 85 5.12.11 85 5.12.11 85 5.12.11 85 5.12.11 85 5.12.12 95 5.12.12 95 5.12.12 95 5.12.12 95 5.12.12 95 5.12.13	6 Acceptance of conforming quotation (Rev. 13) General - Electric actuators for valves, C11, ref. EQT072 (Rev. 11) 1 Submission for acceptance of purchasing package (Rev. 11) 2 Invitation of quotations for purchasing package (Rev. 11) 3 Acceptance of conforming quotation (Rev. 11) 3 Acceptance of conforming quotation (Rev. 11) 4 Submission for acceptance of purchasing package 2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 14) 1 Submission for acceptance of purchasing package 2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 4 General - LV Switchboards, C9, ref. 04SC013 (Rev. 14) 1 Submission for acceptance of purchasing package 2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 4 General - Submission for acceptance of purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 4 Manufacturing and Factory Acceptance Test of Plant 5 Shipping and Delivery of Plant to LVSB Sub-Contractor	60 days Fri 01/01/21 30 days Tue 02/03/21 30 days Thu 01/04/21 90 days Wed 16/03/22 45 days Tue 14/06/22	Finish Tue 14/12/21 Tue 28/12/21 Sun 13/02/22 Fri 31/12/21 Sun 30/01/22 Sun 13/02/22 Sun 13/02/22 Sun 13/02/22 Sun 13/04/21 Wed 17/02/21 Thu 04/03/21 Sat 03/04/21 Mon 03/05/21 Thu 28/07/22 Fri 30/04/21 Mon 13/06/22 Thu 28/07/22 Fri 07/05/21 Med 07/04/21 Fri 07/05/21 Mon 28/02/22	Wed 15/12/21 Thu 02/12/21 Thu 02/12/21 Sat 01/01/22 Mon 31/01/22 Mon 04/01/21 Thu 18/02/21 Sat 20/03/21 Mon 04/01/21 Fri 05/03/21 Sun 04/04/21 Fri 01/01/21 Tue 02/03/21 Tue 02/03/21 Sun 04/04/21 Fri 01/01/21 Tue 02/03/21 Tue 01/04/21 Wed 16/03/22 Tue 18/06/22 Mon 18/01/21	Tue 28/12/21 Sun 13/02/22 Fri 31/12/21 Sun 30/01/22 Sun 13/02/22 Sun 13/02/22 Sun 18/04/21 Wed 17/02/21 Fri 19/03/21 Thu 04/03/21 Sat 03/04/21 Mon 03/05/21 Thu 28/07/22 Mon 01/03/21 Fri 30/04/21 Mon 13/06/22	Wed 15/12/21 Thu 02/12/21 Thu 02/12/21 Fri 17/06/22 Sun 17/07/22 Mon 04/01/21 Thu 18/02/21 Sat 20/03/21 Mon 04/01/21 Fri 05/03/21 Fri 05/03/21 Fri 01/01/21	Wed 17/02/21 Fri 19/03/21 Sun 18/04/21 Thu 04/03/21 Sat 03/04/21 Mon 03/05/21 Tue 27/12/22 Mon 01/03/21 Wed 31/03/21 Fri 30/04/21	Free Slack Predecessor 0 days 58 0 days 58 0 days 58 0 days 58 0 days 61 0 days 61 0 days 61 0 days 61 0 days 62 0 days 62 0 days 63 0 days 70 152 days 70 0 days 73 0 days 74 0 days 74	rs Successors 59 62 63 289,434,563,686 66 67 661,261 70 71 260,536,407,660 74 75	Resource Names	2220 Haif 1,	,2020 Hell 2, 202	
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745.12.8.2 755.12.8.3 765.12.8.4 775.12.8.5 785.12.9 805.12.9.2 815.12.9 835.12.10 835.12.10 845.12.10 845.12.10 855.12.11 875.12.11 895.12.11 905.12.12 915.12.12 935.12.12 935.12.13 955.12.13	2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 4 Manufacturing and Factory Acceptance Test of Plant 5 Shipping and Delivery of Plant to LVSB Sub-Contractor 6 General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev. 11 Submission for acceptance of purchasing package 2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	30 days Tue 02/03/21 30 days Thu 01/04/21 90 days Wed 16/03/22 45 days Tue 14/06/22 v. 110 days Mon 18/01/21 50 days Mon 18/01/21 30 days Tue 09/03/21 30 days Thu 08/04/21 90 days Wed 01/12/21	Wed 31/03/21 Fri 30/04/21 Mon 13/06/22 Thu 28/07/22 Fri 07/05/21 Mon 08/03/21 Wed 07/04/21 Fri 07/05/21	Tue 02/03/21 Thu 01/04/21 Wed 16/03/22 Tue 14/06/22 Mon 18/01/23 Mon 18/01/23	Wed 31/03/21 Fri 30/04/21 Mon 13/06/22 Thu 28/07/22	Tue 02/03/21 Thu 01/04/21 Mon 15/08/22	Wed 31/03/21 Fri 30/04/21	0 days 73	75				
755.12.8.3 765.12.8.4 775.12.8.5 785.12.9 805.12.9.2 815.12.9.3 825.12.10 835.12.10 835.12.10 845.12.10 855.12.10 855.12.11 875.12.11 895.12.11 905.12.12 915.12.12 935.12.12 935.12.13 955.12.13	3 Acceptance of conforming quotation (Rev. 11, Completed) 4 Manufacturing and Factory Acceptance Test of Plant 5 Shipping and Delivery of Plant to LVSB Sub-Contractor 6 General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev 1 Submission for acceptance of purchasing package 2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	30 days Thu 01/04/21 90 days Wed 16/03/22 45 days Tue 14/06/22 v. 110 days Mon 18/01/21 50 days Mon 18/01/21 30 days Tue 09/03/21 30 days Thu 08/04/21 90 days Wed 01/12/21	Fri 30/04/21 Mon 13/06/22 Thu 28/07/22 Fri 07/05/21 Mon 08/03/21 Wed 07/04/21 Fri 07/05/21	Thu 01/04/21 Wed 16/03/22 Tue 14/06/22 Mon 18/01/21 Mon 18/01/21	Fri 30/04/21 Mon 13/06/22 Thu 28/07/22	Thu 01/04/21 2 Mon 15/08/22	Fri 30/04/21						
765.12.8.4 775.12.8.5 785.12.9 805.12.9,2 815.12.9,3 825.12.10 835.12.10 845.12.10 845.12.10 865.12.11 875.12.11 895.12.11 905.12.12 915.12.12 935.12.12 935.12.13 955.12.13	4 Manufacturing and Factory Acceptance Test of Plant 5 Shipping and Delivery of Plant to LVSB Sub-Contractor 6 General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev 1 Submission for acceptance of purchasing package 2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	90 days Wed 16/03/22 45 days Tue 14/06/22 v. 110 days Mon 18/01/21 50 days Mon 18/01/21 30 days Tue 09/03/21 30 days Thu 08/04/21 90 days Wed 01/12/21	Mon 13/06/22 Thu 28/07/22 Fri 07/05/21 Mon 08/03/21 Wed 07/04/21 Fri 07/05/21	Wed 16/03/22 Tue 14/06/22 Mon 18/01/21 Mon 18/01/21	Mon 13/06/22 Thu 28/07/22	2 Mon 15/08/22		0 days 74	250 405 534 553				
775.12.8.5 785.12.9 795.12.9.1 805.12.9.2 815.12.9.3 825.12.10 835.12.10 845.12.10 865.12.11 875.12.11 895.12.11 905.12.12 915.12.12 935.12.12 945.12.13 955.12.13	5 Shipping and Delivery of Plant to LVSB Sub-Contractor General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev. 1 Submission for acceptance of purchasing package 2 Invitation of quotations for purchasing package 3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	45 days Tue 14/06/22 v. 110 days Mon 18/01/21 50 days Mon 18/01/21 30 days Tue 09/03/21 30 days Tue 08/04/21 90 days Wed 01/12/21	Thu 28/07/22 Fri 07/05/21 Mon 08/03/21 Wed 07/04/21 Fri 07/05/21	Tue 14/06/22 Mon 18/01/2 Mon 18/01/21	Thu 28/07/22		Sat 12/11/22		258,405,534,657				× ×
785.12.9 795.12.9.1 805.12.9.2 815.12.9.3 825.12.10 845.12.10 845.12.10 865.12.11 875.12.11 895.12.11 905.12.12 915.12.12 935.12.12 945.12.13 955.12.13	General - 11kV/380V Stepdown Power Transformers, C11, EQT032 (Rev. 1.1 Submission for acceptance of purchasing package 2.2 Invitation of quotations for purchasing package 3.3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	v. 110 days Mon 18/01/21 50 days Mon 18/01/21 30 days Tue 09/03/21 30 days Thu 08/04/21 90 days Wed 01/12/21	Fri 07/05/21 Mon 08/03/21 Wed 07/04/21 Fri 07/05/21	Mon 18/01/2: Mon 18/01/21		Sun 13/11/22		0 days 258,405,	53477				
795.12.9.1 805.12.9.2 815.12.9.3 825.12.10 835.12.10 845.12.10 865.12.11 875.12.11 885.12.11 895.12.11 905.12.12 915.12.12 935.12.12 945.12.13 955.12.13	.1 Submission for acceptance of purchasing package .2 Invitation of quotations for purchasing package .3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	50 days Mon 18/01/21 30 days Tue 09/03/21 30 days Thu 08/04/21 90 days Wed 01/12/21	Mon 08/03/21 Wed 07/04/21 Fri 07/05/21	Mon 18/01/21	Fri 07/05/21		Tue 27/12/22	0 days 76	29655-90 edays				
795.12.9.1 805.12.9.2 815.12.9.3 825.12.10 835.12.10 845.12.10 865.12.11 875.12.11 885.12.11 895.12.11 905.12.12 915.12.12 935.12.12 945.12.13 955.12.13	.1 Submission for acceptance of purchasing package .2 Invitation of quotations for purchasing package .3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	50 days Mon 18/01/21 30 days Tue 09/03/21 30 days Thu 08/04/21 90 days Wed 01/12/21	Wed 07/04/21 Fri 07/05/21			Mon 18/01/21	Fri 07/05/21	0 days					
805.12.9.2 815.12.9.3 825.12.10 835.12.10 845.12.10 865.12.11 875.12.11 885.12.11 885.12.11 895.12.12 915.12.12 915.12.12 935.12.12 945.12.13 955.12.13	.2 Invitation of quotations for purchasing package .3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	30 days Tue 09/03/21 30 days Thu 08/04/21 90 days Wed 01/12/21	Wed 07/04/21 Fri 07/05/21	Tue 09/03/21	Mon 08/03/21	Mon 18/01/21	Mon 08/03/21	0 days	80				
81 5.12.93 82 5.12.10 83 5.12.10 84 5.12.10 85 5.12.10 86 5.12.11 87 5.12.11 88 5.12.11 89 5.12.12 91 5.12.12 93 5.12.12 94 5.12.13 95 5.12.13 96 5.12.13	.3 Acceptance of conforming quotation (Rev. 11, Completed) 0 General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	30 days Thu 08/04/21 90 days Wed 01/12/21	Fri 07/05/21		Wed 07/04/21	L Tue 09/03/21	Wed 07/04/21	0 days 79	81				+
82 5.12.10 83 5.12.10 84 5.12.10 85 5.12.10 86 5.12.11 87 5.12.11 88 5.12.11 89 5.12.12 91 5.12.12 91 5.12.12 93 5.12.12 94 5.12.13 95 5.12.13	O General - UPS, C11, EQT039A (Rev. 14) 0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	90 days Wed 01/12/21		Thu 08/04/21	Fri 07/05/21	Thu 08/04/21	Fri 07/05/21	0 days 80	258,657				2
835.12.10 845.12.10 855.12.11 875.12.11 885.12.11 885.12.11 895.12.12 915.12.12 915.12.12 935.12.12 945.12.13 955.12.13	0.1 Submission for acceptance of purchasing package (Rev. 13) 0.2 Invitation of quotations for purchasing package (Rev. 13)	a his sector and the sector of				2 Wed 01/12/21							
84 5.12.10 85 5.12.10 86 5.12.11 87 5.12.11 88 5.12.11 90 5.12.12 91 5.12.12 93 5.12.12 94 5.12.13 95 5.12.13 96 5.12.13	0.2 Invitation of quotations for purchasing package (Rev. 13)	30 days Web 01/12/21	Thu 30/12/21				Thu 30/12/21	0 days	84				
85 5.12.10 86 5.12.11 87 5.12.11 88 5.12.11 89 5.12.12 91 5.12.12 93 5.12.12 93 5.12.12 94 5.12.13 95 5.12.13		20 1 5:21/22/21					Sat 29/01/22		85				
865.12.11 875.12.11 885.12.11 905.12.12 915.12.12 935.12.12 935.12.12 945.12.13 955.12.13	0.3 Acceptance of conforming quotation (Rev. 13)	30 days Fri 31/12/21	Sat 29/01/22		Sat 29/01/22			0 days 83					
875.12.11 885.12.11 895.12.11 905.12.12 915.12.12 925.12.12 935.12.12 945.12.13 955.12.13		30 days Sun 30/01/22	Mon 28/02/22			2 Sun 30/01/22	Mon 28/02/22	0 days 84	258,405,534,657				
885.12.11 895.12.12 905.12.12 915.12.12 935.12.12 935.12.12 945.12.13 955.12.13	1 General - HV Cables, C11, EQT041 (Rev. 13)	65 days Wed 01/12/21	Thu 03/02/22			Wed 01/12/21							
89 5.12.11 90 5.12.12 91 5.12.12 92 5.12.12 93 5.12.12 94 5.12.13 95 5.12.13	1.1 Submission for acceptance of purchasing package	14 days Wed 01/12/21	Tue 14/12/21			Wed 01/12/21		0 days	88				
905.12.12 915.12.12 925.12.12 935.12.12 945.12.13 955.12.13 965.12.13	1.2 Invitation of quotations for purchasing package	21 days Wed 15/12/21	Tue 04/01/22	Wed 15/12/2	Tue 04/01/22	Sun 09/01/22	Sat 29/01/22	0 days 87	89				
915.12.12 925.12.12 935.12.12 945.12.13 955.12.13 965.12.13	1.3 Acceptance of conforming quotation	30 days Wed 05/01/22	Thu 03/02/22	Wed 05/01/22	Thu 03/02/22	Sun 30/01/22	Mon 28/02/22	0 days 88	258,657				
92 5.12.12 93 5.12.12 94 5.12.13 95 5.12.13 96 5.12.13	2 General - LV Cables, C11, EQT042 (Rev. 13)	65 days Wed 01/12/21	Thu 03/02/22	Wed 01/12/2	L Thu 03/02/22	Wed 01/12/21	Mon 28/02/22	25 days					
93 5.12.12 94 5.12.13 95 5.12.13 96 5.12.13	2.1 Submission for acceptance of purchasing package	14 days Wed 01/12/21	Tue 14/12/21	Wed 01/12/2	Tue 14/12/21	Wed 01/12/21	Tue 14/12/21	0 days	92				
945.12.13 955.12.13 965.12.13	2.2 Invitation of quotations for purchasing package	21 days Wed 15/12/21	Tue 04/01/22	Wed 15/12/2	Tue 04/01/22	Sun 09/01/22	Sat 29/01/22	0 days 91	93				
95 5.12.13 96 5.12.13	2.3 Acceptance of conforming quotation	30 days Wed 05/01/22	Thu 03/02/22	Wed 05/01/2	2 Thu 03/02/22	Sun 30/01/22	Mon 28/02/22	0 days 92	258,405,534,657				
965.12.13	General - Gas Detection System, C11, EQT051 (Rev. 16)	65 days Wed 01/12/21	Thu 03/02/22	Wed 01/12/2	1 Thu 03/02/22	Wed 01/12/21	Thu 03/02/22	0 days					
965.12.13	3.1 Submission for acceptance of purchasing package	14 days Wed 01/12/21	Tue 14/12/21	Wed 01/12/2	Tue 14/12/21	Wed 01/12/21	Tue 14/12/21	0 days	96				
		21 days Wed 15/12/21	Tue 04/01/22	Wed 15/12/2	Tue 04/01/22	Wed 15/12/21	Tue 04/01/22	0 days 95	97				
JI J. 12.12.1		30 days Wed 05/01/22	Thu 03/02/22	Wed 05/01/2	2 Thu 03/02/22	Wed 05/01/22	Thu 03/02/22	0 days 96	258,405,534,657				
985.13	Part B: Subletting of major sub-contract works	761 days Wed 01/01/20	Sun 30/01/22			Wed 01/01/20		0 days 2,30					
		0 days Thu 12/08/21	Thu 12/08/21			Thu 12/08/21		0 days 255+620	day			A	
995.13.1		150 days Wed 01/01/20			0 Fri 29/05/20								
100 5.13.2			Fri 29/05/20					0 days	102			_	
101 5.13.2.			Sun 01/03/20		Sun 01/03/20			0 edays				ł	
102 5.13.2.		14 edays Sun 01/03/20	Sun 15/03/20		Sun 15/03/20		Sun 15/03/20	0 edays 101	103			-	
103 5.13.2.		7 days Sun 15/03/20	Sat 21/03/20	Sun 15/03/20			Sat 21/03/20	0 days 102				•	
104 5.13.2.	2.4 Actual Date for engagement with an independent BEAM Plus Consulta	tar 0 days Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	Fri 29/05/20	0 days				• 29/05	
105 5.13.3	General - Conduction of Pump sump physical model test 045C015	575 days Fri 15/05/20	Fri 10/12/21	Fri 15/05/20	Fri 10/12/21	Fri 15/05/20	Fri 10/12/21	0 days					
106 5.13.3.	3.1 Submission for acceptance of proposed hydraulic laboratory to condu	uc 7 edays Fri 15/05/20	Fri 22/05/20	Fri 15/05/20	Fri 22/05/20	Fri 15/05/20	Fri 22/05/20	0 edays	107			1	
107 5.13.3.	3.2 Invitation to quotations for provision of service	7 edays Fri 22/05/20	Fri 29/05/20	Fri 22/05/20	Fri 29/05/20	Fri 22/05/20	Fri 29/05/20	0 edays 106	108			1	
108 5.13.3.	3.3 Acceptance of proposed hydraulic laboratory	6 days Fri 29/05/20	Wed 03/06/20	Fri 29/05/20	Wed 03/06/20	0 Fri 29/05/20	Wed 03/06/20	0 days 107	109			1	
109 5.13.3.	3.4 Commencement of detailed proposal and conduction of test (Rev 13)) 480 days Thu 04/06/20	Sun 26/09/21	Thu 04/06/20	Sun 26/09/21	Thu 04/06/20	Sun 26/09/21	0 days 108	110			*	
110 5.13.3.		75 days Mon 27/09/21	Fri 10/12/21	Mon 27/09/2	1 Fri 10/12/21	Mon 27/09/21	Fri 10/12/21	0 days 109					
111 5.13.4		127 days Wed 11/03/20	Wed 15/07/20			0 Wed 11/03/20							
1125.13.4			Tue 09/06/20			Wed 11/03/20		0 edays	113	and the second		۲	
		1 eday Wed 24/06/20	Thu 25/06/20			Wed 24/06/20		0 edays 112	114			+	
113 5.13.4.									114			±.	
114 5.13.4.		21 days Thu 25/06/20	Wed 15/07/20			0 Thu 25/06/20	Wed 15/07/20					• 15/0	07
115 5.13.4		0 days Wed 15/07/20	Wed 15/07/20			0 Wed 15/07/20		and prover the second second second second				•	
116 5.13.5	4.4 Actual Date for engagement with an ICE (Completed)	81 days Fri 01/05/20	Tue 21/07/20	Fri 01/05/20	Tue 21/07/20) Fri 01/05/20	Tue 21/07/20	0 days					1

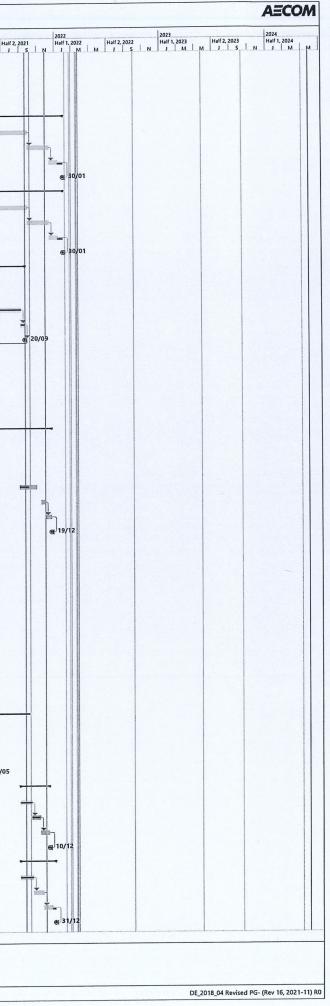
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								Polishing Plant - M					
ID	WBS	Task Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Pre	decessors Si	uccessors	Resource Names	2020 2021 Half 1, 2020 Half 2, 2020 Half 1, 21
,	117 5.13.5.1	Submission for acceptance of subcontract works package	30 edays Fri 01/05/20	Sun 31/05/20	Fri 01/05/20	Sun 31/05/20	Fri 01/05/20	Sun 31/05/20	0 edays	1	.18		
	118 5.13.5.2	Invitation of tender for subcontract works	21 edays Sun 31/05/20	Sun 21/06/20	Sun 31/05/20	Sun 21/06/20	Sun 31/05/20	Sun 21/06/20	0 edays 11	7 1	.19		±,
	119 5.13.5.3	Acceptance of conforming tender	30 edays Sun 21/06/20	Tue 21/07/20	Sun 21/06/20	Tue 21/07/20	Sun 21/06/20	Tue 21/07/20	0 edays 11	B 1	.20	a land a second and a second and a second as a	÷
	120 5.13.5.4	Sub-contract work commencement date (Completed)	0 days Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	Tue 21/07/20	0 days 11		62,408,537,662,1054		21/07
-	121 5.13.6	General - Mechanical Installations	244 days Tue 01/06/21	Sun 30/01/22		Sun 30/01/22		Sun 30/01/22	0 days				
1		Submission for acceptance of subcontract works package	120 days Tue 01/06/21	Tue 28/09/21		Tue 28/09/21		Sun 17/10/21	0 days	1	.23		
	122 5.13.6.1	·	75 days Wed 29/09/21	Sun 12/12/21		Sun 12/12/21			0 days 12		.24		
1	123 5.13.6.2	Invitation of tender for subcontract works				Tue 11/01/22		Sun 30/01/22	19 days 12		.25FF		and construction of
	124 5.13.6.3	Acceptance of conforming tender	30 days Mon 13/12/21	Tue 11/01/22							.2311		
1	125 5.13.6.4	Sub-contract work commencement date	1 day Sun 30/01/22	Sun 30/01/22		Sun 30/01/22		Sun 30/01/22	0 days 124	4FF			
	126 5.13.7	General - Electrical Installations	244 days Tue 01/06/21	Sun 30/01/22		Sun 30/01/22		Sun 30/01/22	0 days				
	127 5.13.7.1	Submission for acceptance of subcontract works package	120 edays Tue 01/06/21	Wed 29/09/21		Wed 29/09/21		Sun 17/10/21	0 edays		128		
	128 5.13.7.2	Invitation of tender for subcontract works	75 edays Wed 29/09/21	Mon 13/12/21	Wed 29/09/21	Mon 13/12/21	Sun 17/10/21	Fri 31/12/21	0 edays 12		129		
	129 5.13.7.3	Acceptance of conforming tender	30 edays Mon 13/12/21	Wed 12/01/22	Mon 13/12/21	Wed 12/01/22	Fri 31/12/21	Sun 30/01/22	18.38 edays 12	8 1	I30FF		
1	130 5.13.7.4	Sub-contract work commencement date	1 day Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	Sun 30/01/22	0 days 12	9FF			
	131 5.13.8	General - Facility Computerized Systems (SCADA, CMMS, PMS, IDMS) (Rev. 13) 04SC018	384 days Tue 01/09/20	Mon 20/09/21	Tue 01/09/20	Mon 20/09/21	L Tue 01/09/20	Mon 20/09/21	0 days				
-	132 5.13.8.1	Submission for acceptance of subcontract works package	60 edays Tue 01/09/20	Sat 31/10/20	Tue 01/09/20	Sat 31/10/20	Tue 01/09/20	Sat 31/10/20	0 edays	1	133		
1	133 5.13.8.2	Invitation of tender for subcontract works	310 edays Sat 31/10/20	Mon 06/09/21	Sat 31/10/20		Sat 31/10/20	Mon 06/09/21	0 edays 13		134		
-	134 5.13.8.3	Acceptance of conforming tender (Completed)	14 edays Mon 06/09/21	Mon 20/09/21		1 Mon 20/09/21			0 edays 13		135		
	134 5.13.8.3	Sub-contract work commencement date	0 days Mon 20/09/21	Mon 20/09/21				Mon 20/09/21	0 days 13		194		
			130 days Mon 02/11/20	Fri 12/03/21		0 Fri 12/03/21		Wed 21/04/21	41 days				
	136 5.13.9	General - Building Services Installations	130 days Mon 02/11/20 60 edays Mon 02/11/20	Fri 01/01/21		0 Fri 01/01/21		Sat 20/02/21	0 edays		138		
	137 5.13.9.1	Submission for acceptance of subcontract works package (Rev. 15)									139		
	138 5.13.9.2	Invitation of tender for subcontract works	30 edays Fri 01/01/21	Sun 31/01/21	Fri 01/01/21		Sat 20/02/21	Mon 22/03/21	0 edays 13				
	139 5.13.9.3	Acceptance of conforming tender	30 edays Sun 31/01/21	Tue 02/03/21				Wed 21/04/21	10 edays 13		140FF		
	140 5.13.9.4	Sub-contract work commencement date	0 days Fri 12/03/21	Fri 12/03/21		Fri 12/03/21		Wed 21/04/21	0 days 13	9FF 2	259,406,535,659,806,88	IE	
	141 5.13.10	General - Mechanical Ventilation and Air Conditioning Installation (Re 13) (04SC020)	v. 413 days Mon 02/11/20	Sun 19/12/21	Mon 02/11/2	0 Sun 19/12/21	Mon 02/11/20	Sun 19/12/21	0 days				
1	142 5.13.10.1	Submission for acceptance of subcontract works package	60 days Mon 02/11/20	Thu 31/12/20	Mon 02/11/2	0 Thu 31/12/20	Mon 02/11/20	Thu 31/12/20	0 days	1	143		
1	143 5.13.10.2	Invitation of tender for subcontract works	30 edays Thu 31/12/20	Sat 30/01/21	Thu 31/12/20	Sat 30/01/21	Thu 31/12/20	Sat 30/01/21	0 edays 14	2			
	144 5.13.10.3		v. 60 days Wed 01/09/21	Sat 30/10/21	Wed 01/09/2	1 Sat 30/10/21	Wed 01/09/21	Sat 30/10/21	0 days				
-	145 5.13.10.5		14 days Mon 15/11/21	Sun 28/11/21		1 Sun 28/11/21			0 days	1	146		
-	146 5.13.10.5		21 days Mon 29/11/21	Sun 19/12/21	Mon 29/11/2	1 Sun 19/12/21	Mon 29/11/21	Sun 19/12/21	0 days 14	5 1	147FF		
	147 5.13.10.6		0 days Sun 19/12/21	Sun 19/12/21	Sun 19/12/21	Sun 19/12/21	Sun 19/12/21	Sun 19/12/21	0 days 14				
-		General - Emergency Power Generator Set (045C006)	146 days Wed 01/07/20	Mon 23/11/20				Mon 23/11/20					
1	148 5.13.11		60 edays Wed 01/07/20	Sun 30/08/20		0 Sun 30/08/20			0 edays		150		
	149 5.13.11.1							Tue 29/09/20	0 edays 14		151		
	150 5.13.11.2		30 edays Sun 30/08/20	Tue 29/09/20									
	151 5.13.11.3		30 edays Tue 29/09/20	Thu 29/10/20	Tue 29/09/20			Thu 29/10/20	0 edays 15		152FF		
	152 5.13.11.4		24 days Sat 31/10/20	Mon 23/11/20			0 Sat 31/10/20	Mon 23/11/20		166			
	153 5.13.12	General - Plumbing Installation (Rev. 5) (04SC021)	231 days Wed 01/07/20	Tue 16/02/21) Thu 17/06/21	120 days	1			II T
	154 5.13.12.1		30 edays Wed 01/07/20	Fri 31/07/20		0 Fri 31/07/20			0 edays		155		
1	155 5.13.12.2	2 Invitation of tender for subcontract works	75 edays Fri 31/07/20	Wed 14/10/20		Wed 14/10/20		Wed 14/10/20			156		
1	156 5.13.12.3	8 Retender of subcontract works (Rev. 5)	14 days Mon 04/01/21	Sun 17/01/21	Mon 04/01/2	1 Sun 17/01/21	Mon 04/01/22	Sun 17/01/21	0 days 15		157		
1	157 5.13.12.4	4 Acceptance of conforming tender (Completed)	30 edays Sun 17/01/21	Tue 16/02/21	Sun 17/01/21	Tue 16/02/21	Sun 17/01/21	Tue 16/02/21	0 edays 15	6 1	158FF		
1	158 5.13.12.5	5 Sub-contract work commencement date (Extended)	0 days Tue 16/02/21	Tue 16/02/21	Tue 16/02/21	Tue 16/02/21	Thu 17/06/21	Thu 17/06/21	0 days 15	7FF 1	1245		e
1	159 5.13.13	General - Fire Services Installation (Rev. 5) (04SC019)	120 days Mon 04/01/21	Mon 03/05/21	Mon 04/01/2	1 Mon 03/05/2	1 Mon 04/01/2	L Sun 03/10/21	153 days				
1	160 5.13.13.1	1 Submission for acceptance of subcontract works package	60 days Mon 04/01/21	Thu 04/03/21	Mon 04/01/2	1 Thu 04/03/21	Mon 04/01/2	Thu 04/03/21	0 days	1	161		
-	161 5.13.13.3		30 days Fri 05/03/21	Sat 03/04/21	Fri 05/03/21	Sat 03/04/21	Fri 05/03/21	Sat 03/04/21	0 days 16	0 1	162		
-	162 5.13.13.3		30 days Sun 04/04/21	Mon 03/05/21	Sun 04/04/21	Mon 03/05/2	1 Sun 04/04/21	Mon 03/05/21	0 days 16	1 1	163FF		
-	163 5.13.13.4		0 days Mon 03/05/21	Mon 03/05/21	Mon 03/05/2	1 Mon 03/05/2	1 Sun 03/10/21	Sun 03/10/21	0 days 16	2FF 1	1196		
-	164 5.13.14	General - Lightning Protection System (Rev. 15) (045C017)	100 days Wed 01/09/21	Fri 10/12/21		21 Fri 10/12/21			0 days				
-	165 5.13.14		40 edays Wed 01/09/21	Mon 11/10/21				Mon 11/10/21			166		
-			30 edays Mon 11/10/21	Wed 10/11/21				Wed 10/11/21			167		
	166 5.13.14.					1 Fri 10/12/21					168FF		
_	167 5.13.14.		30 edays Wed 10/11/21	Fri 10/12/21					0 edays 16		7001 I		
	168 5.13.14.		0 days Fri 10/12/21	Fri 10/12/21		Fri 10/12/21		Fri 10/12/21	0 days 16	111			
	169 5.13.15	General - CCTV Installation (Rev. 13) (04SC016)	121 days Wed 01/09/21	Fri 31/12/21		21 Fri 31/12/21		1 Fri 31/12/21	0 days				
-	170 5.13.15.	1 Submission for acceptance of subcontract works package	45 edays Wed 01/09/21	Sat 16/10/21	Wed 01/09/2	1 Sat 16/10/21	Wed 01/09/2	Wed 27/10/21	0 edays		171		
	171 5.13.15.	2 Invitation of tender for subcontract works	35 edays Sat 16/10/21	Sat 20/11/21	Sat 16/10/21	Sat 20/11/21	Wed 27/10/2	Wed 01/12/21	0 edays 17	0 1	172		
	172 5.13.15.	3 Acceptance of conforming tender	30 edays Sat 20/11/21	Mon 20/12/21	Sat 20/11/21	Mon 20/12/2	1 Wed 01/12/2	Fri 31/12/21	11 edays 17	1 1	173FF		
-	173 5.13.15.	4 Sub-contract work commencement date	0 days Fri 31/12/21	Fri 31/12/21	Fri 31/12/21	Fri 31/12/21	Fri 31/12/21	Fri 31/12/21	0 days 17	2FF			

Bestwise Project: DE/2018/04 Date: 30/11/21 Milestone, Tentative @ Critica Slack (Float) Slack 1 Progress

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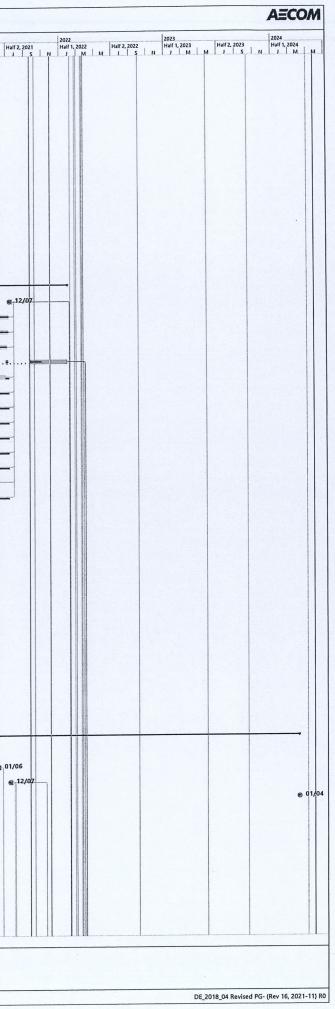


-		epartment					Shek	Wu Hui Effluent F	Polishing Plant - M	ain Works Stage	1 E&M W	lorks for Sewage Treatmen	t Facilities				
ID	WBS Ta	ssk Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack P	redecessors	s Successors	Resource Names	2020 Half 1, 2020	Half 2, 2020		21 If 1, 202
-		a station of the stat		Wed 01/07/20	Mon 10/08/20	Wed 01/07/20	Mon 10/08/20	Wed 01/07/20	Mon 10/08/20	0 days							
1	1745.13.16	General - Civil Construction Work for underground pipework (04SC005)	· · · · · · · · · · · · · · · · · · ·		Tue 14/07/20			Wed 01/07/20		0 days		176			-		
-	175 5.13.16.1	Submission for acceptance of subcontract works package		Wed 01/07/20							75	177			-		
	176 5.13.16.2	Invitation of tender for subcontract works		Wed 15/07/20	Tue 28/07/20			Wed 15/07/20		0 days 1		178FF					
	177 5.13.16.3	Acceptance of conforming tender		Wed 29/07/20	Tue 04/08/20			Wed 29/07/20		0 days 1		170FF			e 10/0	8	
	1785.13.16.4	Sub-contract work commencement date (Completed)		Mon 10/08/20	Mon 10/08/20		Mon 10/08/20		Mon 10/08/20	0 days 1	.//FF			14(1)11(1)-24(1)14(1)14			
	179 5.13.17	General - Civil Construction Work for Temp. Filtrate Eq. System (04SC00)		Wed 01/07/20	Mon 10/08/20			Wed 01/07/20		0 days							
	180 5.13.17.1	Submission for acceptance of subcontract works package		Wed 01/07/20	Tue 14/07/20			Wed 01/07/20		0 days		181			- <u>]</u>		
	181 5.13.17.2	Invitation of tender for subcontract works	14 days	Wed 15/07/20	Tue 28/07/20		1	Wed 15/07/20		0 days 1		182			-]		
	182 5.13.17.3	Acceptance of conforming tender	7 days	Wed 29/07/20	Tue 04/08/20	Wed 29/07/20	Tue 04/08/20	Wed 29/07/20	Tue 04/08/20	0 days 1	.81	183FF					
-	183 5.13.17.4	Sub-contract work commencement date (Completed)	0 days	Mon 10/08/20	Mon 10/08/20	Mon 10/08/20	Mon 10/08/20	Mon 10/08/20	Mon 10/08/20	0 days 1	.82FF				@ IU/U		
	184 5.13.18	Mis - Modification of existing power house (04SC010)	109 days	Mon 24/02/20	Fri 12/06/20	Mon 24/02/20	Fri 12/06/20	Mon 24/02/20	Fri 12/06/20	0 days					•		
	185 5.13.18.1	Submission for acceptance of subcontract works package	90 days	Mon 24/02/20	Sat 23/05/20	Mon 24/02/20	Sat 23/05/20	Mon 24/02/20	Sat 23/05/20	0 days		186					
	186 5.13.18.2	Invitation of tender for subcontract works	14 days	Sun 24/05/20	Sat 06/06/20	Sun 24/05/20	Sat 06/06/20	Sun 24/05/20	Sat 06/06/20	0 days 1	.85	187			1 11		
	187 5.13.18.3	Acceptance of conforming tender	1 day	Sun 07/06/20	Sun 07/06/20	Sun 07/06/20	Sun 07/06/20	Sun 07/06/20	Sun 07/06/20	0 days 1	.86	188FF			5		
1	1885.13.18.4	Sub-contract work commencement date (Completed)	0 days	Fri 12/06/20	Fri 12/06/20	Fri 12/06/20	Fri 12/05/20	Fri 12/06/20	Fri 12/06/20	0 days 1	87FF	1167			C 12/06		
1	189 5.14	Part C: General Design Submissions	788 days	Mon 02/12/19	Thu 27/01/22	Mon 02/12/19	Thu 27/01/22	Mon 02/12/19	Thu 27/01/22	0 days					+ +++		T
1	190 5.14.1	Planned Sectional Completion Date - Section 1	0 days	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	0 days 1	91FF,192	FL .					
	191 5.14.2	CDS001 - General Design Parameters (Rev. 11)	400 edays	Frì 05/06/20	Sat 10/07/21	Fri 05/06/20	Sat 10/07/21	Fri 05/06/20	Sat 10/07/21	0 edays		190FF			+-++		-
	192 5.14.3	CDS020 - Electrical Installation Typical Details	355 edays	Mon 20/07/20	Sat 10/07/21	Mon 20/07/20	Sat 10/07/21	Mon 20/07/20	Sat 10/07/21	0 edays		190FF					-
	193 5.14.4	CDS009 - Detailed Design for Plant Service Water System	125 edays	Mon 01/03/21	Sun 04/07/21	Mon 01/03/21	Sun 04/07/21	Mon 01/03/21	Sun 04/07/21	0 edays		190FF					
	194 5.14.5	CDS012 - Detailed Design for SCADA System		Sat 09/01/21	Thu 27/01/22	Sat 09/01/21	Thu 27/01/22	Sat 09/01/21	Thu 27/01/22	0 edays 1	135	190FF,258FF,405FF,534	FI			L	æ.
	195 5.14.6	CDS13-1 - Detailed Design for CCTV System		Thu 01/04/21	Wed 30/06/21	Thu 01/04/21	Wed 30/06/21	Thu 01/04/21	Mon 12/07/21	12.38 edays		190FF					
1.		CDS13-2 - Detailed Design for Gas Detection and Monitoring System		Mon 01/03/21	Sun 30/05/21				Mon 12/07/21			190FF					
	1965.14.7			Mon 01/03/21	Sun 30/05/21				Mon 12/07/21			190FF					
	197 5.14.8	CDS14-1 - Detailed Design for Power monitoring system (PMS)			Sun 30/05/21				Mon 12/07/21			190FF					
	1985.14.9	CDS14-2 - Detailed Design for Computerized maintenance and manageme		Mon 01/03/21	Sun 30/05/21				Mon 12/07/21			190FF					
	199 5.14.10	CDS14-3 - Detailed Design for Information and documents management s		Mon 01/03/21								190FF					
	200 5.14.11	CDS031 - Detailed Design for MVAC System		5 Mon 01/03/21	Sun 30/05/21				Mon 12/07/21			190FF					
	201 5.14.12	CDS042 - Detailed Design for Lightning Protection System		5 Mon 11/01/21	Tue 11/05/21				Mon 12/07/21								
	202 5.14.13	Design submissions for E&M installation works of existing sludge thickenin		s Mon 02/12/19	Sun 27/09/20			Mon 02/12/19		0 edays		190FF					
	203 5.14.14	Design Submission for Earthing and Lightning (Rev. 8)	147.38 edays	s Mon 04/01/21	Mon 31/05/21				Mon 12/07/21			190FF					٦
	204 5.15	Works Area WA1-C	374 days	s Wed 01/01/20	Fri 08/01/21) Fri 08/01/21	Wed 01/01/20		0 days				@-21/02			
	205 5.15.1	Actual Access / Handover Date		y Fri 21/02/20	Fri 21/02/20		Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	0 days		209					
	206 5.15.2	Submission for acceptance of subcontract works package (Site Office) (04	60 day:	s Wed 01/01/20	Sat 29/02/20		Sat 29/02/20	Wed 01/01/20			255+30 ed						
	207 5.15.3	Invitation of quotations for subcontract works (Site Office)	21 day:	s Sun 01/03/20	Sat 21/03/20	Sun 01/03/20	Sat 21/03/20	Sun 01/03/20	Sat 21/03/20	0 days 2	206	208					
	208 5.15.4	Acceptance of conforming quotation (Site Office)	10 day:	s Sun 22/03/20	Tue 31/03/20	Sun 22/03/20	Tue 31/03/20	Sun 22/03/20	Tue 31/03/20	0 days 2	207	209					
	209 5.15.5	Design and Fabrication of the Contractor's Site Accommodations	120 day:	s Wed 01/04/20	Wed 29/07/20	Wed 01/04/20	Wed 29/07/20	Wed 01/04/20	Wed 29/07/20	0 days 2	205,208	215			+-		
	210 5.15.6	Submission for acceptance of subcontract works package (Site Office Four	20 day	s Fri 01/05/20	Wed 20/05/20	Fri 01/05/20	Wed 20/05/20	Fri 01/05/20	Wed 20/05/20	0 days		211					
1	211 5.15.7	Invitation of quotations for subcontract works (Site Office Foundation)	18 day	s Thu 21/05/20	Sun 07/06/20	Thu 21/05/20	Sun 07/06/20	Thu 21/05/20	Sun 07/06/20	0 days 2	210	212		2	-		
1	212 5.15.8	Acceptance of conforming quotation (Site foundation)	7 day	s Mon 08/06/20	Sun 14/06/20	Mon 08/06/20	Sun 14/06/20	Mon 08/06/20	Sun 14/06/20	0 days 2	211	213			-		
-	213 5.15.9	Design and Construction of the Contractor's Site Office foundation	30 day.	s Mon 15/06/20	Tue 14/07/20	Mon 15/06/20	Tue 14/07/20	Mon 15/06/20	Tue 14/07/20	0 days 2	212	214			そ 日		
4	214 5.15.10	Construction of Contractor's Site Office foundation (Completed)	47 day.	s Wed 15/07/20	Sun 30/08/20	Wed 15/07/20	Sun 30/08/20	Wed 15/07/20	Sun 30/08/20	0 days 2	213	215		an constants of all	×		
5	215 5.15.11	Site Installation of the Contractor's Site Accommodations (MiC) (Rev. 5)		s Mon 31/08/20	Mon 28/12/20	Mon 31/08/20	Mon 28/12/20	Mon 31/08/20	Mon 28/12/20	0 days 2	209,214	216				1	
_	216 5.15.12	Anticipated date of working at site (Rev. 5) (Completed)		s Tue 05/01/21	Fri 08/01/21	Tue 05/01/21	Fri 08/01/21	Tue 05/01/21	Fri 08/01/21	0 days 2						1	
	216 5.15.12	Works Area WA2-C		y Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	0 days				•			
				y Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	Fri 21/02/20	0 days				⊛ 21/02			
_	218 5.16.1	Actual Access / Handover Date		s Mon 01/06/20	Mon 01/04/24			Mon 01/06/20									
1	219 5.17	Inlet Works No. 1, Portion B-2 (PS 6B.2.1)				Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20		254FF,255	Ff				@ 30/10	
2	220 5.17.1	Planned Key Date Completion Date - KD1A, IW		rs Fri 30/10/20	Fri 30/10/20				Tue 01/06/21								
	221 5.17.2	Planned Key Date Completion Date - KD1B, IW		s Tue 01/06/21	Tue 01/06/21	Tue 01/06/21		Tue 01/06/21		0 days 2		PCT					
	222 5.17.3	Planned Sectional Completion Date - Section 1, IW		s Mon 12/07/21	Mon 12/07/21			Mon 12/07/21			257FF,258						
	223 5.17.4	Planned Sectional Completion Date - Section 2, IW		rs Mon 01/04/24	Mon 01/04/24				Mon 01/04/24								
-	224 5.17.5	Selection of Suppliers for major plant and materials for Inlet Works No.		s Mon 01/06/20	Sat 01/05/21			Mon 01/06/20		0 days							
	225 5.17.5.1	Inlet Works - inlet Pumps (Marking Scheme Approach), C11, ref. EQT006		rs Mon 01/06/20	Mon 28/09/20	Mon 01/06/20			Mon 28/09/20	0 days							
	226 5.17.5.1.1	Submission for acceptance of purchasing package Including proposed marking scheme	60 day	/s Mon 01/06/20	Thu 30/07/20	Mon 01/06/20	Thu 30/07/20	Mon 01/06/20	Thu 30/07/20	0 days		227					
_			20 4-1	ys Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days 2	226	228			Ŧ		
7	227 5.17.5.1.2	Invitation of quotations for purchasing package		rs Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days 2		257			-		
8	228 5.17.5.1.3	Acceptance of conforming quotation (Completed)					Sat 22/08/20	Frl 26/06/20	Sat 22/08/20	0 days 2 0 days							
9	229 5.17.5.2	Inlet Works - mechanical raked bar screens, C11, ref. EQT052	La company and a company	rs Fri 26/06/20	Sat 22/08/20	Fri 26/06/20						231			-		
0	230 5.17.5.2.1	Submission for acceptance of purchasing package		rs Fri 26/06/20	Thu 09/07/20	Fri 26/06/20	Thu 09/07/20	Fri 26/06/20	Thu 09/07/20	0 days		and the second			1		
1	231 5.17.5.2.2	Invitation of quotations for purchasing package	14 day	rs Fri 10/07/20	Thu 23/07/20	Fri 10/07/20	Thu 23/07/20	Fri 10/07/20	Thu 23/07/20	0 days 2	230	232					

Project: DE/2018/04 Date: 30/11/21

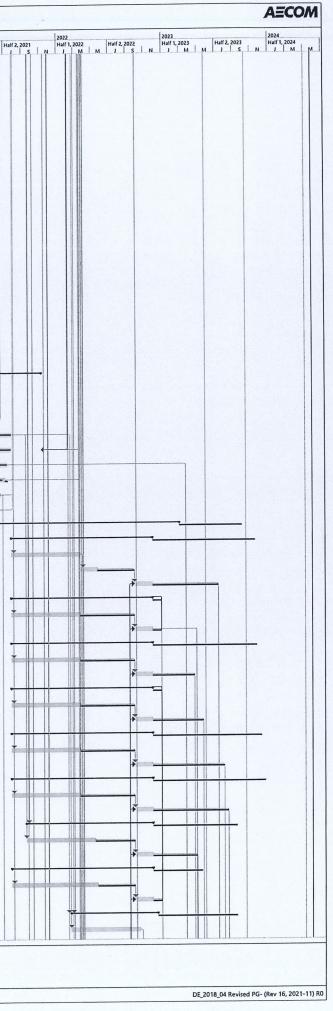
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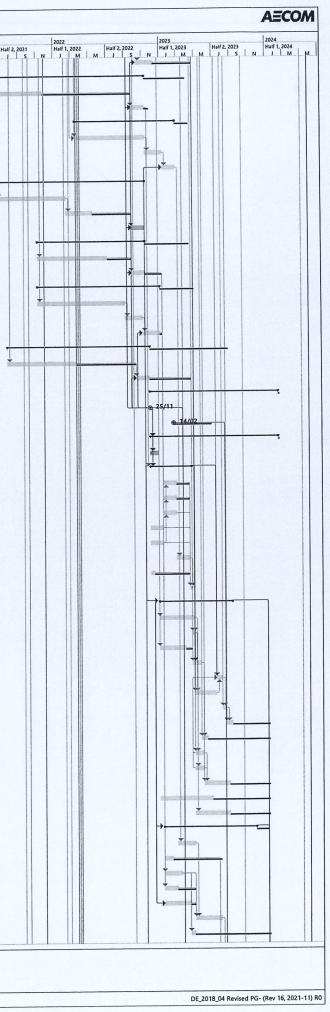


)=		epartment				in the second				E&M Works for Sewage Tre		1		
ID	WBS Ta	sk Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Prec	decessors Successors	Resource Names	2020 Half 1, 2020 N J M M J	2020 H	2021 Half 1, 202
	232 5.17.5.2.3	Acceptance of conforming quotation (Completed)	30 days Fri 24/07/20	Sat 22/08/20	Fri 24/07/20	Sat 22/08/20	Fri 24/07/20	Sat 22/08/20	0 days 231	257				ŤΠ
	233 5.17.5,3	Inlet Works - screening conveyors and Diverters, C11, ref. EQT053	74 days Wed 01/07/20	Sat 12/09/20	Wed 01/07/20	Sat 12/09/20	Wed 01/07/20	Sat 12/09/20	0 days					
	234 5.17.5.3.1	Submission for acceptance of purchasing package	30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	O days	235		·····		
	235 5.17.5.3.2	Invitation of quotations for purchasing package	14 days Fri 31/07/20	Thu 13/08/20	Frl 31/07/20	Thu 13/08/20	Fri 31/07/20	Thu 13/08/20	0 days 234	236		± ±		
-	236 5,17.5.3.3	Acceptance of conforming quotation (Completed)	30 days Fri 14/08/20	Sat 12/09/20	Fri 14/08/20	Sat 12/09/20	Fri 14/08/20	Sat 12/09/20	0 days 235	257				
	237 5.17.5.4	Inlet Works - screening screw type compactors, C11, ref. EQT003	105 days Wed 01/07/20	Tue 13/10/20	Wed 01/07/20	Tue 13/10/20	Wed 01/07/20	Tue 13/10/20	0 days					
	238 5.17.5.4.1	Submission for acceptance of purchasing package	45 days Wed 01/07/20	Fri 14/08/20	Wed 01/07/20	Fri 14/08/20	Wed 01/07/20	Fri 14/08/20	0 days	239				
1	239 5.17.5.4.2	Invitation of quotations for purchasing package	30 days Sat 15/08/20	Sun 13/09/20	Sat 15/08/20	Sun 13/09/20	Sat 15/08/20	Sun 13/09/20	0 days 238	240				
	240 5.17.5.4.3	Acceptance of conforming quotation (Completed)	30 days Mon 14/09/20	Tue 13/10/20	Mon 14/09/20	Tue 13/10/20	Mon 14/09/20	Tue 13/10/20	0 days 239	257				
	241 5.17.5.5	Inlet Works - grit removal system, C11, ref. EQT004	90 days Wed 01/07/20	Mon 28/09/20	Wed 01/07/20	Mon 28/09/20	Wed 01/07/20	Mon 28/09/20	0 days					
	242 5.17.5.5.1	Submission for acceptance of purchasing package	30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	0 days	243				
	243 5.17.5.5.2	Invitation of quotations for purchasing package	30 days Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days 242	244		±		
	244 5.17.5.5.3	Acceptance of conforming quotation (Completed)	30 days Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days 243	257			+	
	245 5.17.5.6	Inlet Works - grit classifiers, C11, ref. EQT005	90 days Wed 01/07/20	Mon 28/09/20	Wed 01/07/20			Mon 28/09/20	0 days				$\left - \right $	
		Submission for acceptance of purchasing package	30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20		Wed 01/07/20	Thu 30/07/20	0 days	247				
	246 5.17.5.6.1		30 days Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	0 days 246			×		
	247 5.17.5.6.2	Invitation of quotations for purchasing package	30 days Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20		Mon 28/09/20	0 days 247			a determine	-	
	248 5.17.5.6.3	Acceptance of conforming quotation (Completed)				Sat 01/05/21		Sat 01/05/21	0 days					
	249 5.17.5.7	Inlet Works - Fixed Bar Screen, C11, ref. EQT046 (Rev. 10)	310 days Fri 26/06/20	Sat 01/05/21	Fri 26/06/20					251				
	250 5.17.5.7.1	Submission for acceptance of purchasing package	14 days Fri 26/06/20	Thu 09/07/20	Fri 26/06/20	Thu 09/07/20		Thu 09/07/20	0 days					
	251 5.17.5.7.2	Invitation of quotations for purchasing package	266 days Fri 10/07/20	Thu 01/04/21	Fri 10/07/20	Thu 01/04/21		Thu 01/04/21	0 days 250					T
	252 5.17.5.7.3	Acceptance of conforming quotation (Rev. 10)	30 days Fri 02/04/21	Sat 01/05/21	Fri 02/04/21	Sat 01/05/21		Sat 01/05/21	0 days 251	1 257				4
	253 5.17.6	Design Submissions for IW	479 days Wed 15/07/20	Sat 06/11/21			Wed 15/07/20		0 days					
	254 5.17.6.1	Electrical schematic drawings for Inlet Works No. 1	90 days Wed 15/07/20	Mon 12/10/20			0 Wed 15/07/20		0 days	220FF				
-	255 5.17.6.2	CDS080-1 - Civil and dimensional requirements drawings for Inlet Works No.	1 45 days Tue 01/09/20	Thu 15/10/20	Tue 01/09/20	Thu 15/10/20	Tue 01/09/20	Thu 15/10/20	0 days	220FF			П	
	256 5.17.6.3	CDS081-1 - Civil and dimensional requirements drawings for Inlet We	ork 210 days Fri 28/08/20	Thu 25/03/21	Fri 28/08/20	Thu 25/03/21	Fri 28/08/20	Thu 25/03/21	0 days	221FF			TT .	
	257 5.17.6.4	CDS002 - Detailed Design for Inlet Works No. 1	144 edays Mon 01/03/21	Fri 23/07/21	Mon 01/03/2	1 Fri 23/07/21	Mon 01/03/21	Fri 23/07/21	0 edays 232	2,236,228265,287,272,275	,278,281			1
	258 5.17.6.5	CDS021 - Detailed Design for Electrical Installations for Inlet Works N	lo. 166.63 edays Sun 23/05/21	Sat 06/11/21	Sun 23/05/21	Sat 06/11/21	Sun 23/05/21	Sat 06/11/21	0 edays 75,	81,85,89,76,304,296,307,3	222FF			
	259 5.17.6.6	CDS034-1 - Detailed Design for Electrical Installations BS at Inlet Wo	ks 120 edays Fri 12/03/21	Sat 10/07/21	Fri 12/03/21	Sat 10/07/21	Fri 12/03/21	Sat 10/07/21	0 edays 140	0 358,222FF				
-	260 5.17.6.7	CDS025-1 - Detailed Design for LV Switchboards for Inlet Works No.	1 60 edays Mon 03/05/21	Fri 02/07/21	Mon 03/05/2	1 Fri 02/07/21	Mon 03/05/21	Mon 12/07/21	10 edays 71	296,222FF				
1	261 5.17.6.8	CDS026-1 - Detailed Design for HV Switchboards for Inlet Works No.	1 60 edays Sun 18/04/21	Thu 17/06/21	Sun 18/04/21	Thu 17/06/21	Sun 18/04/21	Mon 12/07/21	0.63 edays 67	300,222FF				
1	262 5.17.6.9	CDS050-1 - Detailed Design for Lifting Appliances - Inlet Works No. 1	210 edays Tue 01/09/20	Tue 30/03/21	Tue 01/09/20	Tue 30/03/21	Tue 01/09/20	Tue 30/03/21	0 edays 120	0 293,222FF			T	-
1	263 5.17.7	Manufacturing and Delivery of Plant & Materials	696 days Tue 30/03/21	Thu 23/02/23	Tue 30/03/2	1 Thu 23/02/23	Sun 31/10/21	Sat 16/12/23	215 days					
1	264 5.17.7.1	Inlet Pumps, EQT006	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	. Thu 24/11/22	2 Thu 17/11/22	Sat 11/11/23	352 days					
1	265 5.17.7.1.1	Manufacturing of Inlet Pumps, EQT006	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	Thu 17/11/22	Fri 14/07/23	0 days 25	7 266				
+	266 5.17.7.1.2	Factory Acceptance Test of Plant (to be witnessed by PM)	60 days Mon 21/03/22	Thu 19/05/22	Mon 21/03/2	2 Thu 19/05/22	Sat 15/07/23	Tue 12/09/23	129 days 26	5 267				
1	267 5.17.7.1.3	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/2	2 Thu 24/11/22	Wed 13/09/23	Sat 11/11/23	225 days 26	6,314SS-6332				
1	268 5.17.7.2	Mechanical Raked Bar Screen, EQT052	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/22	2 Sun 23/10/22	Fri 18/08/23	31 days	328				
	269 5.17.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	Sun 23/10/22	Mon 19/06/23	189 days 25	7 270				
1	270 5.17.7.2.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22	Thu 24/11/22	Mon 26/09/2	2 Thu 24/11/22	Tue 20/06/23	Fri 18/08/23	31 days 26	9,31455-6330,333				
L	2715.17.7.3	Screening Conveyors and Diverters, EQT053	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/21	Thu 24/11/22	2 Sat 21/01/23	Thu 16/11/23	357 days					
L	272 5.17.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22	Sat 24/07/21	Sun 20/03/22	2 Sat 21/01/23	Sun 17/09/23	189 days 25	7 273				
1	273 5.17.7.3.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/22		Mon 26/09/2	22 Thu 24/11/22	2 Mon 18/09/23	Thu 16/11/23	143 days 27	2,31455-6331				
1		Screening Screw Type Compactors, EQT003	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/2:		2 Mon 20/02/23		31 days	328				
	274 5.17.7.4	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22			2 Mon 20/02/23		189 days 25			and the second se		
	275 5.17.7.4.1		60 days Mon 26/09/21				2 Wed 18/10/23			5,31455-6336				
	2765.17.7.4.2	Shipping and Delivery of Plant to site	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/2:		2 Mon 06/02/23		373 days	and a star for the star of the				
	277 5.17.7.5	Grit Removal System, EQT004					2 Mon 06/02/23		189 days 25	7 279				
	2785.17.7.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22								An and a state of a st		
	279 5.17.7.5.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/2				2 Wed 04/10/23			8,314SS-6334				
	280 5.17.7.6	Grit Classifiers, EQT005	489 days Sat 24/07/21	Thu 24/11/22			2 Mon 20/02/2		387 days	7 282				
1	2815.17.7.6.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sat 24/07/21	Sun 20/03/22			2 Mon 20/02/23		189 days 25					
	282 5.17.7.6.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/2				2 Wed 18/10/23			1,31455-6335				
1	283 5.17.7.7	Pipework, EQT036 (Rev. 11)	438 days Mon 13/09/2				2 Sun 13/11/22	and a second	288 days 56					
	284 5.17.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days Mon 13/09/2				2 Sun 13/11/22		138 days 25					
-	285 5.17.7.7.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/2	2 Thu 24/11/22			2 Tue 11/07/23		151 days 28	4,31455-6337				
1	286 5.17.7.8	Stoplogs and Penstocks, EQT013	489 days Sat 24/07/21	Thu 24/11/22	Sat 24/07/2	1 Thu 24/11/2	2 Tue 17/05/22	Thu 11/05/23	168 days			11.12.10.10.10.10.10.10.10.10.10.10.10.10.10.		
-	287 5.17.7.8.1	Manufacturing and Factory Acceptance Test of Plant	300 days 5at 24/07/21	Thu 19/05/22	Sat 24/07/2	Thu 19/05/22	2 Tue 17/05/22	Sun 12/03/23	129 days 25	7 288				
-	288 5.17.7.8.2	Shipping and Delivery of Plant to site	60 days Mon 26/09/2	2 Thu 24/11/22	Mon 26/09/	22 Thu 24/11/22	2 Mon 13/03/23	3 Thu 11/05/23	31 days 28	7,31455-6328				
-	289 5.17.7.9	Valves and Actuators, EQT036, EQT042 (Rev. 11)	300 days Mon 14/02/2	2 Sat 10/12/22	Mon 14/02/	22 Sat 10/12/22	2 Sun 13/11/22	Fri 08/09/23	272 days 56	,63				
5	290 5.17.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Mon 14/02/2	2 Tue 11/10/22	Mon 14/02/	22 Tue 11/10/22	2 Sun 13/11/22	Mon 10/07/23	0 days 25	7 291				
_											and a second	ana and a second s		

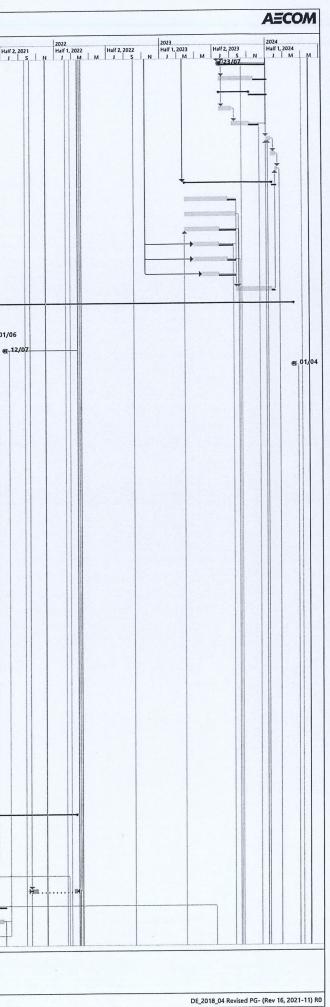
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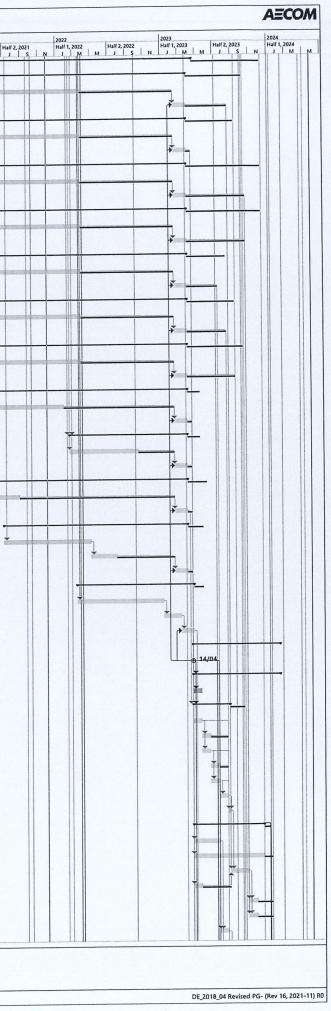
Number Number<	20	hune built		Duration between Task Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors		Resource Names	2020	and all the second	2021
	ID	WBS Task	(Name			June 1							Half 1, 2020		Half 1, 20
Distance	1 2	291 5.17.7.9.2	Shipping and Delivery of Plant to site	60 days Wed 12/10/22	Sat 10/12/22	Wed 12/10/22	Sat 10/12/22	Tue 11/07/23	Fri 08/09/23	135 days 290,31455-6	337				
District	2 2	292 5.17.7.10	Lifting Appliances	590 days Tue 30/03/21	Wed 09/11/22	Tue 30/03/21	Wed 09/11/22	Tue 21/06/22	Sat 01/04/23	143 days					
No.2 Distance Description No.2 No.2 <thno.2< th=""> <thno.2< th=""> No.2</thno.2<></thno.2<>	93 2	293 5.17.7.10.1	Manufacturing and Factory Acceptance Test of Plant	240 days Tue 30/03/21	Wed 24/11/21	Tue 30/03/21	Wed 24/11/21	Tue 21/06/22	Wed 15/02/23	305 days 262	294				
No. 10.000 NU.2002 Nu.2002 <td>94 2</td> <td>294 5.17.7.10.2</td> <td>Shipping and Delivery of Plant to site</td> <td>45 days Mon 26/09/22</td> <td>Wed 09/11/22</td> <td>Mon 26/09/22</td> <td>Wed 09/11/22</td> <td>Thu 16/02/23</td> <td>Sat 01/04/23</td> <td>16 days 293,31455-6</td> <td>5318</td> <td></td> <td></td> <td></td> <td></td>	94 2	294 5.17.7.10.2	Shipping and Delivery of Plant to site	45 days Mon 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/22	Thu 16/02/23	Sat 01/04/23	16 days 293,31455-6	5318				
No No <th< td=""><td>95 3</td><td>295 5.17.7.11</td><td>LV Switchboards</td><td>345 days Wed 16/03/22</td><td>Thu 23/02/23</td><td>Wed 16/03/22</td><td>Thu 23/02/23</td><td>Mon 02/05/22</td><td>Tue 11/04/23</td><td>47 days</td><td></td><td></td><td></td><td></td><td></td></th<>	95 3	295 5.17.7.11	LV Switchboards	345 days Wed 16/03/22	Thu 23/02/23	Wed 16/03/22	Thu 23/02/23	Mon 02/05/22	Tue 11/04/23	47 days					
Displace Displace Conference Conference<	96	296 5.17.7.11.1	IW - Manufacturing of Plant	240 days Wed 16/03/22	Thu 10/11/22	Wed 16/03/22	Thu 10/11/22	Mon 02/05/22	Tue 27/12/22	0 days 258,260,77	297				
	97	797 5.17 7.11 7	IW - Factory Acceptance Test of Plant (to be witnessed by PM)	60 days Fri 11/11/22	Mon 09/01/23	Fri 11/11/22	Mon 09/01/23	Wed 28/12/22	Sat 25/02/23	0 days 296	298				
				45 days Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	Sun 26/02/23	Tue 11/04/23	0 days 31455-60 ec	1343				
									Wed 09/11/22	0 days					
P P< P P P P P P P P P P P P P< P< P< P< P< P </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>301</td> <td></td> <td></td> <td></td> <td></td>							1				301				
			and a second							1					
No. No. No. No. No. No. No. No. No. No. No. No.	102	302 5.17.7.12.3	IW - Shipping and Delivery of Plant to site												
No No <th< td=""><td>803</td><td>303 5.17.7.13</td><td>11kV/380V Stepdown Power Transformers, EQT032</td><td>369 days Sat 06/11/21</td><td>Wed 09/11/22</td><td>Sat 06/11/21</td><td>Wed 09/11/22</td><td>Fri 01/07/22</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	803	303 5.17.7.13	11kV/380V Stepdown Power Transformers, EQT032	369 days Sat 06/11/21	Wed 09/11/22	Sat 06/11/21	Wed 09/11/22	Fri 01/07/22							
Normal biolog Normal b	304	304 5.17.7.13.1	IW - Manufacturing and Factory Acceptance Test of Plant	240 days Sat 06/11/21	Sun 03/07/22	Sat 06/11/21	Sun 03/07/22	Fri 01/07/22	Sat 25/02/23	1					
a admals	805	305 5.17.7.13.2	IW - Shipping and Delivery of Plant to site	45 days Mon 26/09/22	Wed 09/11/22	Mon 26/09/22	Wed 09/11/22	Sun 26/02/23	Tue 11/04/23	60 days 304,31455-	6345				
No. N	06	306 5.17.7.14	PLC System	420 days Sat 06/11/21	Fri 30/12/22	Sat 06/11/21	Fri 30/12/22	Thu 03/03/22	Wed 26/04/23	117 days					
No. No. <td>07</td> <td>307 5.17.7.14.1</td> <td>Manufacturing of Plant, PLC for IW</td> <td>300 days Sat 06/11/21</td> <td>Thu 01/09/22</td> <td>Sat 06/11/21</td> <td>Thu 01/09/22</td> <td>Thu 03/03/22</td> <td>Tue 27/12/22</td> <td>0 days 258</td> <td>308</td> <td></td> <td></td> <td></td> <td></td>	07	307 5.17.7.14.1	Manufacturing of Plant, PLC for IW	300 days Sat 06/11/21	Thu 01/09/22	Sat 06/11/21	Thu 01/09/22	Thu 03/03/22	Tue 27/12/22	0 days 258	308				
al 1011215 in the element of the hybrid of thybrid of the hybrid of thybrid of t	308	308 5.17.7.14.2	Factory Acceptance Test of Plant, PLC for IW (To be witnessed by PM	60 days Fri 02/09/22	Mon 31/10/22	Fri 02/09/22	Mon 31/10/22	Wed 28/12/22	Sat 25/02/23	0 days 307	309				
m m	09	309 5.17.7.14.3	Shipping and Delivery of Plant to site	60 days Tue 01/11/22	Fri 30/12/22	Tue 01/11/22	Fri 30/12/22	Sun 26/02/23	Wed 26/04/23	9 days 31455-60 e	d346 ·				
Normal						Sat 24/07/21	Thu 24/11/22	Thu 10/11/22	Mon 21/08/23	270 days					
			·							204 days 257	312				
m m															
No. Non-start Non-start No. No. No. No. <															
No. No. <td></td> <td>318 316 358FS+120 day</td> <td>IS.</td> <td></td> <td></td> <td></td>											318 316 358FS+120 day	IS.			
No. No. 1000000000000000000000000000000000000	314	314 5.17.8.1													
No. 10.11.11.11 No.11.01.11 Description of the second of	315	315 5.17.8.2	Tentative Civil Handover Date, HV cables draw pits from MFB2 to IW	1 day Tue 14/02/23							32011+30 gays				
1 1	316	316 5.17.8.3	Commencement of E&M Installation at Inlet Works No. 1	439 days Sat 26/11/22	Wed 07/02/24	Sat 26/11/22	Wed 07/02/24	Sat 26/11/22	Tue 13/02/24	5 days 314					
mining mining<	317	317 5.17.8.3.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W	30 days Sat 26/11/22	Sun 25/12/22	Sat 26/11/22	Sun 25/12/22	Sat 26/11/22	Sun 25/12/22	0 days 314					
Bit Market Mar	318	318 5.17.8.3.2	Installation of Lifting Appliances at Inlet Works No. 1	142 days Sat 26/11/22	Sun 16/04/23	Sat 26/11/22	Sun 16/04/23	Sun 02/04/23	Mon 21/08/23	0 days 314,294	32755+30 days,331,332				
10 10 <td< td=""><td>319</td><td>319 5.17.8.3.2.:</td><td>1/F EOT Crane LA-01-01 SWL St</td><td>45 days Tue 10/01/23</td><td>Thu 23/02/23</td><td>Tue 10/01/23</td><td>Thu 23/02/23</td><td>Sat 01/07/23</td><td>Mon 14/08/23</td><td>45 days 322,323</td><td>326</td><td>LA - A x 4~6 men</td><td></td><td></td><td></td></td<>	319	319 5.17.8.3.2.:	1/F EOT Crane LA-01-01 SWL St	45 days Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	Sat 01/07/23	Mon 14/08/23	45 days 322,323	326	LA - A x 4~6 men			
10 10.1 <	320	320 5.17.8.3.2.:	1/F EOT Crane LA-01-02 SWL 5t	45 days Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	Sat 01/07/23	Mon 14/08/23	45 days 322,323	326	LA - B x 4~6 men			
No. N	321	321 5.17.8.3.2.:	1/F EOT Crane LA-01-03 SWL 5t	45 days Tue 10/01/23	Thu 23/02/23	Tue 10/01/23	Thu 23/02/23	Wed 17/05/23	Fri 30/06/23	0 days 322,323	324,326	LA - C x 4~6 men			
Displandary Displandary <thdisplandary< th=""> <thdisplandary< th=""></thdisplandary<></thdisplandary<>			UG EOT Crane LA-01-04 SWL 10t	45 days Sat 26/11/22	Mon 09/01/23	Sat 26/11/22	Mon 09/01/23	Sun 02/04/23	Tue 16/05/23	0 days	319,320,321,326	LA - A x 4~6 men			
Mark Mark <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Mon 09/01/23</td> <td>Sun 02/04/23</td> <td>Tue 16/05/23</td> <td>0 days</td> <td>319,320,321,326</td> <td>LA - B x 4~6 men</td> <td></td> <td></td> <td></td>							Mon 09/01/23	Sun 02/04/23	Tue 16/05/23	0 days	319,320,321,326	LA - B x 4~6 men			
Mark Mark Mark Mark Mark Mark Mark Mark											326	LA - C x 4~6 men			
10/2011/2011/2011/2011/2011/2011/2011/2															
1/14/11/11/11 1/14												IA - B x 4~6 men			
No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	326	326 5.17.8.3.2.1													
1000 10000 1000	327	327 5.17.8.3.3	Mechanical Installations for Inlet Works No. 1	250 days Mon 26/12/22	Fri 01/09/23										
Model Model <th< td=""><td>328</td><td>328 5.17.8.3.3.:</td><td>Installation of penstocks and stoplogs (Penstock 35nos, Stoplogs</td><td>120 days Mon 26/12/22</td><td>Mon 24/04/23</td><td>Mon 26/12/22</td><td>2 Mon 24/04/23</td><td>Fri 12/05/23</td><td>Fri 08/09/23</td><td>0 days 274,268,28</td><td>1£337,338,341</td><td></td><td></td><td></td><td></td></th<>	328	328 5.17.8.3.3.:	Installation of penstocks and stoplogs (Penstock 35nos, Stoplogs	120 days Mon 26/12/22	Mon 24/04/23	Mon 26/12/22	2 Mon 24/04/23	Fri 12/05/23	Fri 08/09/23	0 days 274,268,28	1£337,338,341				
101 1	329	329 5.17.8.3.3.:	Installation of fixed bar screen (x1), EQT046	7 days Mon 17/04/23	Sun 23/04/23	Mon 17/04/23	Sun 23/04/23	Tue 22/08/23	Mon 28/08/23	0 days 326,312	333	ME - D x 2~4 men			
111 1111 111 111	330	330 5.17.8.3.3.:	Installation of mechanical raked coarse bar screens (x4), EQT052	90 days Mon 26/12/22	Sat 25/03/23	Mon 26/12/22	2 Sat 25/03/23	Sat 19/08/23	Thu 16/11/23	22 days 270	331	ME - A x 4~6 men			
No. 1000000000000000000000000000000000000	331	331 5.17.8.3.3.4	Installation of screening conveyors (x6), EQT053	30 days Mon 17/04/23	Tue 16/05/23	Mon 17/04/23	Tue 16/05/23	Fri 17/11/23	Sat 16/12/23	0 days 318,330,27	2336	ME - A x 4~6 men			
131 313.7.13.3 Installation of mechanical rade dine bar screems (u), (CIOO) 17 doty May 200/20 17 li (Dy 20) 18 va 20/00/20 11 li (Dy 20) 11	332	332 5.17.8.3.3.!	Installation of inlet pumps (xS), EQT006	21 days Sat 08/07/23	Fri 28/07/23	Sat 08/07/23	Fri 28/07/23	Sun 12/11/23	Sat 02/12/23	0 days 318,33755	+:334	ME - B x 4~6 men			
Normal with an anti-processing system (s); (2010) 1 d days Stat 20/72 Fit 1/06/2 6 stat 20/72 Fit 1/06/2 6 stat 20/72 Stat 1/2/2 0 days 322,77 35 M E 8 4 4 mm 335 335,73.8.3 Installation of grit dissiller (c), (2010) 21 days 312,02/23 Fit 1/06/23 5 stat 20/723 5 stat 60/724 12 days 332,282 M E 8 4 4 mm 336 355,73.8.3 Installation of grit dissiller (c), (2010) 21 days 342,217 Fit 0/06/2 5 stat 60/72			Installation of mechanical raked fine bar screens (x4), EQT052	75 days Mon 24/04/23	Fri 07/07/23	Mon 24/04/23	Fri 07/07/23	Tue 29/08/23	Sat 11/11/23	0 days 329,270	332	ME - B x 4~6 men			
bit Number bit Numbr bit Numbr bit Numbr						Sat 29/07/23	Fri 11/08/23	Sun 03/12/23	Sat 16/12/23	0 days 332,279	335	ME - B x 4~6 men			
Normalization Normalinterpinanin preserve Normalina interpinance <td></td> <td>ME - B x 4~6 men</td> <td></td> <td></td> <td></td>												ME - B x 4~6 men			
333 333 335 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.												ME - A x 4~6 men			
313 313 315 11.6 ± 1.6 \pm											133255+14 dave 339				
363 363 163 164 1			and a second												
333 333 333 335 336 3	338	338 5.17.8.3.3.:	Pipework pressure tests												
340 340 340 340 340 340 340 340 340 340 340 340 340 341 120 days Tue 25/04/23 Tue 22/08/23 Tue 22/08/23 Sat 09/09/23 Sat 06/01/4 137 days 328 ME-D X2*4 men 340 3425.17.8.3.4 Site Acceptance Tests - mechanical aspects including alignment an 120 days Tue 25/04/23 Non 09/01/23 Non 09/01/23 <td>339</td> <td>339 5.17.8.3.3.:</td> <td>Installation of instrumentations, EQT035-1</td> <td></td> <td>Tue 22/08/23</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>Laboration and the second second</td> <td></td> <td></td> <td></td>	339	339 5.17.8.3.3.:	Installation of instrumentations, EQT035-1		Tue 22/08/23						2	Laboration and the second			
Mail State Acceptance Fests Including anguinetic is Including anguinetis Including anguinetic is </td <td>340</td> <td>340 5.17.8.3.3.:</td> <td>Installation of Platforms, Covers etc, EQT050</td> <td>180 days Mon 26/12/22</td> <td>Fri 23/06/23</td> <td>Mon 26/12/22</td> <td>2 Fri 23/06/23</td> <td>Tue 11/07/23</td> <td>Sat 06/01/24</td> <td>197 days</td> <td></td> <td>ME - D x 2~4 men</td> <td></td> <td></td> <td></td>	340	340 5.17.8.3.3.:	Installation of Platforms, Covers etc, EQT050	180 days Mon 26/12/22	Fri 23/06/23	Mon 26/12/22	2 Fri 23/06/23	Tue 11/07/23	Sat 06/01/24	197 days		ME - D x 2~4 men			
Action	341	341 5.17.8.3.3.:	Site Acceptance Tests - mechanical aspects including alignment a	n 120 days Tue 25/04/23	Tue 22/08/23	Tue 25/04/23	Tue 22/08/23	Sat 09/09/23	Sat 06/01/24	137 days 328		ME - D x 2~4 men			
343 343 5.17.8.3.4. Installation of LV Switchboards, MFB No. 1 (Rev. 8) 60 days Fr124/02/23 Mon 24/04/23 Fr124/02/23 Mon 24/04/23 Sat 10/6/23 0 days 298 348 LV - Ax 4~6 men 344 3445.17.8.3.4. Modification of HV Switchboards, MFB No. 1 (Rev. 8) 30 days Mon 09/01/23 Tue 07/02/33 Mon 09/01/23 Tue 07/02/33 Kill 00/03/23 Sat 10/6/23 Sat 10/6/23 0 days 300 348,349F5430 days Ec-Ax 4~6 men 345 JA75.17.8.3.4. Installation of Transformer, IW, EQT032 60 days Mon 09/01/23 Tue 07/02/23 Kill 00/03/23 Sat 10/6/23 Sat 10/6/23 0 days 300 348,349F5430 days Ec-Ax 4~6 men 346 JA75.17.8.3.4. Installation of CPL Panels, IW 45 days Mon 09/01/23 Wed 22/02/23 Mon 09/01/23 Sat 00/02/3 Sat 10/6/23 Sat 10/6/23 348.349F5430 days Ec-Ax 4~6 men 347 JA75.17.8.3.4. Installation of Cables rays and cable containments 90 days Tue 25/04/23 Sat 09/01/23 Sat 08/04/23 Sat 09/01/23 Sat 08/04/23 Sat 09/01/23 Sat 08/04/23	342	342 5.17.8.3.4	Electrical Installations for Inlet Works No. 1	316 days Mon 09/01/23	Mon 20/11/23	Mon 09/01/2	3 Mon 20/11/2	3 Mon 13/03/23	Sun 07/01/24	42 days 32755+14	d:355				
Modification of HV Switchboards, MFB No. 1 (Rev. 8) 30 days Mon 09/01/23 Tue 07/02/23 Tue 07/02/23 Fri 08/12/23 Sat 06/01/24 166 days 350 U-A x4~6 men 345 345 1nstallation of Transformer, IW, EQT032 60 days Mon 09/01/23 Tuu 09/03/23 Mon 09/01/23 Tuu 09/03/23 Mon 09/01/23 Sat 10/06/23 0 days 305 348,349FS+30 days EE - A x4~6 men 346 345 1nstallation of FLC Panels, IW 45 days Mon 09/01/23 Wed 22/02/23 Mon 09/01/23 Sat 08/04/23 Sat 10/06/23 61 days 305 348,349FS+30 days EE - A x4~6 men 347 347 Installation of CLP Panels, IW 45 days Mon 09/01/23 Sat 08/04/23 Non 09/01/23 Sat 08/04/23 Non 09/01/23 Sat 08/04/23 Sat 10/06/23 16 days 307 348. EE - A x4~6 men 348 347 Installation of Transformer, IW 90 days Tue 25/04/23 Sat 08/04/23 Sat 08/04/23 Sat 10/06/23 Sat 10/06/23 16 days 327.55 348 EE - C x4~6 men 348 348 Energisation of Transformer, IW 10 days Sat 09/04/23 Sat 22/04/23 Sat 22/04/23 Sat 22/04/23 Sat 06/01/24 259 days 345/54.3 -50 EE	1		Installation of LV Switchboards, IW	60 days Fri 24/02/23	Mon 24/04/23	Fri 24/02/23	Mon 24/04/23	Wed 12/04/23	Sat 10/06/23	0 days 298	348	LV - A x 4~6 men			
Art A				30 days Mon 09/01/23	Tue 07/02/23	Mon 09/01/2	3 Tue 07/02/23	Fri 08/12/23	Sat 06/01/24	166 days	350	LV - A x 4~6 men			
345 345 345 345 345 345 345 346 347 346 347 347 347 347 1stallation of cable trays and cable containments 90 days 360 9/01/23 3et 08/04/23 Mon 09/01/23 Set 08/04/23 Mon 09/01/23 Set 10/06/23 61 days 309 348 EE - B x 4^-6 men Image: containments 90 days Mon 09/01/23 Set 08/04/23 Mon 13/03/23 Set 10/06/23 16 days 327.55 348 EE - C x 4^-6 men Image: containments 90 days Mon 09/01/23 Set 08/04/23 Non 13/03/23 Set 10/06/23 16 days 327.55 348 EE - C x 4^-6 men Image: containments 90 days Mon 09/01/23 Set 08/04/23 Non 13/03/23 Set 10/06/23 16 days 327.55 348 EE - C x 4^-6 men Image: containments 90 days Mon 29/01/23 Set 20/04/23 Set 20/04/23 Set 20/04/23 Set 08/04/24 Non 13/03/24 Set 10/06/23 16 days 327.55 348 EE - C x 4^-6 men Image: containments Image: c											348,349FS+30 days	EE - A x 4~6 men			
346 346 346 347 5.17.8.3.4.1 Installation of cable trays and cable containments 90 days Mon 09/01/23 Sat 08/04/23 Mon 09/01/23 Sat 10/06/23 16 days 32755 348 EE - C x 4~6 men 348 349 5.17.8.3.4.1 Installation of cable trays and cable containments 90 days Mon 09/01/23 Sun 23/07/23 Sun 23/07/23 Sun 11/06/23 Sat 10/06/23 0 days 343,345,344350,3453,3451 EE - C x 4~6 men 348 349 5.17.8.3.4.1 Cables laying and terminations 90 days Tue 25/04/23 Sun 23/07/23 Sun 23/07/23 Sun 11/06/23 Sat 06/01/24 259 days 345,544350,353,351 EE - C x 4~6 men 349 349 5.17.8.3.4.1 Cables laying and terminations 90 days Tue 25/04/23 Sun 23/07/23		1													
347 347 347 517.83.4.1 Installation of cable Consumeries 50 days min (5)/dy 25 61 cop/r25 installation of Cable Consumeries 10 days min (5)/dy 25 61 cop/r25 installation of Cable Consumeries 10 days min (5)/dy 25 61 cop/r25									and the second s						
349 349 5.17.8.3.4.* Energisation of Transformer, IW 14 days Sun 09/04/23 Sat 22/04/23 Sun 24/12/23 Sat 06/01/24 259 days 345FS+30 di 349 Task Milestone Project Summary 1 1 1						La mininger miner									
Task Milestone + Project Summary 1 Late Critical Split	348	348 5.17.8.3.4.1										LL-CA4 UMEN			
	349	349 5.17.8.3.4.	Energisation of Transformer, IW	14 days Sun 09/04/23	Sat 22/04/23	Sun 09/04/23	Sat 22/04/23	Sun 24/12/23	Sat 06/01/24	259 days 345FS+30	01				
			lack Milestone I Droiart C	ummary 1 Late		Critical Split		Manual Progress	N	filestone (Actual) 🛨					
				and the second of the second sec				Slack (Float)	S	lack					



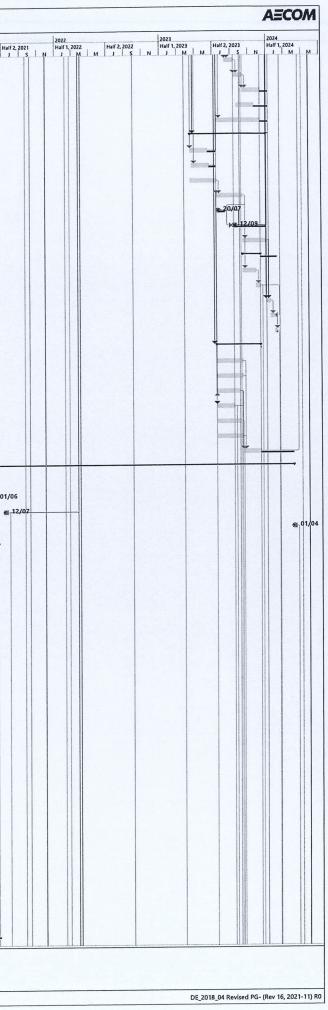
2	Comments of the Herd Cond Street	epartment					Wu Hui Effluent I	Polishing Plant - Ma		orks for Sewage Treatmen					-
ID	WBS Ta	sk Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors	Resource Names	2020 Half 1, 2020	Half 2, 202		1 1, 2021
	2505 1702 41	Energisation of LV Switchboards, IW	0 days Sun 23/07/23	Sun 23/07/23	Sun 23/07/23	Sun 23/07/23	Sun 07/01/24	Sun 07/01/24	162 days 348,315FF+	:355	LV - A x 4~6 men		M_ _J	S N J	
	350 5.17.8.3.4.4					Mon 20/11/23		Sat 06/01/24	47 days 348		LV - A x 4~6 men				
	351 5.17,8.3.4.	Site Acceptance Tests - Electrical aspects including voltage and cur	120 days Mon 24/07/23	Mon 20/11/23				Sat 06/01/24							
	352 5.17.8.3.5	SCADA Systems, Inlet Works	105 days Mon 24/07/23	Sun 05/11/23	1	Sun 05/11/23			62 days		N.C. Autom				
1	353 5.17.8.3.5.:	Configuration of PLC System, IW	45 days Mon 24/07/23	Wed 06/09/23	Mon 24/07/23	Wed 06/09/23	Sun 24/09/23	Tue 07/11/23	0 days 348	354	PLC - A x 1 man				
	354 5.17.8.3.5.:	Site Acceptance Test for PLC System at Inlet Works No. 1	60 days Thu 07/09/23	Sun 05/11/23	Thu 07/09/23	Sun 05/11/23	Wed 08/11/23	Sat 06/01/24	35 days 353	355,1282					
1	355 5.17.8.3.6	Site Acceptance Test for E&M Equip & Instrumentations calibration,	15 days Tue 02/01/24	Tue 16/01/24	Tue 02/01/24	Tue 16/01/24	Sun 07/01/24	Sun 21/01/24	0 days 327,342,35	C356					
-	356 5.17.8.3.7	System Commissioning for E&M Equip at Inlet Works No. 1	15 edays Tue 16/01/24	Wed 31/01/24	Tue 16/01/24	Wed 31/01/24	Mon 22/01/24	Tue 06/02/24	0 edays 355	357					
_	357 5.17.8.3.8	Risk Allowances for completion of Processing Plant at Inlet Works Nc	7 edays Wed 31/01/24	Wed 07/02/24	Wed 31/01/24	Wed 07/02/24	Tue 06/02/24	Tue 13/02/24	0.63 edays 356,365	1278					
_						Fri 19/01/24	Wed 12/04/23		17 days 314FS+120			-			
	358 5.17.8.3.9	Building Services Installations for Inlet Works No. 1	300 days Sun 26/03/23	Fri 19/01/24											
	359 5.17.8.3.9.:	Mechanical Ventilation and Air Conditioning System, IW	150 days Sun 26/03/23	Tue 22/08/23		Tue 22/08/23		Sun 08/10/23	30 days	365	MVAC - B x 4~6 men				
	360 5.17.8.3.9.:	Lighting and Power Distribution System, IW	180 days Sun 26/03/23	Thu 21/09/23	Sun 26/03/23	Thu 21/09/23	Wed 12/04/23	Sun 08/10/23	0 days	365	BS - A x 4~6 men				
	361 5.17.8.3.9.:	Plumbing Installation, IW	120 days Sun 26/03/23	Sun 23/07/23	Sun 26/03/23	Sun 23/07/23	Tue 06/06/23	Tue 03/10/23	60 days 1249	1251,365	Pb - A x 4~6 men				
	362 5.17.8.3.9.4	CCTV Installation (5 indoor +5 outdoor Cameras), IW	90 days Mon 24/04/23	Sat 22/07/23	Mon 24/04/23	Sat 22/07/23	Tue 11/07/23	Sun 08/10/23	51 days 31455+150	(365,1281	BS - B x 4~6 men				
	363 5.17.8.3.9.!	Fire Services Installation, IW	120 days Mon 24/04/23	Mon 21/08/23	Mon 24/04/23	Mon 21/08/23	Sun 11/06/23	Sun 08/10/23	31 days 31455+150	(1202,1214,1215,365	FS - A x 4~6 men				
			60 days Wed 24/05/23	Sat 22/07/23		Sat 22/07/23		Sun 08/10/23	61 days 31455+180	(365	BS - C x 2~4 men				
	364 5.17.8.3.9.1	Earthing and Lightning Protection System, IW							12 days 359,360,36		BS - C x 2~4 men				
	365 5.17.8.3.9.	Testing and Commissioning of Building Services Installations, IW	120 days Fri 22/09/23	Fri 19/01/24	Fri 22/09/23	Fri 19/01/24	Mon 09/10/23			1227		a			
T	366 5.18	Primary Sedimentation Tanks No. 1 ~ 4, Portion B-3 (PS 6B2.2)	1371 days Wed 01/07/20	Mon 01/04/24	Wed 01/07/20	0 Mon 01/04/24	Wed 01/07/20		0 days					- 30.40	
1	367 5.18.1	Planned Key Date Completion Date - KD1A, PST No. 1~4	0 days Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days 401FF,402	FI				@ 30/10	
+	368 5.18.2	Planned Key Date Completion Date - KD1B, PST No. 1~4	1 day Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 403FF						
	369 5.18.3	Planned Sectional Completion Date - Section 1, PST No. 1~4	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	0 days 406FF,405I	FI					
		Planned Sectional Completion Date - Section 2, 157 No. 1~4	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	0 days 494FF						
	370 5.18.4) Mon 15/02/21			0 days						-
	371 5.18.5	Selection of Suppliers for major plant and materials for PST No. 1"4	230 days Wed 01/07/20	Mon 15/02/21									-		
	372 5.18.5.1	PST - lamella plate settlers, C11, ref. EQT014	90 days Wed 01/07/20	Mon 28/09/20	Wed 01/07/20	Mon 28/09/20	Wed 01/07/20	Mon 28/09/20	0 days						
1	373 5.18.5.1.1	Submission for acceptance of purchasing package	30 days Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	Wed 01/07/20	Thu 30/07/20	0 days	374					
1	374 5,18.5,1.2	Invitation of quotations for purchasing package	30 days Fri 31/07/20	Sat 29/08/20	Fri 31/07/20	Sat 29/08/20	Frl 31/07/20	Sat 29/08/20	0 days 373	375			1 Š		
+	375 5.18.5.1.3	Acceptance of conforming quotation (Completed)	30 days Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	Sun 30/08/20	Mon 28/09/20	0 days 374	404			*	-	
	376 5.18.5.2	PST - reciprocating type bottom scrapers, C11, ref. EQT014	135 days Wed 01/07/20	Thu 12/11/20	Wed 01/07/20	Thu 12/11/20	Wed 01/07/20	Thu 12/11/20	0 days					++-4	
1			45 days Wed 01/07/20	Fri 14/08/20	Wed 01/07/20		Wed 01/07/20	Fri 14/08/20	0 days	378					
	377 5.18.5.2.1	Submission for acceptance of purchasing package								379					
	378 5.18.5.2.2	Invitation of quotations for purchasing package	60 days Sat 15/08/20	Tue 13/10/20	Sat 15/08/20	Tue 13/10/20	Sat 15/08/20	Tue 13/10/20	0 days 377			August and a second	T		
1	379 5.18,5.2.3	Acceptance of conforming quotation (Completed)	30 days Wed 14/10/20	Thu 12/11/20	Wed 14/10/20	Thu 12/11/20	Wed 14/10/20	Thu 12/11/20	0 days 378	404					
1	380 5.18.5.3	PST - surface scum skimmers, C11, ref. EQT015	90 days Tue 07/07/20	Sun 04/10/20	Tue 07/07/20	Sun 04/10/20	Tue 07/07/20	Sun 04/10/20	0 days					1	
-	381 5.18.5.3.1	Submission for acceptance of purchasing package	30 days Tue 07/07/20	Wed 05/08/20	Tue 07/07/20	Wed 05/08/20	Tue 07/07/20	Wed 05/08/20	0 days	382					
	382 5.18.5.3.2	Invitation of quotations for purchasing package	30 days Thu 06/08/20	Fri 04/09/20	Thu 06/08/20	Fri 04/09/20	Thu 06/08/20	Frl 04/09/20	0 days 381	383			1 ±		
_		Acceptance of conforming quotation	30 days Sat 05/09/20	Sun 04/10/20	Sat 05/09/20	Sun 04/10/20	Sat 05/09/20	Sun 04/10/20	0 days 382	404			1	<u>-</u>	
-	383 5.18.5.3.3						Wed 01/07/20	Tue 26/01/21	O days						
•	384 5.18.5.4	PST - scum collector pipes, C11, ref. EQT015	210 days Wed 01/07/20	Tue 26/01/21	Wed 01/07/20										
5	385 5,18.5.4.1	Submission for acceptance of purchasing package	120 days Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	0 days	386				TĻ	
;	386 5.18.5.4.2	Invitation of quotations for purchasing package	60 days Thu 29/10/20	Sun 27/12/20	Thu 29/10/20	Sun 27/12/20	Thu 29/10/20	Sun 27/12/20	0 days 385	387					
7	387 5,18.5.4.3	Acceptance of conforming quotation	30 days Mon 28/12/20	Tue 26/01/21	Mon 28/12/20	Tue 26/01/21	Mon 28/12/20	Tue 26/01/21	0 days 386	404				* -	-
8	388 5.18.5.5	PST - piston type primary sludge pumps, C11, ref. EQT016	210 days Wed 01/07/20	Tue 26/01/21	Wed 01/07/20	Tue 26/01/21	Wed 01/07/20	Tue 26/01/21	0 days					++	•
19	389 5.18.5.5.1	Submission for acceptance of purchasing package	120 days Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	Wed 01/07/20	Wed 28/10/20	0 days	390				<u>++-</u> 1	
_					Thu 29/10/20	Sun 27/12/20	Thu 29/10/20	Sun 27/12/20	0 days 389	391					
D	390 5,18.5.5.2	Invitation of quotations for purchasing package	60 days Thu 29/10/20	Sun 27/12/20						404				+	-
1	391 5.18.5.5.3	Acceptance of conforming quotation (Completed)	30 days Mon 28/12/20	Tue 26/01/21	Mon 28/12/20		Mon 28/12/20	Tue 26/01/21	0 days 390	104					
2	392 5.18.5.6	PST - drain pumps, C11, ref. EQT007	210 days Tue 14/07/20	Mon 08/02/21	Tue 14/07/20	Mon 08/02/21	Tue 14/07/20	Mon 08/02/21	0 days						
3	393 5.18.5.6.1	Submission for acceptance of purchasing package	120 days Tue 14/07/20	Tue 10/11/20	Tue 14/07/20	Tue 10/11/20	Tue 14/07/20	Tue 10/11/20	O days	394				TT	
4	394 5.18.5.6.2	Invitation of quotations for purchasing package	60 days Wed 11/11/20	Sat 09/01/21	Wed 11/11/20	Sat 09/01/21	Wed 11/11/20	Sat 09/01/21	0 days 393	395					
	395 5.18.5.6.3	Acceptance of conforming quotation (Completed)	30 days Sun 10/01/21	Mon 08/02/21	Sun 10/01/21	Mon 08/02/21	Sun 10/01/21	Mon 08/02/21	0 days 394	404				1 ×	-
95			210 days Tue 21/07/20	Mon 15/02/21	Tue 21/07/20			Mon 15/02/21	0 days					++	-1
6	396 5.18.5.7	PST - air blowers, C11, ref. EQT018								209					
7	397 5.18.5.7.1	Submission for acceptance of purchasing package	120 days Tue 21/07/20	Tue 17/11/20	Tue 21/07/20	Tue 17/11/20	Tue 21/07/20	Tue 17/11/20	0 days	398					
98	398 5.18.5.7.2	Invitation of quotations for purchasing package	60 days Wed 18/11/20	Sat 16/01/21	Wed 18/11/20	Sat 16/01/21	Wed 18/11/20	Sat 16/01/21	Q days 397	399					11
9	399 5.18.5.7.3	Acceptance of conforming quotation	30 days Sun 17/01/21	Mon 15/02/21	Sun 17/01/21	Mon 15/02/21	Sun 17/01/21	Mon 15/02/21	0 days 398	404				-	-1
0	400 5.18.6	Design Submissions for PST No. 1~ 4	587 days Sat 01/08/20	Fri 11/03/22	Sat 01/08/20	Fri 11/03/22	Sat 01/08/20	Fri 11/03/22	0 days				-	11	+
01	4015.18.6.1	Electrical schematic drawings for PST No. 1~4	60 days Sat 01/08/20	Tue 29/09/20	Sat 01/08/20	Tue 29/09/20	Sat 01/08/20	Tue 29/09/20	0 days	367FF					
	1	CDS080-2 - Civil and dimensional requirements drawings for PST No. 1~4 up to		Tue 20/10/20	Tue 01/09/20		Tue 01/09/20	Tue 20/10/20	0 days	367FF				4	
2	402 5.18.6.2									368FF					1
13	403 5.18.6.3	CDS081-2 - Civil and dimensional requirements drawings for PST No. 1		Thu 28/01/21	Tue 01/09/20			Thu 28/01/21	0 days						#
4	404 5.18.6.4	CDS003 - Detailed Design for Primary Sedimentation Tanks No. 1~4	104 edays Mon 15/02/21	Sun 30/05/21	Mon 15/02/2	1 Sun 30/05/21	Mon 15/02/21			8:411,414,417,420,423,4	120				T
15	405 5.18.6.5	CDS022 - Detailed Design for Electrical Installations for PST No. 1~4	154.88 edays Thu 07/10/21	Fri 11/03/22	Thu 07/10/21	Fri 11/03/22	Thu 07/10/21	Fri 11/03/22	0 edays 75,85,93,1	19-76,445,369FF					
06	406 5.18.6.6	CDS034-2 - Detailed Design for Electrical Installations BS at PST No. 1	4 90 edays Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Mon 12/07/21	32.38 edays 140	487,369FF					
07	407 5.18.6.7	CDS025-2 - Detailed Design for LV Switchboards for PST No. 1~4	60 edays Mon 03/05/21	Fri 02/07/21		1 Fri 02/07/21	Mon 03/05/21	Mon 12/07/21	0.63 edays 71	441,369FF					
				Fri 29/01/21) Fri 29/01/21			0 edays 120	438,369FF		- Martine and	+		-
408	408 5.18.6.8	CDS050-2 - Detailed Design for Lifting Appliances - PST No. 1 ~ 4	150 edays Tue 01/09/20	111 23/01/21	106 01/09/20		142 01/03/20		0 00013 120						11
Be	stwise ct DE/2018/04	Task Milestone + Project S Milestone, Tentative © Summary Manual	ummary [] Late Summary [] Critical		Critical Split . Progress		Manual Progress)	Milestone (Actual) +						



				-		1- 1	E 1 5 11	h	hats F. 14	Free Clast In .	· Succost	Resource Names	1		2021
ID	WBS Task	k Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessor	s puccessors	Resource Marnes	2020 Half 1, 2020 N J M N	Half 2, 2020	2021 Half 1,
409	5.18.7	Manufacturing and Delivery of Plant & Materials	811 days	Fri 29/01/21	Wed 19/04/23	Fri 29/01/21	Wed 19/04/23	Sun 13/03/22	Thu 07/12/23	232 days					-
0 410	5.18.7.1	Lamella Plate Settlers, EQT014	668 days	Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03/23	Sat 29/10/22	Sun 08/10/23	193 days					
1 411	5.18.7.1.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	Sat 29/10/22	Thu 24/08/23	323 days 404	412				
2 412	5.18.7.1.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/23	Fri 25/08/23	Sun 08/10/23	143 days 411,44955	-6463				
3 413	5.18.7.2	Reciprocating Type Bottom Scrappers, EQT014	668 days	Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03/23	Thu 29/09/22	Fri 08/09/23	163 days					
	5.18.7.2.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	Thu 29/09/22	Tue 25/07/23	323 days 404	415				
	5.18.7.2.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/23	Wed 26/07/23	Fri 08/09/23	16 days 414,44955	-6464				
	5.18.7.3	Surface Scum Skimmers, EQT015		Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03/23	Wed 28/12/22	Thu 07/12/23	253 days					
		Manufacturing and Factory Acceptance Test of Plant		Mon 31/05/21	Sat 26/03/22		Sat 26/03/22			323 days 404	418				
	5.18.7.3.1			Mon 13/02/23	Wed 29/03/23		Wed 29/03/23		Thu 07/12/23	203 days 417,44955					
	35.18.7.3.2	Shipping and Delivery of Plant to site					Wed 29/03/23			253 days			-		
	95.18.7.4	Surface Scum Collection Pipes, EQT015		Mon 31/05/21	Wed 29/03/23					323 days 404	421				
420	5.18.7.4.1	Manufacturing and Factory Acceptance Test of Plant		Mon 31/05/21	Sat 26/03/22		Sat 26/03/22								
21 421	15.18.7.4.2	Shipping and Delivery of Plant to site		Mon 13/02/23	Wed 29/03/23		Wed 29/03/23		Thu 07/12/23	203 days 420,44955	-0400				
22 422	2 5.18.7.5	Piston Type Primary Sludge Pumps, EQT016	668 days	Mon 31/05/21	Wed 29/03/23		Wed 29/03/23		Wed 09/08/23	133 days					
23 423	3 5.18.7.5.1	Manufacturing and Factory Acceptance Test of Plant	300 days	Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	Tue 30/08/22	Sun 25/06/23	323 days 404	424				
24 424	45.18.7.5.2	Shipping and Delivery of Plant to site	45 days	Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/23	Mon 26/06/23	Wed 09/08/23	106 days 423,44955	-6467				
25 42	5 5.18.7.6	Drain Pumps, EQT007	668 days	Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03/23	Thu 29/09/22	Fri 08/09/23	163 days					
26 42	65.18.7.6.1	Manufacturing and Factory Acceptance Test of Plant	300 days	s Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	Thu 29/09/22	Tue 25/07/23	323 days 404	427				
	75.18.7.6.2	Shipping and Delivery of Plant to site	45 days	s Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/23	Wed 26/07/23	Fri 08/09/23	136 days 426,4495	-6468				
	85.18.7.7	Air Blower, EQT018	668 days	s Mon 31/05/21	Wed 29/03/23	Mon 31/05/21	Wed 29/03/23	Sat 29/10/22	Sun 08/10/23	193 days					
	95.18.7.7.1	Manufacturing and Factory Acceptance Test of Plant	300 day	s Mon 31/05/21	Sat 26/03/22	Mon 31/05/21	Sat 26/03/22	Sat 29/10/22	Thu 24/08/23	323 days 404	430				
		Shipping and Delivery of Plant to site		s Mon 13/02/23	Wed 29/03/23		Wed 29/03/23		Sun 08/10/23	166 days 429,4495	-6469				
	05.18.7.7.2			s Mon 31/05/21	Wed 29/03/23		Wed 29/03/23			43 days					
	15.18.7.8	Stoplogs and Penstocks, EQT013			Tue 25/01/22		Tue 25/01/22		Mon 27/03/23	383 days 404	433		-		
32 43	25.18.7.8.1	Manufacturing and Factory Acceptance Test of Plant		s Mon 31/05/21					Thu 11/05/23	16 days 44955-60					
33 43	35.18.7.8.2	Shipping and Delivery of Plant to site		s Mon 13/02/23	Wed 29/03/23		Wed 29/03/23				20401				
34 43	45.18.7.9	Pipework, Valves and Electric Actuators, EQT036, EQT042 (Rev. 11)	409 day	s Mon 14/02/22	Wed 29/03/23		Wed 29/03/23			43 days 56,63					
35 43	5 5.18.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 day	s Mon 14/02/22	Tue 11/10/22		Tue 11/10/22		Mon 27/03/23	124 days 404	436		No. of Mary Sec.		
36 43	65.18.7.9.2	Shipping and Delivery of Plant to site	45 day	s Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/23	Tue 28/03/23	Thu 11/05/23	16 days 435,4495	5-6462				
37 43	75.18.7.10	Lifting Appliances	790 day	s Fri 29/01/21	Wed 29/03/23	Fri 29/01/21	Wed 29/03/23	Thu 22/09/22	Sat 03/06/23	66 days					
438 43	85.18.7.10.1	Manufacturing and Factory Acceptance Test of Plant	210 day	rs Fri 29/01/21	Thu 26/08/21	Fri 29/01/21	Thu 26/08/21	Thu 22/09/22	Wed 19/04/23	535 days 408	439				
439 43	9 5.18.7.10.2	Shipping and Delivery of Plant to site	45 day	s Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/23	Thu 20/04/23	Sat 03/06/23	16 days 438,4495	5-6452				
40 44	0 5.18.7.11	LV Switchboards	635 day	rs Sat 03/07/21	Wed 29/03/23	Sat 03/07/21	Wed 29/03/23	Sun 13/03/22	Sun 21/05/23	53 days					
441 44	15.18.7.11.1	PST - Manufacturing of Plant	300 day	s Sat 03/07/21	Thu 28/04/22	Sat 03/07/21	Thu 28/04/22	Sun 13/03/22	Fri 06/01/23	0 days 407	442				
	12 5.18.7.11.2	PST - Factory Acceptance Test of Plant (to be witnessed by PM)	90 day	s Fri 29/04/22	Wed 27/07/22	Fri 29/04/22	Wed 27/07/22	Sat 07/01/23	Thu 06/04/23	200 days 441	443				
	13 5.18.7.11.3	PST - Shipping and Delivery of Plant to site		s Mon 13/02/23	Wed 29/03/23	Mon 13/02/23	Wed 29/03/23	Fri 07/04/23	Sun 21/05/23	16 days 442,4495	5-6474				
	44 5.18.7.12	PLC System		rs Fri 11/03/22	Wed 19/04/23	Fri 11/03/22	Wed 19/04/23	Tue 12/04/22	Sun 21/05/23	32 days					
-				/s Fri 11/03/22	Wed 04/01/23	Fri 11/03/22		Tue 12/04/22		0 days 405	446				
	45 5.18.7.12.1	Manufacturing of Plant, PLC for PST		/s Thu 05/01/23	Sun 05/03/23	Thu 05/01/23				0 days 445	447		and the second se		
	46 5.18.7.12.2	Factory Acceptance Test of Plant, PLC for PST (To be witnessed by P)					Wed 19/04/23		Sun 21/05/23	0 days 446,4495					
447 44	47 5.18.7.12.3	Shipping and Delivery of Plant to site		/s Mon 06/03/23	Wed 19/04/23										
448 44	48 5.18.8	Site Installation Work		ys Fri 14/04/23	Mon 05/02/24	Fri 14/04/23	Mon 05/02/24		Mon 01/04/24	0 days	453 40755.00 days	450.4			
449 44	49 5.18.8.1	Tentative Civil Handover Date, Portion B-3, PST No. 1~4 (Rev. 5)	1 da	ay Fri 14/04/23	Fri 14/04/23	Fri 14/04/23	Fri 14/04/23		Fri 14/04/23	0 days	452,487FS+90 days				
450 4	50 5.18.8.2	Commencement of E&M Installation at PST No. 1"4	297 day	ys Sat 15/04/23	Mon 05/02/24	Sat 15/04/23	Mon 05/02/24	Sat 15/04/23	Mon 01/04/24	0 days 449		403			
451 4	51 5.18.8.2.1	Provision of Temporary Water Supply, Electricity Supply, Lighting We	30 day	ys Sat 15/04/23	Sun 14/05/23	Sat 15/04/23			Sun 14/05/23	0 days 449					
452 4	52 5.18.8.2.2	Installation of Lifting Appliances at PST No. 1"4	127 day	ys Sat 15/04/23	Sat 19/08/23	Sat 15/04/23	Sat 19/08/23	Sun 04/06/23	Sun 08/10/23	50 days 449,439					
453 4	53 5.18.8.2.2.:	Basement EOT Crane LA-02-01 SWL 10t	30 day	ys Sat 15/04/23	Sun 14/05/23	Sat 15/04/23	Sun 14/05/23	Sun 04/06/23	Mon 03/07/23	0 days	454,455,459	LA - A x 4~6 men			
	54 5.18.8.2.2.:	Coping Level EOT Crane LA-02-02 SWL 5t	30 day	ys Mon 15/05/23	Tue 13/06/23	Mon 15/05/2	3 Tue 13/06/23	Sat 02/09/23	Sun 01/10/23	60 days 453	459	LA - A x 4~6 men			
	55 5.18.8.2.2.:	Coping Level EOT Crane LA-02-03 SWL St	30 da	ys Mon 15/05/23	Tue 13/06/23	Mon 15/05/2	3 Tue 13/06/23	Tue 04/07/23	Wed 02/08/23	0 days 453	456,457,459	LA - B x 4~6 men			
	56 5.18.8.2.2.4	Coping Level EOT Crane LA-02-04 SWL 5t		ys Wed 14/06/23	Thu 13/07/23	Wed 14/06/2	3 Thu 13/07/23	Sat 02/09/23	Sun 01/10/23	30 days 455	459	LA - A x 4~6 men			
	57 5.18.8.2.2.	Coping Level EOT Grane LA-02-05 SWL 5t		ys Wed 14/06/23	Thu 13/07/23		3 Thu 13/07/23		Fri 01/09/23	0 days 455	458,459	LA - B x 4~6 men			
		Coping Level EOT Crane LA-02-05 SWL 31		ys Fri 14/07/23	Sat 12/08/23	Fri 14/07/23		Sat 02/09/23	Sun 01/10/23	0 days 457	459	LA - A x 4~6 men			
	58 5.18.8.2.2.1			ys Sun 13/08/23	Sat 19/08/23		Sat 19/08/23	Mon 02/10/23		0 days 453,454,		LA - A x 4~6 men	and the second se		
	59 5.18.8.2.2.	T&C, Loading Test for Lifting Appliances at PST No. 1~4				Sat 15/04/23			Sat 06/01/24	20 days	484				
	60 5.18.8.2.3	Mechanical Installations at PST No. 1~4		ys Sat 15/04/23	Sun 10/12/23							ME - E x 4~6 men			
461 4	61 5.18.8.2.3.:	Installation of penstocks and stoplogs (Penstock 18nos, Stoplogs 1		ys Sat 15/04/23	Thu 13/07/23	Sat 15/04/23			Wed 09/08/23	0 days 433	467,472	ME-Bx4~6 men			
462 4	62 5.18.8.2.3.:	Installation of pipework and valves, EQT036		ys Sat 15/04/23	Sun 10/12/23	Sat 15/04/23			Sat 06/01/24	27 days 436					
463 4	163 5.18.8.2.3.:	Installation of lamella plate settlers (x4), EQT014		ys Sun 20/08/23	Wed 18/10/23	Sun 20/08/23			Thu 07/12/23	0 days 464,459,		ME - A x 4~6 men	test by the starting		
464 4	464 5.18.8.2.3.4	Installation of reciprocating type bottom scrapers (x4), EQT014	30 da	ys Sat 15/04/23	Sun 14/05/23	Sat 15/04/23		Sat 09/09/23	Sun 08/10/23	97 days 415	463	ME - A x 4~6 men	Landar Harris		
465 4	465 5.18.8.2.3.!	Installation of surface scum skimmers (x1), EQT015	30 da	ys Thu 19/10/23	Fri 17/11/23	Thu 19/10/23	Fri 17/11/23	Fri 08/12/23	Sat 06/01/24	50 days 463,418		ME - A x 4~6 men			
466 4	466 5.18.8.2.3.0	Installation of scum collector pipes (x1), EQT015	30 da	ys Thu 19/10/23	Fri 17/11/23	Thu 19/10/23	Fri 17/11/23	Fri 08/12/23	Sat 06/01/24	50 days 463,421		ME - B x 4~6 men			
	467 5.18.8.2.3.	Installation of piston type primary sludge pumps (x3), EQT016	30 da	ys Fri 14/07/23	Sat 12/08/23	Fri 14/07/23	Sat 12/08/23	Thu 10/08/23	Fri 08/09/23	0 days 461,424	468	ME - C x 4~6 men			
-		Task Milestone + Project St		Late		Critical Split	····· ·	Manual Progress	N	filestone (Actual) *					
Bestw		Milestone, Tentative 🖲 Summary Manual S	ummary I	1 Critical	Contraction in the second	oyiess	3								

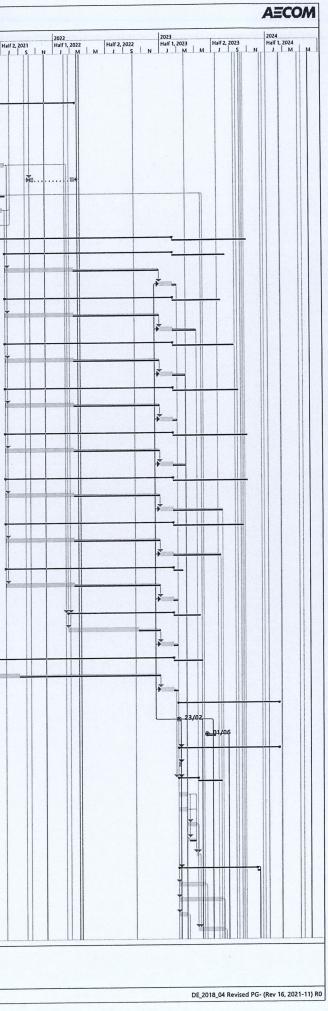


8 468 9 469 1 470 1 471 2 472 3 473 4 474 5 475 6 476 7 477 7 477 8 478 9 479 0 480 11 481 12 482 13 483	55.18.8.2.3.4 55.18.8.2.3.1 55.18.8.2.3.2 15.18.8.2.3.2 25.18.8.2.4.2 45.18.8.2.4.4 55.18.8.2.4.4 55.18.8.2.4.4 55.18.8.2.4.4 95.18.8.2.4.4	Installation of drain pumps (x1), EQT007 Installation of air blowers (x2), EQT018 Installation of instrumentations, EQT035-1 Installation of Platforms, Covers etc., PST, EQT050 Site Acceptance Tests - mechanical aspects including alignment an Electrical Installations for PST No. 1~4 Installation of LV Switchboards, PST	Duration between Task Start and Finish 30 days Sun 13/08/23 30 days Tue 12/09/23 60 days Thu 12/10/23	Finish Mon 11/09/23 Wed 11/10/23	Early Start Sun 13/08/23	Early Finish Mon 11/09/23	Late Start	Late Finish	Free Slack Predecessors 0 days 467,427		Resource Names	2020 Half 1, 2020 N J M M J	202 IIf 2, 2020 Hall J S N J
469 469 0 470 1 471 2 472 3 473 4 474 5 475 6 476 7 477 7 477 9 479 9 479 0 480 1 481 12 482 12 482 13 483	95.18.8.2.3. 95.18.8.2.3. 15.18.8.2.3. 25.18.8.2.4. 45.18.8.2.4. 55.18.8.2.4. 55.18.8.2.4. 55.18.8.2.4. 55.18.8.2.4. 85.18.8.2.4. 95.18.8.2.4.	Installation of air blowers (x2), EQT018 Installation of instrumentations, EQT035-1 Installation of Platforms, Covers etc., PST, EQT050 Site Acceptance Tests - mechanical aspects including alignment an Electrical Installations for PST No. 1~4	30 days Tue 12/09/23 60 days Thu 12/10/23		Sun 13/08/23	Mon 11/09/23	5.1.00/00/00	-	0 days 467 427	100			, <u> </u>
469 469 0 470 1 471 2 472 3 473 4 474 5 475 6 476 7 477 7 477 9 479 9 479 0 480 1 481 12 482 12 482 13 483	95.18.8.2.3. 95.18.8.2.3. 15.18.8.2.3. 25.18.8.2.4. 45.18.8.2.4. 55.18.8.2.4. 55.18.8.2.4. 55.18.8.2.4. 55.18.8.2.4. 85.18.8.2.4. 95.18.8.2.4.	Installation of air blowers (x2), EQT018 Installation of instrumentations, EQT035-1 Installation of Platforms, Covers etc., PST, EQT050 Site Acceptance Tests - mechanical aspects including alignment an Electrical Installations for PST No. 1~4	30 days Tue 12/09/23 60 days Thu 12/10/23	Wed 11/10/23			Sat 09/09/23	Sun 08/10/23	0 00495 407,427	469	ME - Cx 4~6 men	A CONTRACTOR OF A CONTRACTOR O	
0 470 1 471 2 472 3 473 4 474 5 475 6 476 7 477 8 478 9 479 10 480 11 481 12 482 13 483	D 5.18.8.2.3. 1 5.18.8.2.3. 2 5.18.8.2.3. 3 5.18.8.2.4 4 5.18.8.2.4. 5 5.18.8.2.4. 5 5.18.8.2.4. 7 5.18.8.2.4. 8 5.18.8.2.4. 9 5.18.8.2.4.	Installation of instrumentations, EQT035-1 Installation of Platforms, Covers etc., PST, EQT050 Site Acceptance Tests - mechanical aspects including alignment an Electrical Installations for PST No. 1~4	60 days Thu 12/10/23		Tue 12/09/23	Wed 11/10/23	Mon 09/10/23	Tue 07/11/23	0 days 468,430	470	ME - C x 4~6 men		
1 471 2 472 3 473 4 474 5 475 6 476 7 477 8 478 9 479 00 480 11 481 12 482 13 483	15.18.8.2.3.: 25.18.8.2.3.: 35.18.8.2.4 45.18.8.2.4.: 55.18.8.2.4.: 65.18.8.2.4.: 75.18.8.2.4.: 85.18.8.2.4.: 95.18.8.2.4.:	Installation of Platforms, Covers etc., PST, EQT050 Site Acceptance Tests - mechanical aspects including alignment an Electrical Installations for PST No. 1~4		Sun 10/12/23		Sun 10/12/23		Sat 06/01/24	27 days 469,52		ME - C x 4~6 men		
2 472 3 473 4 474 5 475 6 476 7 477 8 478 9 479 0 480 1 481 2 482 3 483	2 5.18.8.2.3.: 3 5.18.8.2.4 4 5.18.8.2.4.: 5 5.18.8.2.4.: 6 5.18.8.2.4.: 7 5.18.8.2.4.: 8 5.18.8.2.4.: 9 5.18.8.2.4.!	Site Acceptance Tests - mechanical aspects including alignment an Electrical Installations for PST No. 1"4	60 gays Inn 51/09/53				Wed 08/11/23	Sat 06/01/24	48 days		ME - F x 4~6 men		
3 473 4 474 5 475 6 476 7 477 8 478 9 479 0 480 1 481 2 482 3 483	3 5.18.8.2.4 4 5.18.8.2.4.: 5 5.18.8.2.4.: 6 5.18.8.2.4.: 7 5.18.8.2.4.: 8 5.18.8.2.4.! 9 5.18.8.2.4.!	Electrical Installations for PST No. 1"4		Sun 19/11/23	Thu 21/09/23								
4 474 5 475 6 476 7 477 8 478 9 479 0 480 11 481 12 482 13 483	45.18.8.2.4.: 55,18.8.2.4.: 65.18.8.2.4.: 75,18.8.2.4.: 85.18.8.2.4.! 95,18.8.2.4.!		150 days Fri 14/07/23	Sun 10/12/23	Fri 14/07/23	Sun 10/12/23		Sat 06/01/24	27 days 461		ME - D x 2~4 men		
5 475 6 476 7 477 8 478 9 479 9 479 0 480 1 481 2 482 3 483	5 5.18.8.2.4.: 6 5.18.8.2.4.: 7 5.18.8.2.4. 8 5.18.8.2.4.! 9 5.18.8.2.4.!	Installation of IV Switchboards DCT	260 days Sat 15/04/23	Sat 30/12/23	Sat 15/04/23	Sat 30/12/23	Sat 22/04/23	Sat 06/01/24	0 days 449	484			
6 476 7 477 8 478 9 479 0 480 11 481 12 482 13 483	6 5.18.8.2.4.: 7 5.18.8.2.4. 8 5.18.8.2.4.! 9 5.18.8.2.4.!	Installation of LV Switchboards, FS1	60 days Sat 15/04/23	Tue 13/06/23	Sat 15/04/23	Tue 13/06/23	Mon 22/05/23	Thu 20/07/23	30 days 443	477	LV - A x 4~6 men		
6 476 7 477 8 478 9 479 0 480 11 481 12 482 13 483	6 5.18.8.2.4.: 7 5.18.8.2.4. 8 5.18.8.2.4.! 9 5.18.8.2.4.!	Installation of PLC Panel, PST	60 days Thu 20/04/23	Sun 18/06/23	Thu 20/04/23	Sun 18/06/23	Mon 22/05/23	Thu 20/07/23	25 days 447	477	EE - A x 4~6 men		
7 477 8 478 9 479 0 480 1 481 2 482 3 483	7 5.18.8.2.4.4 8 5.18.8.2.4.! 9 5.18.8.2.4.(Installation of cable travs and cable containments, PST	90 days Sat 15/04/23	Thu 13/07/23	Sat 15/04/23	Thu 13/07/23	Sat 22/04/23	Thu 20/07/23	0 days	477	EE - A x 4~6 men		
8 478 9 479 0 480 1 481 2 482 3 483	8 5.18.8.2.4.! 9 5.18.8.2.4.(90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/23		Wed 18/10/23		479F5-30 days,482,480			
9 479 0 480 1 481 2 482 3 483	95.18.8.2.4.1	Cables laying and terminations, PST								479FF+30 days			
0 480 1 481 2 482 3 483		Tentative Civil Handover Date, LV cables draw pits from IW to PST	1 day Thu 20/07/23	Thu 20/07/23	Thu 20/07/23			Thu 07/12/23	24 days				
1 481 2 482 3 483		Energisation of LV Switchboards, PST	1 day Tue 12/09/23	Tue 12/09/23	Tue 12/09/23	Tue 12/09/23	Sat 06/01/24	Sat 06/01/24	109 days 477FS-30 d	1484	LV - A x 4~6 men		
2 482 3 483	0 5.18.8.2.4.	Site Acceptance Tests - Electrical aspects including voltage and cur	80 days Thu 12/10/23	Sat 30/12/23	Thu 12/10/23	Sat 30/12/23	Thu 19/10/23	Sat 06/01/24	2 days 477	355	LV - A x 4~6 men		
3 483	1 5.18.8.2.5	SCADA Systems, PST No. 1~4	60 days Thu 12/10/23	Sun 10/12/23	Thu 12/10/23	Sun 10/12/23	Fri 08/12/23	Mon 05/02/24	57 days				
3 483	2 5.18.8.2.5.:	Configuration of PLC System	45 days Thu 12/10/23	Sat 25/11/23	Thu 12/10/23	Sat 25/11/23	Fri 08/12/23	Sun 21/01/24	0 days 477	483	PLC - B x 1 man		
	3 5.18.8.2.5.:	Site Acceptance Test for PLC System at PST No. 1~4	15 days Sun 26/11/23	Sun 10/12/23	Sun 26/11/23		Mon 22/01/24	Mon 05/02/24	0 days 482	485FF,1282	PLC - A x 1 man		
4 404				Sun 14/01/24		Sun 14/01/24		Mon 22/01/24		Page 19			
	45.18.8.2.6	Site Acceptance Test for E&M Equip and Instrumentations calibration	15 edays Sat 30/12/23										
485	5 5.18.8.2.7	System Commissioning for E&M Equip at PST No, 1~4	15 days Mon 15/01/24	Mon 29/01/24		Mon 29/01/24		Mon 05/02/24	0 days 484,483FF				
486	6 5.18.8.2.8	Risk Allowances for Completion of Processing Plant at PST No. 1~4	7 edays Mon 29/01/24	Mon 05/02/24	Mon 29/01/24	Mon 05/02/24		Tue 13/02/24	2.63 edays 485	1278			
487	75.18.8.2.9	Building Services Installations for PST No. 1~4	150 days Fri 14/07/23	Sun 10/12/23	Fri 14/07/23	Sun 10/12/23	Sun 16/07/23	Mon 01/04/24	2 days 449FS+90 d	i .			
488	8 5.18.8.2.9.:	Mechanical Ventilation and Air Conditioning System, PST	90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/23	Sat 04/11/23	Thu 01/02/24	0 days	494	MVAC - B x 4~6 men		
489	9 5.18.8.2.9.:	Lighting and Power Distribution System, PST	90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23	Wed 11/10/23	Sat 04/11/23	Thu 01/02/24	0 days	494	BS - A x 4~6 men		
	0 5.18.8.2.9.	Plumbing Installation, PST	80 days Fri 14/07/23	Sun 01/10/23	Fri 14/07/23	Sun 01/10/23	Sun 16/07/23	Tue 03/10/23	0 days 1249	1251,494	Pb - B x 4~6 men		
		CCTV Installation (9 indoor + 2 outdoor Cameras), PST	60 days Fri 14/07/23	Mon 11/09/23	Fri 14/07/23		Mon 04/12/23	Thu 01/02/24	0 days 449FS+60 d	494,1281	BS - B x 4~6 men		
	15.18.8.2.9.						Tue 18/07/23	Tue 10/10/23	0 days	1202,1214,1215,494	FS - A x 4~6 men		
	2 5.18.8.2.9.!	Fire Services Installation, PST	85 days Fri 14/07/23	Fri 06/10/23	Fri 14/07/23						BS-Cx2~4 men		
93 493	3 5.18.8.2.9.0	Earthing and Lightning Protection System, PST	90 days Fri 14/07/23	Wed 11/10/23	Fri 14/07/23		Sat 04/11/23	Thu 01/02/24	0 days	494			
94 494	4 5.18.8.2.9.	Testing and Commissioning of Building Services Installations, PST	60 days Thu 12/10/23	Sun 10/12/23	Thu 12/10/23			Mon 01/04/24		C370FF	BS - C x 2~4 men		
95 49	95 5.19	Bioreactors No. 2A & 2B, Portion B-4 (PS 6B2.4)	1326 days Sat 15/08/20	Mon 01/04/24	Sat 15/08/20	Mon 01/04/24	Sat 15/08/20	Mon 01/04/24	0 days				11
96 490	6 5.19.1	Planned Key Date Completion Date - KD1A, BR 2A & 2B	0 days Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	0 days 530FF,531	ŧ			@ 30/10
	97 5.19.2	Planned Key Date Completion Date - KD1B, BR 2A & 2B	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 532FF				
		Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days Mon 12/07/21	Mon 12/07/21		1 Mon 12/07/21		Mon 12/07/21		T			
	985.19.3		0 days Mon 01/04/24	Mon 01/04/24		4 Mon 01/04/24						-	
	995.19.4	Planned Sectional Completion Date - Section 2, BR 2A & 2B								1			
00 50	00 5.19.5	Selection of Suppliers for major plant and materials for BR 2A & 2B	193 days Tue 01/09/20	Fri 12/03/21		Fri 12/03/21		Tue 22/06/21	102 days				
01 50	01 5,19.5.1	BR - pre-treatment fine screens (Marking Scheme Approach), EQT019	150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	0 days				
02 50	02 5.19.5.1.1	Submission for acceptance of purchasing package	60 days Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days	503			
03 50	03 5,19.5.1.2	Invitation of quotations for purchasing package	60 days Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days 502	504			
04 50	04 5.19.5.1.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days 503	533			≚
	05 5.19.5.2	BR - air diffusion system (Marking Scheme Approach), EQT017	180 days Tue 01/09/20	Sat 27/02/21	Tue 01/09/20	Sat 27/02/21	Tue 01/09/20	Sat 27/02/21	0 days				
	06 5.19.5.2.1	Submission for acceptance of purchasing package including proposed	90 days Tue 01/09/20	Sun 29/11/20	Tue 01/09/20	Sun 29/11/20	Tue 01/09/20	Sun 29/11/20	0 days	507			
20 50	00 3.13.3.2.1	marking scheme											
07 50	07 5.19.5.2.2	Invitation of quotations for purchasing package	60 days Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days 506	508			*
	08 5.19.5.2.3	Acceptance of conforming quotation (Completed)	30 days Frl 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	O days 507	533			
		BR - submersible mixers, C11, EQT020	150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	0 days				+++
	09 5,19.5.3									511		and a second	
510 51	10 5.19.5.3.1	Submission for acceptance of purchasing package	60 days Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days				
511 51	11 5.19.5.3.2	Invitation of quotations for purchasing package	60 days Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days 510	512			
512 51	12 5.19.5.3.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days 511	533			_ ∸
513 51	13 5.19.5.4	BR - mixed liquor return pumps, C11, EQT008	150 days Mon 14/09/20	Wed 10/02/21	Mon 14/09/20	Wed 10/02/21	Mon 14/09/20	Wed 10/02/21	0 days				•
	14 5.19.5.4.1	Submission for acceptance of purchasing package	60 days Mon 14/09/20	Thu 12/11/20	Mon 14/09/20	Thu 12/11/20	Mon 14/09/20	Thu 12/11/20	0 days	515			-
		Invitation of quotations for purchasing package	60 days Fri 13/11/20	Mon 11/01/21	Fri 13/11/20	Mon 11/01/21	Fri 13/11/20	Mon 11/01/21	0 days 514	516		and states (1)	-
	515 5.19.5.4.2			Wed 10/02/21	Tue 12/01/21	Wed 10/02/21		Wed 10/02/21	0 days 515	533			
516 53	516 5.19.5.4.3	Acceptance of conforming quotation (Completed)	30 days Tue 12/01/21										
517 53	517 5.19.5.5	BR - scum removal systems, C11, EQT021, EQT022	150 days Mon 14/09/20	Wed 10/02/21	Mon 14/09/20		Mon 14/09/20	Wed 10/02/21	0 days				
518 5	518 5.19.5.5.1	Submission for acceptance of purchasing package	60 days Mon 14/09/20	Thu 12/11/20	Mon 14/09/20	Thu 12/11/20	Mon 14/09/20	Thu 12/11/20	0 days	519			
519 5	519 5.19.5.5.2	Invitation of quotations for purchasing package	60 days Fri 13/11/20	Mon 11/01/21	Fri 13/11/20	Mon 11/01/21	Fri 13/11/20	Mon 11/01/21	0 days 518	520			
520 5	520 5.19.5.5.3	Acceptance of conforming quotation (Completed)	30 days Tue 12/01/21	Wed 10/02/21	Tue 12/01/21	Wed 10/02/21	Tue 12/01/21	Wed 10/02/21	0 days 519	533			
	521 5.19.5.6	BR – aeration blowers (Marking Scheme Approach), EQT039	180 days Mon 14/09/20	Fri 12/03/21	Mon 14/09/20	Fri 12/03/21	Mon 14/09/20	Fri 12/03/21	0 days				
	522 5.19.5.6.1	Submission for acceptance of purchasing package including proposed	90 days Mon 14/09/20	Sat 12/12/20	Mon 14/09/20		Mon 14/09/20	Sat 12/12/20	O days	523			
522 5	322 3.19.5.6.1	submission for acceptance of purchasing package including proposed marking scheme											
523 5	523 5.19.5.6.2	Invitation of quotations for purchasing package	60 days Sun 13/12/20	Wed 10/02/21	Sun 13/12/20	Wed 10/02/21	Sun 13/12/20	Wed 10/02/21	0 days 522	524	11) (čina sa na sa		±
		Acceptance of conforming quotation (Completed)	30 days Thu 11/02/21	Fri 12/03/21	Thu 11/02/21	Fri 12/03/21	Thu 11/02/21	Fri 12/03/21	0 days 523	533		ar Para da Carlo da C	
	524 5.19.5.6.3		150 days Thu 01/10/20	Sat 27/02/21	Thu 01/10/20		Thu 01/10/20	Tue 22/06/21	115 days				
525 5	525 5.19.5.7	BR - instrumentations, C11, EQT035-2	120 gays (hu 01/10/20	Jat 2//02/21	110 01/10/20	341 21/02/21	110 01/10/20	100 22/00/21					
		Task Milestone 🔶 Project S			Critical Split				Milestone (Actual) 🔸				
Bestwin	ise DE/2018/04	Milestone, Tentative Manual Summary Manual Summary	Summary Critical		Progress		Slack (Float) -		Slack				

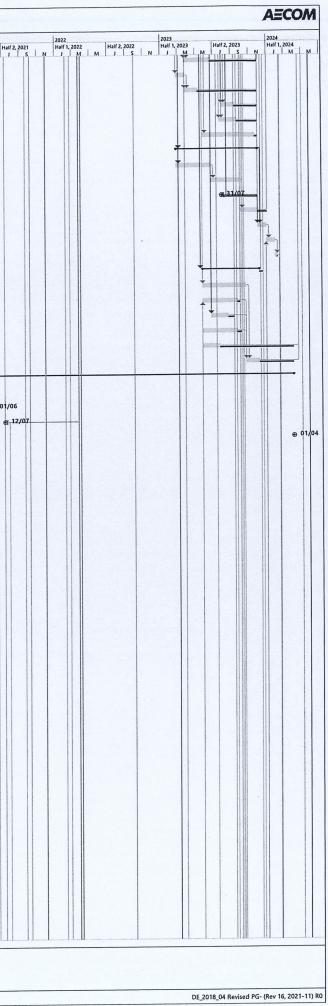


		artment			- I- I					orks for Sewage Treatment		1 last	Shidow Deels
ID	WBS Task	Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors	Resource Names		2, 2020
26	526 5.19.5.7.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Wed 24/03/21	0 days	527			H
	527 5.19.5.7.2	Invitation of quotations for purchasing package	60 days Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	Thu 25/03/21	Sun 23/05/21	0 days 526	528			
	528 5.19.5.7.3	Acceptance of conforming quotation	30 days Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	Mon 24/05/21	Tue 22/06/21	13 days 527	533			
			578 days Sat 15/08/20	Tue 15/03/22	Sat 15/08/20	Tue 15/03/22	Sat 15/08/20	Tue 15/03/22	0 days				+
	529 5.19.6	Design Submissions for BR 2A & 2B						Tue 13/10/20	0 days	496FF			44
30	530 5.19.6.1	Electrical schematic drawings for BR No. 2A & 2B	60 days Sat 15/08/20	Tue 13/10/20	Sat 15/08/20	Tue 13/10/20							
31	531 5.19.6.2	CDS080-3 - Civil and dimensional requirements drawings for BR 2A&2B up to +	55 days Tue 01/09/20	Sun 25/10/20	Tue 01/09/20	Sun 25/10/20	Tue 01/09/20	Sun 25/10/20	0 days	496FF			
32	532 5.19.6.3	CDS081-3 - Civil and dimensional requirements drawings for BR 2A & 2	281 days Fri 28/08/20	Fri 04/06/21	Fri 28/08/20	Fri 04/06/21	Fri 28/08/20	Fri 04/06/21	0 days	497FF			TT
33	533 5.19.6.4	CDS004 - Detailed Design for Bioreactor 2A and 2B	120 edays Fri 12/03/21	Sat 10/07/21	Fri 12/03/21	Sat 10/07/21	Fri 12/03/21	Mon 12/07/21	0.63 edays 504,508,51	7540,543,546,549,552,555			
	534 5.19.6.5	CDS023 - Detailed Design for Electrical Installations for BR No. 2A & 2B	159.38 edays Thu 07/10/21	Tue 15/03/22	Thu 07/10/21	Tue 15/03/22	Thu 07/10/21	Tue 15/03/22	0 edays 75,85,93,19	9-76,498FF,707			
		CDS034-3 - Detailed Design for Electrical Installations BS at BR No. 2A 8	100 edays Fri 12/03/21	Sun 20/06/21	Fri 12/03/21	Sun 20/06/21	Fri 12/03/21	Mon 12/07/21	22.38 edays 140	599,498FF,600			
	535 5.19.6.6						Mon 03/05/21	Mon 12/07/21	0.63 edays 71	693,498FF			
536	536 5.19.6.7	CDS025-3 - Detailed Design for LV Switchboards for BR 2A and 2B	60 edays Mon 03/05/21	Frì 02/07/21		Fri 02/07/21			La ria mandana anti-				1+L
537	537 5.19.6.8	CDS050-3 - Detailed Design for Lifting Appliances - BR 2A & 2B	120 edays Thu 01/10/20	Fri 29/01/21	Thu 01/10/20	Fri 29/01/21	Thu 01/10/20	Fri 29/01/21	0 edays 120	567,498FF			
538	538 5.19.7	Manufacturing and Delivery of Plant & Materials	740 days Fri 29/01/21	Tue 07/02/23	Fri 29/01/21	Tue 07/02/23	Wed 01/06/22	Mon 23/10/23	258 days				
539	539 5.19.7.1	Pre-treatment Fine Screens, EQT019	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21	Tue 07/02/23	Mon 31/10/22	Fri 11/08/23	185 days				
540	540 5.19.7.1.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/22	2 Mon 31/10/22	Tue 27/06/23	292 days 533	541			
	541 5.19.7.1.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	Wed 28/06/23	Fri 11/08/23	16 days 540,57055	6583			
			577 days Sun 11/07/21			Tue 07/02/23		Tue 25/07/23	168 days				
	542 5.19.7.2	Air Diffusion System, EQT017		Tue 07/02/23						544			
543	543 5.19.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22		Mon 07/03/22		Sat 10/06/23	292 days 533				
544	544 5.19.7.2.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23		Tue 07/02/23		Tue 25/07/23	83 days 543,57055	6584			
545	545 5.19.7.3	Submersible Mixer, EQT020	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21	Tue 07/02/23	Mon 28/11/22	Fri 08/09/23	213 days				
546	546 5.19.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/22	2 Mon 28/11/22	Tue 25/07/23	292 days 533	547			
547	547 5.19.7.3.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	Wed 26/07/23	Fri 08/09/23	44 days 546,57055	6585			
			577 days Sun 11/07/21	Tue 07/02/23			Tue 13/12/22		228 days				
548	548 5.19.7.4	Mixed Liquor Return Pumps, EQTOOB					2 Tue 13/12/22	Wed 09/08/23	292 days 533	550			
549	549 5.19.7.4.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22									
550	550 5.19.7.4.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	Thu 10/08/23	Sat 23/09/23	16 days 549,57055	-6586		-	
551	551 5.19.7.5	Sum Removal System, EQT021, EQT022	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21	Tue 07/02/23	Thu 12/01/23	Mon 23/10/23	258 days				
552	552 5.19.7.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/22	2 Thu 12/01/23	Fri 08/09/23	292 days 533	553			
553	553 5.19.7.5.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	Sat 09/09/23	Mon 23/10/23	46 days 552,57055	-6587			
	554 5.19.7.6	Aeration Blowers, EQT039	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21	Tue 07/02/23	Thu 12/01/23	Mon 23/10/23	258 days				
554				Mon 07/03/22			2 Thu 12/01/23	Fri 08/09/23	292 days 533	556			
555	555 5.19.7.6.1	Manufacturing and Factory Acceptance Test of Plant (to be witnesse										-	
556	556 5.19.7.6.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23		Tue 07/02/23		Mon 23/10/23	173 days 555,57055			-	
557	557 5.19.7.7	Instrumentations, EQT035-2	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21		Wed 28/12/22		243 days				
558	558 5.19.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/2	2 Wed 28/12/22	Thu 24/08/23	292 days 533	559			
559	559 5.19.7.7.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	Fri 25/08/23	Sun 08/10/23	166 days 558,57055	-6589			
560	560 5.19.7.8	Stoplogs and Penstocks, EQT013	577 days Sun 11/07/21	Tue 07/02/23	Sun 11/07/21	Tue 07/02/23	Wed 01/06/22	Sun 12/03/23	33 days				
561		Manufacturing and Factory Acceptance Test of Plant	240 days Sun 11/07/21	Mon 07/03/22	Sun 11/07/21	Mon 07/03/2	2 Wed 01/06/22	Thu 26/01/23	292 days 533	562			
	561 5.19.7.8.1		45 days Sun 25/12/22	Tue 07/02/23		Tue 07/02/23		Sun 12/03/23	16 days 561,57055	-6581			
562	562 5.19.7.8.2	Shipping and Delivery of Plant to site										-	
563	563 5.19.7.9	Pipework, Valves and Electric Actuators, EQT036, EQT042 (Rev. 11)	359 days Mon 14/02/22	Tue 07/02/23			3 Sun 31/07/22		93 days 56,63				
564	564 5.19.7.9.1	Manufacturing and Factory Acceptance Test of Plant	240 days Mon 14/02/22	Tue 11/10/22	Mon 14/02/2	2 Tue 11/10/22	Sun 31/07/22	Mon 27/03/23	74 days 533	565			
565	565 5.19.7.9.2	Shipping and Delivery of Plant to site	45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22	Tue 07/02/23	Tue 28/03/23	Thu 11/05/23	16 days 564,57055	-6582			
566	566 5.19.7.10	Lifting Appliances	740 days Frl 29/01/21	Tue 07/02/23	Fri 29/01/21	Tue 07/02/23	Wed 07/09/22	Fri 19/05/23	101 days				
567	567 5.19.7.10.1	Manufacturing and Factory Acceptance Test of Plant	210 days Fri 29/01/21	Thu 26/08/21	Fri 29/01/21	Thu 26/08/21	Wed 07/09/22	Tue 04/04/23	485 days 537	568			
			45 days Sun 25/12/22	Tue 07/02/23	Sun 25/12/22		Wed 05/04/23		16 days 567,57055	-6574			
568	568 5.19.7.10.2	Shipping and Delivery of Plant to site					24 Thu 23/02/23		0 days	1			
569	569 5.19.8	Site Installation Work	348 days Thu 23/02/23	Mon 05/02/24	Thu 23/02/2					574 590 501 50055 CO		-	
570	570 5.19.8.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)	1 day Thu 23/02/23	Thu 23/02/23	Thu 23/02/23		3 Thu 23/02/23		0 days	574,580,591,599FS+90 e			
571	571 5.19.8.2	Tentative Civil Handover Date, LV cables draw pits from MFB2 to BR2	1 day Thu 01/06/23	Thu 01/06/23	Thu 01/06/23	Thu 01/06/23	Tue 07/11/23	Tue 07/11/23	30 days	594FF+30 days			
572	572 5.19.8.3	Commencement of E&M Installation at Bioreactor No. 2A & 2B	347 days Fri 24/02/23	Mon 05/02/24	Fri 24/02/23	Mon 05/02/2	24 Fri 24/02/23	Mon 01/04/24	0 days 570				
573	573 5.19.8.3.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, V	7 days Fri 24/02/23	Thu 02/03/23	Fri 24/02/23	Thu 02/03/23	B Fri 24/02/23	Thu 02/03/23	0 days 570				
			67 days Fri 24/02/23	Mon 01/05/23	Fri 24/02/23		23 Sat 20/05/23	Tue 25/07/23	85 days 570,568				
574	574 5.19.8.3.2	Installation of Lifting Appliances at BR 2A & 2B					Sat 20/05/23	Sun 18/06/23	0 days	577,578,579	LA - A x 4~6 men	-	
575	575 5.19.8.3.2.2	Coping Level EOT Crane LA-03-01 SWL 5t	30 days Fri 24/02/23	Sat 25/03/23	Fri 24/02/23						LA - B x 4~6 men		
576	576 5.19.8.3.2.:	Coping Level EOT Crane LA-03-02 SWL St	30 days Fri 24/02/23	Sat 25/03/23	Fri 24/02/23		Sat 20/05/23	Sun 18/06/23	0 days	577,578,579		Array .	
577	577 5.19.8.3.2.:	Coping Level EOT Crane LA-03-03 SWL 5t	30 days Sun 26/03/23	Mon 24/04/23	Sun 26/03/23	8 Mon 24/04/2	23 Mon 19/06/23	Tue 18/07/23	0 days 575,576	579	LA - A x 4~6 men		
578	5785.19.8.3.2.4	Coping Level Mobile A-frame LA-03-04 SWL 4t	7 days Sun 26/03/23	Sat 01/04/23	Sun 26/03/23	3 Sat 01/04/23	Wed 12/07/23	Tue 18/07/23	23 days 575,576	579	LA - B x 4~6 men		
579	579 5.19.8.3.2.!	T&C, Loading Test for Lifting Appliances at Bioreactor No. 2A & 2	B 7 days Tue 25/04/23	Mon 01/05/23	Tue 25/04/2	Mon 01/05/2	23 Wed 19/07/23	Tue 25/07/23	0 days 575,576,5	77584	LA - B x 4~6 men		
	1	Mechanical Installations for E&M Equip at BR 2A & 2B	270 days Fri 24/02/23	Mon 20/11/23	Fri 24/02/23		23 Mon 13/03/23	Thu 07/12/23	10 days 570	596		Careford T	
580	580 5.19.8.3.3		1	Wed 24/05/23	Fri 24/02/23		23 Mon 13/03/23		0 days 562	590	ME - E x 4~6 men		
581	581 5.19.8.3.3.:	Installation of penstocks and stoplogs (Penstocks 8nos, Stoplogs									ME - Cx 4~6 men		
582	582 5.19.8.3.3.	Installation of pipework and valves, EQT036	150 days Fri 24/02/23	Sun 23/07/23	Fri 24/02/23		3 Fri 12/05/23	Sun 08/10/23	0 days 565	589			
583	583 5.19.8.3.3.:	Installation of pre-treatment fine screens (x4)	28 days Fri 24/02/23	Thu 23/03/23	Fri 24/02/23	Thu 23/03/23	3 Sat 12/08/23	Fri 08/09/23	0 days 541	585	ME - A x 4~6 men		
		Installation of air diffusion system (x2), EQT017	90 days Tue 02/05/23	Sun 30/07/23	Tue 02/05/2	Sun 30/07/23	3 Wed 26/07/23	Mon 23/10/23	0 days 579,544	588	ME - D x 2~4 men		

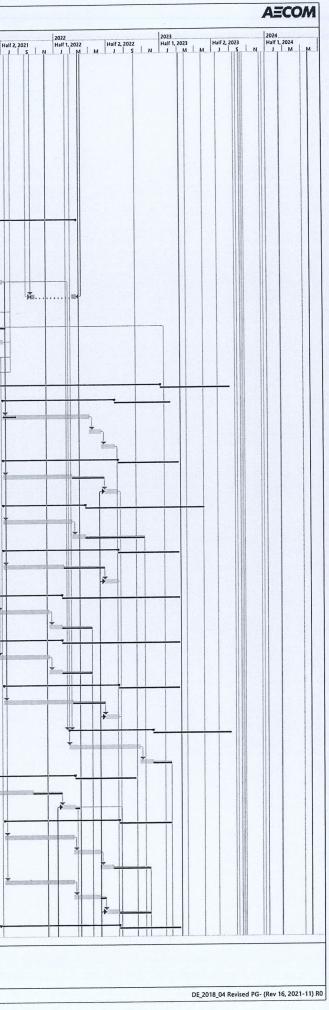
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ID	WBS Tas	k Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors	Resource Names		2021 If 2, 2020 Half
	585 5.19.8.3.3.!	Installation of submersible mixers (x16), EQT020	90 days Fri 24/03/23	Wed 21/06/23	Fri 24/03/23	Wed 21/06/23	Sat 09/09/23	Thu 07/12/23	162 days 583,547	596	ME - B x 4~6 men		
	586 5.19.8.3.3.	Installation of mixed Ilguor return pumps (x6), EQTOOB	30 days Fri 24/02/23	Sat 25/03/23	Fri 24/02/23	Sat 25/03/23		Mon 23/10/23	0 days 550	587	ME - A x 4~6 men		
-			45 days Sun 26/03/23	Tue 09/05/23	Sun 26/03/23			Thu 07/12/23		596	ME - B x 4~6 men		
	587 5.19.8.3.3.	Installation of scum removal systems (x2), EQT022				Wed 13/09/23		Thu 07/12/23		596	ME - D x 2~4 men		
	588 5.19.8.3.3.1	Installation of aeration blowers (x4), EQT039	45 days Mon 31/07/23	Wed 13/09/23							ME - D x 2~4 men		
9 5	589 5.19.8.3.3.!	Installation of instrumentations, EQT035-2	60 days Mon 24/07/23	Thu 21/09/23			Mon 09/10/23	Thu 07/12/23		596			
0 5	590 5.19.8.3.3.:	Site Acceptance Tests - mechanical aspects including alignment an	180 days Thu 25/05/23	Mon 20/11/23	Thu 25/05/23	Mon 20/11/23		Thu 07/12/23	10 days 581	596	ME - D x 2~4 men		
1 !	591 5.19.8.3.4	Electrical Installations for E&M Equip at BR 2A & 2B	280 days Fri 24/02/23	Thu 30/11/23	Fri 24/02/23	Thu 30/11/23	Mon 27/03/23	Sat 06/01/24	0 days 570	596			
2 :	592 5.19.8.3.4.:	Installation of cable trays and cable containments	120 days Fri 24/02/23	Fri 23/06/23	Fri 24/02/23	Fri 23/06/23	Mon 27/03/23	Mon 24/07/23	0 days 570	593	EE - A x 4~6 men		
3 3	593 5.19.8.3.4.:	Cables laying and terminations	100 days Sat 24/06/23	Sun 01/10/23	Sat 24/06/23	Sun 01/10/23	Tue 25/07/23	Wed 01/11/23	0 days 592	595,768	EE - C x 4~6 men		
	594 5.19.8.3.4.:	Energisation of LV Switchboards, BR2	1 day Mon 31/07/23	Mon 31/07/23	Mon 31/07/23	Mon 31/07/23	Thu 07/12/23	Thu 07/12/23	122 days 571FF+30 d	1596	LV - A x 4~6 men		
_	595 5.19.8.3.4.	Site Acceptance Tests - Electrical aspects including voltage and cur	60 days Mon 02/10/23	Thu 30/11/23	Mon 02/10/23	Thu 30/11/23	Wed 08/11/23	Sat 06/01/24	32 days 593	355	LV - A x 4~6 men		
_			30 edays Thu 30/11/23	Sat 30/12/23		Sat 30/12/23		Sun 07/01/24	0.63 edays 580,585,58	7597			
	596 5.19.8.3.5	Site Acceptance Test for E&M Equip at BR 2A & 2B				Mon 29/01/24		Mon 05/02/24	0 days 596,770				
	597 5.19.8.3.6	System Commissioning for E&M Equip at BR 2A & 2B	30 days Sun 31/12/23	Mon 29/01/24						1278			
8	5985.19.8.3.7	Risk Allowances for Completion of Processing Plant at BR 2A & 2B	7 edays Mon 29/01/24	Mon 05/02/24		Mon 05/02/24		Tue 13/02/24	2.63 edays 597				
9	599 5.19.8.3.8	Building Services Installations for BR 2A & 2B	195 days Thu 25/05/23	Tue 05/12/23		Tue 05/12/23		Mon 01/04/24	12 days 570FS+90 e				
00	600 5,19,8,3.8.;	Lighting and Power Distribution System, BR2	150 days Thu 25/05/23	Sat 21/10/23	Thu 25/05/23	Sat 21/10/23	Wed 20/09/23	Fri 16/02/24	0 days 535	605	BS - A x 4~6 men		
01	601 5.19.8.3.8.:	Plumbing Installation, BR2	120 days Thu 25/05/23	Thu 21/09/23	Thu 25/05/23	Thu 21/09/23	Tue 06/06/23	Tue 03/10/23	10 days 1249	1251,605	Pb - A x 4~6 men		
02	602 5.19.8.3.8.:	CCTV Installation (7 indoor + 2 outdoor Cameras), BR2	60 days Sat 24/06/23	Tue 22/08/23	Sat 24/06/23	Tue 22/08/23	Tue 19/12/23	Fri 16/02/24	20 days 570FS+120	¢605,1281	BS - B x 4~6 men		
03	603 5.19.8.3.8.4	Fire Services Installation, BR2	120 days Thu 25/05/23	Thu 21/09/23	Thu 25/05/23	Thu 21/09/23	Tue 13/06/23	Tue 10/10/23	15 days	1202,1214,1215,605	FS - B x 4~6 men		
	604 5.19.8.3.8.!	Lightning Protection System, BR2	60 days Thu 25/05/23	Sun 23/07/23	Thu 25/05/23	Sun 23/07/23	Fri 02/02/24	Mon 01/04/24	253 days	499FF	BS - C x 2~4 men	ALC FLOW	
	605 5.19.8.3.8.	Testing and Commissioning of Building Services Installations, BR2	45 days Sun 22/10/23	Tue 05/12/23	Sun 22/10/23			Mon 01/04/24	118 days 600,601,60	2499FF	B5 - C x 2~4 men		
			1320 days Fri 21/08/20	Mon 01/04/24	Fri 21/08/20	Mon 01/04/24		Mon 01/04/24	0 days				+
06	606 5.20	Membrane Facilities Building, Portion B-5 (P5 6B.2.4)					Fri 30/10/20	Fri 30/10/20	0 days 653FF,654	-F			@_30/10
	607 5.20.1	Planned Key Date Completion Date - KD1A, MFB No. 2	0 days Fri 30/10/20	Fri 30/10/20	Fri 30/10/20	Fri 30/10/20			and a second a second of the second of the				
08	608 5.20.2	Planned Key Date Completion Date - KD1B, MFB No. 2	0 days Tue 01/06/21	Tue 01/06/21		Tue 01/06/21		Tue 01/06/21	0 days 655FF				
09	609 5.20.3	Planned Sectional Completion Date - Section 1, MFB No. 2	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	0 days 656FF,657I	•			
10	610 5.20.4	Planned Sectional Completion Date - Section 2, MFB No. 2	0 days Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	0 days				
11	611 5.20.5	Selection of Suppliers for major plant and materials for MFB	224 days Tue 01/09/20	Mon 12/04/21	Tue 01/09/20	Mon 12/04/21	L Tue 01/09/20	Tue 15/06/21	64 days				
12	612 5.20.5.1	MFS - hollow fibre membrane modules (Marking Scheme Approach), ref.	150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	0 days				
		EQT023											
13	613 5.20.5.1.1	Submission for acceptance of purchasing package including proposed marking scheme	60 days Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	0 days	614			
			60 h	Tue 20/12/20	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days 613	615			
14	614 5.20.5.1.2	Invitation of quotations for purchasing package	60 days Sat 31/10/20	Tue 29/12/20	Sat 31/10/20					656		August and Au	
15	615 5.20.5.1.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20		Wed 30/12/20	Thu 28/01/21	O days 614	030			
16	616 5.20.5.2	MFS - air scour blowers, C11, ref. EQT040	150 days Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	Tue 01/09/20	Thu 28/01/21	0 days				
17	617 5.20.5.2.1	Submission for acceptance of purchasing package	60 days Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Fri 30/10/20	Tue 01/09/20	Frl 30/10/20	O days	618			
518	618 5.20.5.2.2	Invitation of quotations for purchasing package	60 days Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	Sat 31/10/20	Tue 29/12/20	0 days 617	619			
519	619 5.20.5.2.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days 618	658			
520	620 5.20,5.3	MFS - permeate pumps, C11, ref. EQT024	180 days Tue 01/09/20	Sat 27/02/21	Tue 01/09/20	Sat 27/02/21	Tue 01/09/20	Sat 27/02/21	0 days				
521	621 5.20.5.3.1	Submission for acceptance of purchasing package	90 days Tue 01/09/20	Sun 29/11/20	Tue 01/09/20	Sun 29/11/20	Tue 01/09/20	Sun 29/11/20	0 days	622			
522	622 5.20.5.3.2	Invitation of quotations for purchasing package	60 days Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days 621	623			×
	623 5.20.5.3.3	Acceptance of conforming quotation (Completed)	30 days Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days 622	656			
523			120 days Tue 15/09/20	Tue 12/01/21	Tue 15/09/20		Tue 15/09/20	Tue 12/01/21	0 days			and interest of	
524	624 5.20.5.4	MFS - compressed air system, C11, ref. EQT029						Fri 13/11/20	0 days	626			
625	625 5.20.5.4.1	Submission for acceptance of purchasing package	60 days Tue 15/09/20	Fri 13/11/20	Tue 15/09/20	Fri 13/11/20	Tue 15/09/20			1		-	×
626	626 5.20.5.4.2	Invitation of quotations for purchasing package	30 days Sat 14/11/20	Sun 13/12/20	Sat 14/11/20	Sun 13/12/20	Sat 14/11/20	Sun 13/12/20	0 days 625	627		(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
627	627 5.20.5.4.3	Acceptance of conforming quotation (Completed)	30 days Mon 14/12/20	Tue 12/01/21	Mon 14/12/20	Tue 12/01/21	Mon 14/12/20	Tue 12/01/21	0 days 626	658		al-sector and a sector and a se	
628	628 5.20.5.5	MFS - chemical storage tanks, C11, ref. EQT025	120 days Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	0 days				
629	629 5.20.5.5.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	630			† ††
630	630 5.20,5.5.2	Invitation of quotations for purchasing package	30 days Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 629	631			
631	631 5.20.5.5.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	Wed 30/12/20	Thu 28/01/21	0 days 630	658			1 ±
632	632 5.20.5.6	MFS - chemical dosing pumps, C11, ref. EQT026	120 days Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	0 days			-	
		Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20		Thu 01/10/20	Sun 29/11/20	0 days 2,30	634			++
633	633 5.20.5.6.1				Mon 30/11/20		Mon 30/11/20	Tue 29/12/20	0 days 633	635			-
634	634 5.20.5.6.2	Invitation of quotations for purchasing package	30 days Mon 30/11/20	Tue 29/12/20						658		decision (pr	+
635	635 5.20.5.6.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20		Wed 30/12/20	Thu 28/01/21	0 days 634	020			
636	636 5.20.5.7	MFS - return activated sludge pumps (Marking Scheme Approach), ref. EQT010	180 days Thu 01/10/20	Mon 29/03/21	Thu 01/10/20	Mon 29/03/21	Thu 01/10/20	Mon 29/03/21	0 days				
			no Jaw 71 - o 1 / o ho	Tue 30/12/20	Thu 01/10/20	Tue 29/12/20	Thu 01/10/20	Tue 29/12/20	0 days	638			
637	637 5.20.5.7.1	Submission for acceptance of purchasing package	90 days Thu 01/10/20	Tue 29/12/20									-
638	638 5.20.5.7.2	Invitation of quotations for purchasing package	60 days Wed 30/12/20	Sat 27/02/21	Wed 30/12/20		Wed 30/12/20	Sat 27/02/21	0 days 637	639			
639	639 5.20.5.7.3	Acceptance of conforming quotation (Completed)	30 days Sun 28/02/21	Mon 29/03/21	Sun 28/02/21	Mon 29/03/21	Sun 28/02/21	Mon 29/03/21	0 days 638	656			
640	640 5.20.5.8	MFS - membrane tank drain pumps, C11, ref. EQT009	180 days Tue 15/09/20	Sat 13/03/21	Tue 15/09/20	Sat 13/03/21	Tue 15/09/20	Sat 13/03/21	0 days				
641	641 5.20.5.8.1	Submission for acceptance of purchasing package	90 days Tue 15/09/20	Sun 13/12/20	Tue 15/09/20	Sun 13/12/20	Tue 15/09/20	Sun 13/12/20	0 days	642			
	L		I										
-			iummary late Summary Critical		Critical Split		Manual Progress		Milestone (Actual) *				
	stwise	Milestone, Tentative 🖲 Summary Manual											



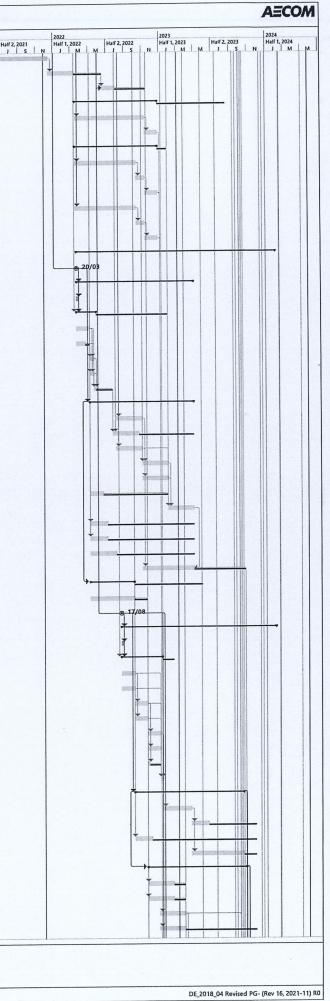
			Duration between Tools Chart	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessor		Resource Names	2020		Contraction of the second	2021
ID	WBS Tas	k Name	Duration between Task Start and Finish	rinisii	cony Start	Carly Fillish			reuecessor:			Half 1	1, 2020 Hall	If 2, 2020 J S N	Half 1, 2
-	642 5.20.5.8.2	Invitation of quotations for purchasing package	60 days Mon 14/12/20	Thu 11/02/21	Mon 14/12/20	Thu 11/02/21	Mon 14/12/20	Thu 11/02/21	0 days 641	643					<u> </u>
-	643 5.20.5.8.3	Acceptance of conforming quotation (Completed)	30 days Frl 12/02/21	Sat 13/03/21	Fri 12/02/21	Sat 13/03/21	Fri 12/02/21	Sat 13/03/21	0 days 642	656					Ť
-	644 5.20.5.9	Plant Service Water System - booster pumps, C11, ref. EQT030	180 days Thu 15/10/20	Mon 12/04/21	Thu 15/10/20	Mon 12/04/21	. Thu 15/10/20	Mon 12/04/21	0 days						
	645 5.20.5.9.1	Submission for acceptance of purchasing package	90 days Thu 15/10/20	Tue 12/01/21	Thu 15/10/20	Tue 12/01/21	Thu 15/10/20	Tue 12/01/21	0 days	646					<u> </u>
	646 5.20.5.9.2	Invitation of quotations for purchasing package	60 days Wed 13/01/21	Sat 13/03/21	Wed 13/01/21	Sat 13/03/21	Wed 13/01/21	Sat 13/03/21	0 days 645	647					*
	647 5.20.5.9.3	Acceptance of conforming quotation (Completed)	30 days Sun 14/03/21	Mon 12/04/21		Mon 12/04/21		Mon 12/04/21	0 days 646	656					
			120 days Thu 01/10/20	Thu 28/01/21		Thu 28/01/21		Tue 15/06/21	138 days						
8	648 5.20.5.10	Plant Service Water System - hydro-pneumatic pressure tanks, C11, ref. EQT030	120 0843 110 01/ 10/20	1110 207 02722	1110 02/20/20										
			60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Fri 16/04/21	0 days	650					η
	649 5.20.5.10.1	Submission for acceptance of purchasing package						Sun 16/05/21	0 days 649	651				1	±.
	650 5.20.5.10.2	Invitation of quotations for purchasing package	30 days Mon 30/11/20	Tue 29/12/20		Tue 29/12/20									+
51	651 5.20.5.10.3	Acceptance of conforming quotation	30 days Wed 30/12/20	Thu 28/01/21	Wed 30/12/20		Mon 17/05/21		74 days 650	656					
52	652 5.20.6	Design Submissions for MFB No. 2	572 days Fri 21/08/20	Tue 15/03/22	Fri 21/08/20	Tue 15/03/22	Fri 21/08/20	Tue 15/03/22	0 days						
3	653 5.20.6.1	Electrical schematic drawings for MFB No. 2	60 days Fri 21/08/20	Mon 19/10/20	Fri 21/08/20	Mon 19/10/20	Fri 21/08/20	Mon 19/10/20	0 days	607FF				111	
54	654 5.20.6.2	CDS080-4 - Civil and dimensional requirements drawigns for MFB no. 2 up to +	30 days Tue 01/09/20	Wed 30/09/20	Tue 01/09/20	Wed 30/09/20	Tue 01/09/20	Wed 30/09/20	0 days	607FF					
55	655 5.20.6.3	CDS081-4 - Civil and dimensional requirements drawings for MFB No. 2	210 days Fri 28/08/20	Thu 25/03/21	Fri 28/08/20	Thu 25/03/21	Fri 28/08/20	Thu 25/03/21	0 days	608FF					
56		CDS002 - Ottailed Design for Membrane Filtration System, Pumps and	80 edays Mon 12/04/21	Thu 01/07/21		Thu 01/07/21	Mon 12/04/21	Mon 12/07/21	0.63 edays 615,623,6	35665,669,672,675,684,68	7	11111 - Const			
1	6565.20.6.4					Tue 15/03/22		Tue 15/03/22		89.76,704,710,609FF					
57	657 5.20.6.5	CDS024 - Detailed Design for Electrical Installations for MFB No. 2	159.38 edays Thu 07/10/21	Tue 15/03/22											-
58	6585.20.6.6	CDS008 - Detailed Design for Membrane Filtration System, Air Blowers,	100 edays Mon 01/03/21	Wed 09/06/21			1 Mon 01/03/21		0.63 edays 619,627,6						
59	659 5.20.6.7	CDS034-4 - Detailed Design for Electrical Installations BS at MFB No. 2	100 edays Fri 12/03/21	Sun 20/06/21	Fri 12/03/21	Sun 20/06/21		Mon 12/07/21		775,609FF					
60	660 5.20.6.8	CDS025-4 - Detailed Design for LV Switchboards for Membrane Filtratic	60 edays Mon 03/05/21	Fri 02/07/21	Mon 03/05/21	Fri 02/07/21	Mon 03/05/21	Mon 12/07/21	0.63 edays 71	696,609FF					
61	661 5.20.6.9	CDS026-2 - Detailed Design for HV Switchboards for MFB No. 2	60 edays Sun 18/04/21	Thu 17/06/21	Sun 18/04/21	Thu 17/06/21	Sun 18/04/21	Mon 12/07/21	0.63 edays 67	609FF,700					
62	662 5.20.6.10	CDS050-4 - Detailed Design for Lifting Appliances - MFB No. 2	150 edays Thu 15/10/20	Sun 14/03/21	Thu 15/10/20	Sun 14/03/21	Thu 15/10/20	Sun 14/03/21	0 edays 120	690,609FF				*	
53	663 5.20.7	Manufacturing and Delivery of Plant & Materials	652 days Sun 14/03/21	Sun 25/12/22	Sun 14/03/21	Sun 25/12/22	Fri 02/07/21	Thu 24/08/23	242 days	1					
			385 days Fri 02/07/21	Thu 21/07/22	Fri 02/07/21	Thu 21/07/22		Sat 28/01/23	191 days						
64	664 5.20.7.1	Hollow Fibre Membrane Modules, EQT023						Fri 04/11/22	0 days 656	666					
65	665 5.20.7.1.1	MFS - Manufacturing of Plant	300 days Fri 02/07/21	Wed 27/04/22	Fri 02/07/21		2 Fri 02/07/21								
66	666 5.20.7.1.2	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	40 days Thu 28/04/22	Mon 06/06/22	Thu 28/04/22	Mon 06/06/22	2 Sat 05/11/22	Wed 14/12/22	0 days 665	667					
67	667 5.20.7.1.3	MFS - Shipping and Delivery of Plant to site	45 days Tue 07/06/22	Thu 21/07/22	Tue 07/06/22	Thu 21/07/22	Thu 15/12/22	Sat 28/01/23	0 days 666	725					
68	668 5.20.7.2	Air Scour Blowers, EQT040	396 days Fri 02/07/21	Mon 01/08/22	Fri 02/07/21	Mon 01/08/23	2 Tue 17/05/22	Sat 25/02/23	208 days						
69	669 5.20.7.2.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21	Sat 26/02/22	Fri 02/07/21	Sat 26/02/22	Tue 17/05/22	Wed 11/01/23	111 days 656	670					
570	670 5.20.7.2.2	Shipping and Delivery of Plant to site	45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/23	2 Thu 12/01/23	Sat 25/02/23	0 days 669,73755	5-6726					
			285 days Fri 02/07/21	Tue 12/04/22	Fri 02/07/21	Tue 17/04/72	Mon 15/08/22	Fri 26/05/23	409 days						
571	6715.20.7.3	Permeate Pump, EQT024					Mon 15/08/22		0 days 656	673					
672	672 5.20.7.3.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21	Sat 26/02/22	Fri 02/07/21					727					
673	673 5.20.7.3.2	Shipping and Delivery of Plant to site	45 days Sun 27/02/22	Tue 12/04/22	Sun 27/02/22		Wed 12/04/23		201 days 672						
574	674 5.20.7.4	Compressed Air System, EQT029	396 days Fri 02/07/21	Mon 01/08/22	Fri 02/07/21		2 Thu 16/06/22		208 days						
675	675 5.20.7.4.1	Manufacturing and Factory Acceptance Test of Plant	210 days Fri 02/07/21	Thu 27/01/22	Fri 02/07/21	Thu 27/01/22	Thu 16/06/22	Wed 11/01/23	141 days 656	676					
676	676 5.20.7.4.2	Shipping and Delivery of Plant to site	45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/27	2 Thu 12/01/23	Sat 25/02/23	0 days 675,73755	5-6726					
677	677 5.20.7.5	Chemical Storage Tanks, EQT025	225 days Thu 10/06/21	Thu 20/01/22	Thu 10/06/21	Thu 20/01/22	Mon 18/07/22	2 Mon 27/02/23	403 days						
678	678 5.20.7.5.1	Manufacturing and Factory Acceptance Test of Plant	180 days Thu 10/06/21	Mon 06/12/21	Thu 10/06/21	Mon 06/12/2	1 Mon 18/07/22	Fri 13/01/23	0 days 658	679					
			45 days Tue 07/12/21	Thu 20/01/22	Tue 07/12/21	Thu 20/01/22	Sat 14/01/23	Mon 27/02/23	104 days 678	731					
679	679 5.20.7.5.2	Shipping and Delivery of Plant to site						2 Mon 27/02/23							
680	680 5.20.7.6	Chemical Dosing Pumps, EQT026	225 days Thu 10/06/21	Thu 20/01/22						687					1
681	681 5.20.7.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Thu 10/06/21	Mon 06/12/21			1 Mon 18/07/22		0 days 658	682					
682	682 5.20.7.6.2	Shipping and Delivery of Plant to site	45 days Tue 07/12/21	Thu 20/01/22	Tue 07/12/21	Thu 20/01/22	Sat 14/01/23	Mon 27/02/23	104 days 681	732					
683	683 5.20.7.7	Stoplogs and Penstocks, EQT013	396 days Fri 02/07/21	Mon 01/08/22	Fri 02/07/21	Mon 01/08/2	22 Tue 17/05/22	Sat 25/02/23	208 days						
684	684 5.20.7.7.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 02/07/21	Sat 26/02/22	Fri 02/07/21	Sat 26/02/22	Tue 17/05/22	Wed 11/01/23	111 days 656	685					
685	685 5.20.7.7.2	Shipping and Delivery of Plant to site	45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/2	2 Thu 12/01/23	Sat 25/02/23	0 days 684,7375	5-6724		Construction of the			
		Pipework, Valves and Electric Actuators, EQT036 (Rev. 11)	285 days Mon 14/02/22	Fri 25/11/22			Sun 13/11/22	Thu 24/08/23	272 days 56,63						
686	686 5.20.7.8			Tue 11/10/22			2 Sun 13/11/22			688					
687	687 5.20.7.8.1	Manufacturing and Factory Acceptance Test of Plant	240 days Mon 14/02/22							730					
688	688 5.20.7.8.2	Shipping and Delivery of Plant to site	45 days Wed 12/10/22	Fri 25/11/22			Tue 11/07/23		64 days 687						
689	689 5.20.7.9	Lifting Appliances	356 days Sun 14/03/21	Fri 04/03/22	Sun 14/03/23	Fri 04/03/22	Sat 15/01/22								
690	690 5.20.7.9.1	Manufacturing and Factory Acceptance Test of Plant	210 days Sun 14/03/21	Sat 09/10/21	Sun 14/03/21	Sat 09/10/21	Sat 15/01/22	Fri 12/08/22	101 days 662	691					
691	691 5.20.7.9.2	Shipping and Delivery of Plant to site	45 days Wed 19/01/22	Fri 04/03/22	Wed 19/01/2	2 Fri 04/03/22	Sat 13/08/22	Mon 26/09/22	16 days 690,7145	5-6717,740					
692	692 5.20.7.10	LV Switchboards	395 days Sat 03/07/21	Mon 01/08/22	Sat 03/07/21	Mon 01/08/2	22 Mon 17/01/22	2 Thu 26/01/23	178 days						
	693 5.20.7.10.1		240 days 5at 03/07/21	Sun 27/02/22	Sat 03/07/21	Sun 27/02/22	2 Mon 17/01/22	2 Tue 13/09/22	0 days 536	694					
693	1		90 days Mon 28/02/22	Sat 28/05/22			Wed 14/09/22			695					
694	694 5.20.7.10.2									755					
695	695 5.20.7.10.3	BR - Shipping and Delivery of Plant to site	45 days Sun 29/05/22	Tue 12/07/22			2 Tue 13/12/22		126 days 694			Land and the second distance of			
696	696 5.20.7.10.4	MFS - Manufacturing of Plant	240 days Sat 03/07/21	Sun 27/02/22			2 Mon 17/01/22		0 days 660	697	4 :000				
697	697 5.20.7.10.5	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days Mon 28/02/22	Sat 28/05/22	Mon 28/02/2	.2 Sat 28/05/22	Wed 14/09/22	2 Mon 12/12/22	20 days 696	698					
698	698 5.20.7.10.6	MFS - Shipping and Delivery of Plant to site	45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/2	22 Tue 13/12/22	Thu 26/01/23	106 days 697,7375	5-6756					
699	699 5.20.7.11	HV Switchboards, EQT031	410 days Fri 18/06/21	Mon 01/08/22	Fri 18/05/21	Mon 01/08/2	22 Sun 17/04/22	Sat 25/02/23	208 days						
	1									1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1					and bright or others
-		Task Milestone + Project Su	ummary 1 Late	E State of C	Critical Split		Manual Progress	}	Milestone (Actual) 🕇						



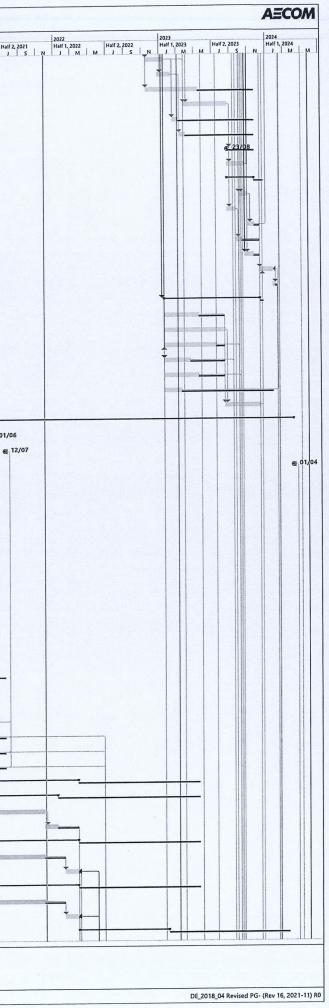
ID	WBS Task	Name	Duration between Task Start	Finish	Early Start	Early Finish	Late Start		Free Slack Predecessors	orks for Sewage Treatment Successors	Resource Names	2020	
	1855 Jask		Start and Finish									Half 1, 2020 Half 2, 2 N J M M J	020 S N
00	700 5.20.7.11.1	MFS - Manufacturing of Plant	180 days Fri 18/06/21	Tue 14/12/21	Fri 18/06/21	Tue 14/12/21	Sun 17/04/22	Thu 13/10/22	0 days 661	701			
01	701 5.20.7.11.2	MFS - Factory Acceptance Test of Plant (to be witnessed by PM)	90 days Wed 15/12/21	Mon 14/03/22	Wed 15/12/21	Mon 14/03/22	Fri 14/10/22	Wed 11/01/23		702			
02	702 5.20.7.11.3	MFS - Shipping and Delivery of Plant to site	45 days Sat 18/06/22	Mon 01/08/22	Sat 18/06/22	Mon 01/08/22	Thu 12/01/23	Sat 25/02/23	106 days 701,73755-0	759			
03	703 5.20.7.12	11kV/380V Stepdown Power Transformers, EQT032	285 days Wed 16/03/22	Sun 25/12/22	Wed 16/03/22	Sun 25/12/22	Mon 07/11/22	Fri 18/08/23	236 days				
4	704 5.20.7.12.1	MFS - Manufacturing and Factory Acceptance Test of Plant	240 days Wed 16/03/22	Thu 10/11/22	Wed 16/03/22	Thu 10/11/22	Mon 07/11/22	Tue 04/07/23	0 days 657	705			
	705 5.20.7.12.2	MFS - Shipping and Delivery of Plant to site	45 days Fri 11/11/22	Sun 25/12/22	Fri 11/11/22	Sun 25/12/22	Wed 05/07/23	Fri 18/08/23	0 days 704	760			
			285 days Wed 16/03/22	Sun 25/12/22	Wed 16/03/22	Sun 25/12/22	Sun 17/04/22	Thu 24/08/23	32 days				
	706 5.20.7.13	PLC System								708			
07	707 5.20.7.13.1	Manufacturing of Plant, PLC for BR2A &B	210 days Wed 16/03/22	Tue 11/10/22		Tue 11/10/22		Sat 12/11/22	0 days 534				
08	708 5.20.7.13.2	Factory Acceptance Test of Plant, PLC for BR2A &B (To be witnessed	30 days Wed 12/10/22	Thu 10/11/22	Wed 12/10/22	Thu 10/11/22	Sun 13/11/22	Mon 12/12/22	0 days 707	709			
09	709 5.20.7.13.3	Shipping and Delivery of Plant to site	45 days Fri 11/11/22	Sun 25/12/22	Fri 11/11/22	Sun 25/12/22	Tue 13/12/22	Thu 26/01/23	0 days 708	757			
10	710 5.20.7.13.4	Manufacturing of Plant, PLC for MFB2	210 days Wed 16/03/22	Tue 11/10/22	Wed 16/03/22	Tue 11/10/22	Sun 13/11/22	Sat 10/06/23	0 days 657	711			
11	711 5.20.7.13.5	Factory Acceptance Test of Plant, PLC for MFB2 (To be witnessed by	30 days Wed 12/10/22	Thu 10/11/22	Wed 12/10/22	Thu 10/11/22	Sun 11/06/23	Mon 10/07/23	0 days 710	712			
			 45 days Fri 11/11/22 	Sun 25/12/22	Fri 11/11/22	Sun 25/12/22		Thu 24/08/23	0 days 711	758			
	712 5.20.7.13.6	Shipping and Delivery of Plant to site											
	713 5.20.8	Site Installation Work	683 days Sun 20/03/22	Wed 31/01/24		Wed 31/01/24		Tue 13/02/24	0 days	717 7776 45 . 1			
14	714 5.20.8.1	Tentative Civil Handover Date, Portion B-5A, MFB No. 2 below 1st floor	1 day Sun 20/03/22	Sun 20/03/22	Sun 20/03/22	Sun 20/03/22		Sun 20/03/22	0 days	717,723FS+45 edays,716,			
15	715 5.20.8.2	Commencement of E&M Installation at MFB No. 2 Lower Part	404 days Mon 21/03/22	Fri 28/04/23	Mon 21/03/22	Fri 28/04/23	Mon 21/03/22	Wed 22/11/23	0 days 714				
16	716 5.20.8.2.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W	7 days Mon 21/03/22	Sun 27/03/22	Mon 21/03/22	Sun 27/03/22	Mon 21/03/22	Sun 27/03/22	0 days 714				
	717 5.20.8.2.2	Installation of Lifting Appliances at MFB No. 2	66 days Mon 21/03/22	Wed 25/05/22	Mon 21/03/22	Wed 25/05/22	Thu 24/11/22	Sat 28/01/23	248 days 714,691			007000	
			45 days Mon 21/03/22	Wed 04/05/22		Wed 04/05/22		Sat 07/01/23	0 days	720,721,722			
	7185.20.8.2.2.:	B2 EOT Crane LA-04-01 SWL St								720,721,722		1967/0767	
19	7195.20.8.2.2.:	B2 EOT Crane LA-04-02 SWL 5t	30 days Mon 21/03/22	Tue 19/04/22		Tue 19/04/22		Sat 07/01/23	15 days				
20	720 5.20.8.2.2.:	B2 MR LA-04-03 SWL 5t	14 days Thu 05/05/22	Wed 18/05/22		Wed 18/05/22		Sat 21/01/23		722			
721	7215.20.8.2.2.4	B1 MR LA-04-04 5WL 3t	14 days Thu 05/05/22	Wed 18/05/22	Thu 05/05/22	Wed 18/05/22	Sun 08/01/23	Sat 21/01/23	0 days 718,719	722			
22	722 5.20.8.2.2.!	T&C, Loading Test for Lifting Appliances	7 days Thu 19/05/22	Wed 25/05/22	Thu 19/05/22	Wed 25/05/22	Sun 22/01/23	Sat 28/01/23	57 days 718,719,72	(725			
23	723 5.20.8.2.3	Mechanical Installations for E&M Equip. at MFB No. 2 Lower Part	359 days Thu 05/05/22	Fri 28/04/23	Thu 05/05/22	Fri 28/04/23	Sun 29/01/23	Wed 22/11/23	0 days 714FS+45 e	(73555			
724		Installation of penstocks and stoplogs (Penstocks 18nos, Stoplogs	90 days Tue 02/08/22	Sun 30/10/22	Tue 02/08/22	Sun 30/10/22	Sun 26/02/23	Fri 26/05/23	0 days 685	734	ME - E x 4~6 men		
	724 5.20.8.2.3.			Wed 19/10/22	Fri 22/07/22	Wed 19/10/22		Fri 28/04/23	191 days 667,722		ME - A x 4~6 men		
725	725 5.20.8.2.3.:	Installation of hollow fibre membrane modules (x9), EQT023	90 days Fri 22/07/22								ME - B x 4~6 men		
726	726 5.20.8.2.3.:	Installation of air scour blowers (x3), EQT040	90 days Tue 02/08/22	Sun 30/10/22		Sun 30/10/22		Fri 26/05/23				114 F 11 F 1	
727	727 5.20.8.2.3.4	Installation of permeate pumps (x10), EQT024	90 days Mon 31/10/22	Sat 28/01/23	Mon 31/10/22	2 Sat 28/01/23	Sat 27/05/23	Thu 24/08/23	0 days 726,673		ME - A x 4~6 men		
728	728 5.20.8.2.3.!	Installation of return activated sludge pumps (x5), EQT010	90 days Mon 31/10/22	Sat 28/01/23	Mon 31/10/22	Sat 28/01/23	Sat 27/05/23	Thu 24/08/23	0 days 726	730	ME - B x 4~6 men		
729	729 5.20.8.2.3.1	Installation of membrane tank drain pumps (x2), EQT009	45 days Thu 05/05/22	Sat 18/06/22	Thu 05/05/22	Sat 18/06/22	Tue 11/07/23	Thu 24/08/23	224 days	730	ME-Cx4~6 men		
730	730 5.20.8.2.3.	Installation of pipework and valves, EQT036	90 days Sun 29/01/23	Fri 28/04/23	Sun 29/01/23	Fri 28/04/23	Fri 25/08/23	Wed 22/11/23	0 days 726,727,72	£734FF	ME - C x 4~6 men		
			60 days Thu 05/05/22	Sun 03/07/22		Sun 03/07/22		Fri 28/04/23	299 days 679		ME - D x 2~4 men		
731	731 5.20.8.2.3.1	Installation of chemical storage tank, EQT025									ME - D x 2~4 men	August the	
732	732 5.20.8.2.3.!	Installation of chemical dosing pumps, EQT026	60 days Thu 05/05/22	Sun 03/07/22		Sun 03/07/22		Fri 28/04/23	299 days 682				
733	733 5.20.8.2.3.:	Installation of plant service water system	90 days Thu 05/05/22	Tue 02/08/22	Thu 05/05/22	Tue 02/08/22	Sun 29/01/23	Fri 28/04/23	269 days		ME - Cx 4~6 men		
734	734 5.20.8.2.3.:	Site Acceptance Tests - mechanical aspects including alignment ar	180 days Mon 31/10/22	Fri 28/04/23	Mon 31/10/22	2 Fri 28/04/23	Sat 27/05/23	Wed 22/11/23	176 days 724,730FF	772	ME - D x 2~4 men		
735	735 5.20.8.2.4	Electrical Installations for E&M Equip. at MFB No. 2 Lower Part	150 days Thu 05/05/22	Sat 01/10/22	Thu 05/05/22	Sat 01/10/22	Wed 28/12/22	Fri 26/05/23	237 days 72355				
736	736 5.20.8.2.4.:	Installation of cable trays and cable containments	150 days Thu 05/05/22	Sat 01/10/22	Thu 05/05/22	Sat 01/10/22	Wed 28/12/22	Fri 26/05/23	45 days	761			
737	737 5.20.8.3	Tentative Civil Handover Date, Portion B-5B, MFB No. 2 remaining port	[Wed 17/08/22	Wed 17/08/22	2 Wed 17/08/22	Wed 17/08/22	Wed 17/08/22	0 days	740,749FS+45 edays,775			
		Commencement of E&M Installation at MFB No. 2 Upper Part	532 days Thu 18/08/22	Wed 31/01/24			4 Thu 18/08/22		0 days 737			e Construction	
738	738 5.20.8.4												
739	739 5.20.8.4.1	Provision of Temporary Water Supply, Electricity Supply, Lighting, W		Wed 24/08/22			2 Thu 18/08/22	Wed 24/08/22	0 days 737				
740	740 5.20.8.4.2	Installation of Lifting Appliances at MFB No. 2	142 days Thu 18/08/22	Fri 06/01/23			Tue 27/09/22	Wed 15/02/23	40 days 737,691				
741	741 5.20.8.4.2.:	GF EOT Crane LA-04-05 SWL 5t	45 days Thu 18/08/22	Sat 01/10/22	Thu 18/08/22	Sat 01/10/22	Tue 27/09/22	Thu 10/11/22	0 days	743,744,748	LA - A x 4~6 men		
742	742 5.20.8.4.2.:	GF Gantry Crane LA-04-06 SWL 6t	45 days Thu 18/08/22	Sat 01/10/22	Thu 18/08/22	Sat 01/10/22	Tue 27/09/22	Thu 10/11/22	0 days	743,744,748	LA - B x 4~6 men		
743	743 5.20.8.4.2.:	1F EOT Crane LA-04-07 SWL 15t	45 days Sun 02/10/22	Tue 15/11/22	Sun 02/10/22	Tue 15/11/22	Fri 11/11/22	Sun 25/12/22	0 days 741,742	745,746,747,748	LA - A x 4~6 men		
	743 5.20.8.4.2.4	1F EOT Crane LA-04-08 SWL 15t	45 days Sun 02/10/22	Tue 15/11/22	Sun 02/10/22	Tue 15/11/22	Fri 11/11/22	Sun 25/12/22	0 days 741,742	745,746,747,748	LA - B x 4~6 men	2222-0222 22	
744				Fri 30/12/22			Mon 26/12/22		0 days 743,744		LA - A x 4~6 men		
745	745 5.20.8.4.2.!	RF EOT Crane LA-04-09 SWL 2t	45 days Wed 16/11/22						L		LA - B x 4~6 men		
746	746 5.20.8.4.2.1	RF Retractable MR LA-04-10 SWL 2t	45 days Wed 16/11/22	Fri 30/12/22		2 Fri 30/12/22		Wed 08/02/23	0 days 743,744				
747	747 5.20.8.4.2.	Mobile A-frame LA-04-11 SWL 2t	7 days Wed 16/11/22	Tue 22/11/22	Wed 16/11/2	2 Tue 22/11/22	Thu 02/02/23	Wed 08/02/23	38 days 743,744	748	LA - C x 4~6 men		
748	748 5.20.8.4.2.1	T&C, Loading Test for Lifting Appliances	7 days Sat 31/12/22	Fri 06/01/23	Sat 31/12/22	Fri 06/01/23	Thu 09/02/23	Wed 15/02/23	0 days 741,742,74	2750	LA - A x 4~6 men		
749	749 5.20.8.4.3	Mechanical Installations for E&M Equip. at MFB No. 2 Upper Part	377 days Sun 02/10/22	Fri 13/10/23	Sun 02/10/22	Fri 13/10/23	Thu 16/02/23	Wed 22/11/23	0 days 737FS+45	c 754SS+45 edays, 772			
750	750 5.20.8.4.3.	Installation of air scour blowers (x3)	100 days Sat 07/01/23	Sun 16/04/23		Sun 16/04/23		Fri 26/05/23	0 days 748	751,753	ME - A x 4~6 men		
				Thu 15/06/23			Sun 24/09/23	Wed 22/11/23	160 days 750		ME - B x 4~6 men		
751	751 5.20.8.4.3.:	Installation of compressed air system (x1)	60 days Mon 17/04/23										
752	752 5.20.8.4.3.:	Installation of instrumentations, EQT035-1	60 days Sun 02/10/22	Wed 30/11/22			2 Sun 24/09/23	Wed 22/11/23	357 days 52		ME - D x 2~4 men		
753	753 5.20.8.4.3.4	Site Acceptance Tests - mechanical aspects including alignment a	n 180 days Mon 17/04/23	Fri 13/10/23	Mon 17/04/2	3 Fri 13/10/23	Sat 27/05/23	Wed 22/11/23	40 days 750		ME - D x 2~4 men		
754	754 5.20.8.4.4	Electrical Installations for E&M Equip. at MFB No. 2 Upper Part	340 days Wed 16/11/22	Sat 21/10/23	Wed 16/11/2	2 Sat 21/10/23	Fri 27/01/23	Wed 22/11/23	0 days 74955+45	21772			
755	755 5.20.8.4.4.:	Installation of LV Switchboards, BR2	90 days Wed 16/11/22	Mon 13/02/23	Wed 16/11/2	2 Mon 13/02/2	3 Fri 27/01/23	Wed 26/04/23	40 days 695	762	LV - B x 4~6 men		
	1		90 days Wed 16/11/22	Mon 13/02/23	1	2 Mon 13/02/2		Wed 26/04/23	40 days 698	762	LV - A x 4~6 men		
756		Installation of LV Switchboards, MFB No. 2						Wed 26/04/23	0 days 709	762,768			
757	757 5.20.8.4.4.	Installation of PLC Panels, BR2	90 days Mon 26/12/22	Sat 25/03/23		2 Sat 25/03/23					DIC By 1 mar	10 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
758	758 5.20.8.4.4.	Installation of PLC Panels, MFB No. 2	90 days Mon 26/12/22	Sat 25/03/23	Mon 26/12/2	2 Sat 25/03/23	Fri 25/08/23	Wed 22/11/23	242 days 712		PLC - B x 1 man		

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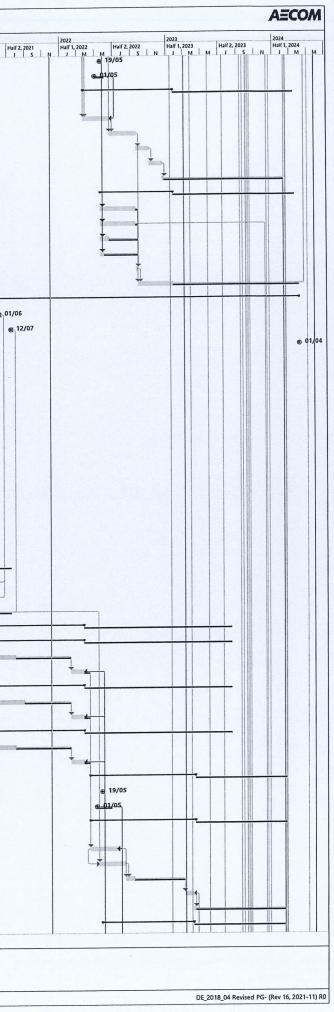
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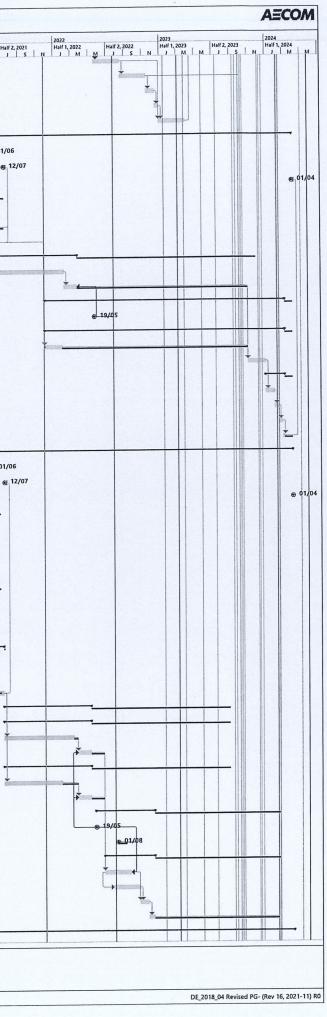
D Difference Difference Difference	2-		pariment								Works for Sewage Treatme			
D D	ID	WBS Tas	k Name		Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecesso	ors Successors	Resource Names	Half 1, 2020 Ha	
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>		7595 20 8 4 4 1	Installation of HV Switchboards, MFB No. 2	60 days Wed 16/11	/22 Sat 14/01/23	Wed 16/11/22	Sat 14/01/23	Sun 26/02/23	Wed 26/04/23	0 days 702	762,763FS+30 days	HV - A x 4~6 men		
	_			45 days Mon 26/12	/22 Wed 08/02/23	Mon 26/12/22	Wed 08/02/23	Sat 19/08/23	Mon 02/10/23	0 days 705	764FS+30 days			÷
No. 10.00.00 No. 00.000 No. 00.0000 No. 00.0000 No.						Wed 16/11/22	Sun 14/05/23	Sat 27/05/23	Wed 22/11/23	192 days 736				
No. 2000/1000/1000/1000/1000/1000/1000/1000											757769,766,765			
No. Description Description Description Description Biologic	_								and the second			HV - A x 4~6 men		
Number of the second proceedings of the second s		763 5.20.8.4.4.!												
Normal	4	764 5.20.8.4.4.:	Testing of Transformers, MFB No. 2	21 days Sat 11/03/	23 Fri 31/03/23) di			
P Part Control Description Description Part Control	55	765 5.20.8.4.4.:	Energisation of LV Switchboards, MFB No. 2 (Rev. 8)	1 day Wed 23/08	/23 Wed 23/08/23	Wed 23/08/23	Wed 23/08/23	Wed 22/11/23	Wed 22/11/23	91 days 762				
Normal is an endower week week week week week week week w	6	766 5.20.8.4.4.:	Site Acceptance Tests - Electrical aspects including voltage and cur	60 days Wed 23/08	/23 Sat 21/10/23	Wed 23/08/23	Sat 21/10/23	Sun 24/09/23	Wed 22/11/23	0 days 762	772	LV - A x 4~6 men		
Normal Mathematican Mathamatim Mathamatican Mathamatican Mathamatican Mathamatican Mat	57	767 5.20.8.4.5	SCADA Systems, BR No. 1 & No 2, MFB No. 2	91 days Wed 23/0	/23 Tue 21/11/23	Wed 23/08/23	Tue 21/11/23	Thu 02/11/23	Fri 22/12/23	31 days				
				30 days Mon 02/10	/23 Tue 31/10/23	Mon 02/10/23	Tue 31/10/23	Thu 02/11/23	Fri 01/12/23	0 days 757,593	770	PLC - A x 1 man		
No Notewards <						Wed 23/08/23	Thu 21/09/23	Thu 02/11/23	Fri 01/12/23	0 days 762	771			
Control Standbard Standbard <thstandbard< th=""> Standbard</thstandbard<>														
Vision Control Control <th< td=""><td>0</td><td>770 5.20.8.4.5.:</td><td>Site Acceptance Test for PLC System at BK No. 1 and No. 2</td><td></td><td></td><td></td><td></td><td></td><td></td><td>and an and an and an and an and an and</td><td></td><td></td><td>and prove of</td><td></td></th<>	0	770 5.20.8.4.5.:	Site Acceptance Test for PLC System at BK No. 1 and No. 2							and an and an and an and an and an and			and prove of	
Non-Non-Neuronal Control (Control (Contro) (Contro) (Control (Control (Control (Contro) (Contro) (Contro)	1	771 5.20.8.4.5.	Site Acceptance Test for PLC System at MFB No. 2	21 days Fri 22/09/2										
2 20 20.200 20.2000 20.	72	772 5.20.8.4.6	Site Acceptance Test for E&M Equip at MFB No. 2	30 edays Sat 21/10/	23 Mon 20/11/23	Sat 21/10/23	Mon 20/11/23	Thu 23/11/23	Sat 23/12/23					
No. No. 2002 Month Volume Security Volume Securety Volume Security Volume Volume Securety Volume Securety Volume	3	773 5.20.8.4.7	System Commissioning for E&M Equip at MFB No. 2	45 days Mon 11/1	2/23 Wed 24/01/24	Mon 11/12/23	Wed 24/01/24	Sat 23/12/23	Mon 05/02/24	0 days 770,772,	782774			
Displace	74	774 5.20.8.4.8	Risk Allowances for Completion of Processing Plant at MFB No. 2	7 edays Wed 24/0	/24 Wed 31/01/24	Wed 24/01/24	Wed 31/01/24	Tue 06/02/24	Tue 13/02/24	7.63 edays 773	1278			
No. No. <td></td> <td></td> <td></td> <td>330 days Sun 15/01</td> <td>/23 Sun 10/12/23</td> <td>Sun 15/01/23</td> <td>Sun 10/12/23</td> <td>Fri 27/01/23</td> <td>Mon 05/02/24</td> <td>12 days 737FS+1</td> <td>50 i</td> <td></td> <td></td> <td></td>				330 days Sun 15/01	/23 Sun 10/12/23	Sun 15/01/23	Sun 10/12/23	Fri 27/01/23	Mon 05/02/24	12 days 737FS+1	50 i			
No. No. 00.000 No.0000 No.0000 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>MVAC - A x 4~6 men</td><td></td><td></td></th<>												MVAC - A x 4~6 men		
Virtual Display Display <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
	77	777 5.20.8.4.9.:												
	78	778 5.20.8.4.9.:	Plumbing Installation, MFB No. 2											
Image and the state of the state o	79	779 5.20.8.4.9.4	CCTV Installation (10 indoor + 3 outdoor Cameras), MFB No. 2	90 days Sun 15/01	/23 Fri 14/04/23				Thu 24/08/23					
No. No. 1000 (model second secon	780	780 5.20.8.4.9.!	Fire Services Installation, MFB No. 2	120 days Sun 15/01	/23 Sun 14/05/23	Sun 15/01/23	Sun 14/05/23	Thu 27/04/23	Thu 24/08/23	90 days	1202,1214,1215,782	FS - B x 4~6 men		
	81	781 5.20.8.4.9.(Earthing and Lightning Protection System, MFB No. 2	60 days Sun 15/01	/23 Wed 15/03/23	Sun 15/01/23	Wed 15/03/23	3 Fri 08/12/23	Mon 05/02/24	315 days	773FF	BS - C x 2~4 men		
No. Non-Control presents in starts 2, presents 3, septem				120 days Sun 13/08	/23 Sun 10/12/23	Sun 13/08/23	Sun 10/12/23	Fri 25/08/23	Fri 22/12/23	0 days 776,777,	778773	B5 - C x 2~4 men		
Number of the second sequence sequ									Mon 01/04/24	0 days				
No.111 Operational conduction frame fr							1				12Ff			
Normal Manual Manus Cale Scale Marked Scale Marked Scale Marked Marked Scale Marked	84	784 5.21.1											12.000.012000	
No. Statustics of Supplies for major gives for and supplies for and supplies for major gives for and supplies for major gives for and supplies for major gives for and supplies for and supplice for and supplies for and supplies for and supplies	785	785 5.21.2	Planned Sectional Completion Date - Section 1, Chem Sys No. 1 & 2	0 days Mon 12/0							J4F1			
No.11.14 Control Advance and analysis and a Cli unit Carrons Description No.11.100	786	786 5.21.3	Planned Sectional Completion Date - Section 2, Chem Sys No. 1 & 2	0 days Mon 01/0	4/24 Mon 01/04/24	Mon 01/04/2	4 Mon 01/04/24	4 Mon 01/04/24	Mon 01/04/24	0 days 832FF				
Mining Mining<	787	787 5.21.4	Selection of Suppliers for major plant and materials for Chemical System	240 days Thu 01/10	/20 Fri 28/05/21	Thu 01/10/20	Fri 28/05/21	Thu 01/10/20	Fri 28/05/21	0 days				
Mining a manufacture and a second marge and a point of a second marge and a second ma	788	788 5.21.4.1	Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQT025	240 days Thu 01/10,	20 Fri 28/05/21	Thu 01/10/20	Fri 28/05/21	Thu 01/10/20	Fri 28/05/21	0 days				
No. N	789	789521.4.1.1	Submission for acceptance of purchasing package	60 days Thu 01/10,	20 Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	790			
No. No. 2000 (0.00000 (0.0000 (0.00000 (0.0000 (0.0000 (0.0000 (0.0000				30 days Mon 30/11	/20 Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 789	791			±
Minipul Manufactor marked								Wed 30/12/20	Thu 28/01/21	0 days 790	803			±
No. 1.2 Description of analyzing of analyzi	791	791 5.21.4.1.3												
minute minute<	792	792 5.21.4.2	Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQT027											
Mining Mining<	793	793 5.21.4.2.1	Submission for acceptance of purchasing package	60 days Thu 01/10	20 Sun 29/11/20			Thu 01/10/20						
Model Model <th< td=""><td>794</td><td>794 5.21.4.2.2</td><td>Invitation of quotations for purchasing package</td><td>60 days Mon 30/13</td><td>/20 Thu 28/01/21</td><td>Mon 30/11/20</td><td>Thu 28/01/21</td><td>Mon 30/11/20</td><td>Thu 28/01/21</td><td>0 days 793</td><td>795</td><td></td><td></td><td></td></th<>	794	794 5.21.4.2.2	Invitation of quotations for purchasing package	60 days Mon 30/13	/20 Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	0 days 793	795			
Main Main <th< td=""><td>795</td><td>795 5.21.4.2.3</td><td>Acceptance of conforming quotation (Completed)</td><td>30 days Fri 29/01/2</td><td>1 Sat 27/02/21</td><td>Fri 29/01/21</td><td>Sat 27/02/21</td><td>Fri 29/01/21</td><td>Sat 27/02/21</td><td>0 days 794</td><td>803,804,805</td><td></td><td></td><td></td></th<>	795	795 5.21.4.2.3	Acceptance of conforming quotation (Completed)	30 days Fri 29/01/2	1 Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days 794	803,804,805			
	796	796 5.21.4.3	Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026	120 days Thu 01/10	/20 Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	0 days				
Mark Biolation of posibility for posibili			Submission for acceptance of purchasing package	60 days Thu 01/10	20 Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	798			—
mining mining<				1/06 noM 2veb 06	/20 Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 797	799			±
min min <td></td>														
mode mode <th< td=""><td>799</td><td>799 5.21.4.3.3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	799	799 5.21.4.3.3												
will will will will will will will will	800	800 5.21.5	Design Submissions for Chemical System No. 1 and No. 2											
Note::::::::::::::::::::::::::::::::::::	801	801 5.21.5.1	Electrical schematic drawings for Chemical Systems No. 1 and No. 2	60 days Tue 21/0	7/20 Fri 18/09/20	Tue 21/07/20	Fri 18/09/20	Tue 21/07/20	Tue 01/06/21	256 days				
No. 0000 Operating of the control of the	802	802 5.21.5.2	CDS081-5 - Civil and dimensional requirements drawings for Chemical	70 days Fri 28/08	20 Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	0 days	784FF			
Marked Operation Status Operation Status Operation Status Operation Status	803	803 5.21.5.3	CDS006 - Detailed Design for Chemical Dosing System	90 edays Sat 27/02	/21 Fri 28/05/21	Sat 27/02/21	Fri 28/05/21	Sat 27/02/21	Mon 12/07/21	0.63 edays 791,795	,795809,812,815,785FF			
Bit Bit <td></td> <td></td> <td></td> <td></td> <td></td> <td>Sat 27/02/21</td> <td>Fri 28/05/21</td> <td>Sat 27/02/21</td> <td>Mon 12/07/21</td> <td>45 edays 795</td> <td>822,785FF</td> <td></td> <td></td> <td></td>						Sat 27/02/21	Fri 28/05/21	Sat 27/02/21	Mon 12/07/21	45 edays 795	822,785FF			
000 0													and analysis (1) (1) (2)	
abs 0 1111/2 band activity of plant ballware of Plant ba														
or of out or of out or of out or of out out of out	806	806 5.21.5.6												
Bits S1.1.6.1 Outsettee funder funder (consigne funder, consigne funder, consig	807	807 5.21.6	Manufacturing and Delivery of Plant & Materials	296 days Sat 29/0	5/21 Sun 20/03/22	Sat 29/05/21								
Bub 3 00 5 7.16.1.1 Manufacturing and rectory Acceptance Text of Name 45 days Tru 25/11/21 Sat 08/01/22 Tru 25/11/21 Sat 08/01/22 Tru 25/11/21 Sat 08/01/22 Tru 25/01/22 Tru	808	808 5.21.6.1	Chemical Storage Tanks, EQT025	225 days Sat 29/0	5/21 Sat 08/01/22	Sat 29/05/21	Sat 08/01/22	Thu 29/09/22	Thu 11/05/23	488 days				
810 S1.5 Shipping and Delivery of Plant osite 45 days: Thu 25/11/1 Sto 08/01/2 Thu 25/01/2 Thu 28/03/2 Thu 11/05/2 73 days 80 821 811 S1.5 Chemical Dosing Pumps, EQT027 226 days: Sat 29/05/21 Sun 20/03/22 Thu 29/02/22 Thu 11/05/23 71 days 813 813 S2.5.2.6.2. Manufacturing and Factory Acceptance Test of Plant 180 days: Sat 29/05/21 Wed 24/11/21 Thu 29/02/2 Thu 11/05/23 71 days 813 813 S2.5.2.6.2. Shipping and Delivery of Plant to site 45 days: Fri 04/02/22 Sun 20/03/22 Thu 29/02/22 Thu 11/05/23 2 days 813 813 814 S2.5.2.6.2. Shipping and Delivery of Plant to site 45 days: Fri 04/02/22 Sun 20/03/22 Thu 29/02/22 Thu 11/05/23 417 days 813 815 S2.5.2.6.3. Manufacturing and Factory Acceptance Test of Plant 180 days: Sat 29/05/21 Sun 20/03/22 Thu 29/02/22 Min 29/02/23 Thu 11/05/23 417 days 816 816 S2.5.2.6.3. Manufacturing and Factory Acceptance Test of Plant 307 days: Sun 20/03/22 Thu 29/03/22 Thu 11/05/23 2 days 815,818FF-6821 Sun 20/03/22	809	809 5.21.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 29/0	/21 Wed 24/11/21	Sat 29/05/21	Wed 24/11/2	1 Thu 29/09/22	Mon 27/03/23	0 days 803	810			
All 5.21.6.2 Chemical Dosing Pumps, EQT027 296 days Sat 29/05/21 Sun 20/03/22 Flu 29/09/22 Flu 11/05/23 417 days All 7 days All	810	810 5.21.6.1.2	Shipping and Delivery of Plant to site	45 days Thu 25/1	1/21 Sat 08/01/22	Thu 25/11/2	1 Sat 08/01/22	Tue 28/03/23	Thu 11/05/23	73 days 809	821			
811 3.4.8.2 Other and point of the po				296 days Sat 29/0	5/21 Sun 20/03/22	Sat 29/05/21	L Sun 20/03/2	2 Thu 29/09/22	Thu 11/05/23	417 days				
812 813 813 813 813 813 813 814 8											813			
ais also 2.1.0.2.2 Sampling and Defivery of Hank to site Chemical Transfer Pumps, EQT026 296 days Sat 29/05/21 Sun 20/03/22 Thu 29/09/22 Thu 11/05/23 417 days And And <td></td>														
Bit Display Labor Manufacturing and Factory Acceptance Test of Plant 180 days Sat 29/05/21 Wed 24/11/21 Thu 29/09/22 Mon 27/03/23 71 days 803 816 815 216 2.1.6.3.2 Shipping and Delivery of Plant to site 45 days fri 04/02/22 Sun 20/03/22 Tive 28/03/23 Thu 11/05/23 2 days 815,818FF-6821 817 217 Site Installation Work 307 days Tue 22/03/22 Mon 23/01/23 Til 2/05/23 Mon 01/04/24 415 days Task Milestone, Tentaitive ® Summary Manual Summary Critical Progress Minuel Progress Milestone, Catual Progress Milestone, Catual Progress	813												(in termsteined)	
B15 B15 C110:01	814	814 5.21.6.3	Chemical Transfer Pumps, EQT026	296 days Sat 29/0	-									
B10 0.10	815	815 5.21.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat 29/0	5/21 Wed 24/11/21	Sat 29/05/21	Wed 24/11/2	1 Thu 29/09/22	Mon 27/03/23	71 days 803	816			
B1/5/2.1/ Site instantation work	816	816 5.21.6.3.2	Shipping and Delivery of Plant to site	45 days Fri 04/02	/22 Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	2 Tue 28/03/23	Thu 11/05/23	2 days 815,818	FF-6821			
Tark Milestone Project Summary Late Critical Split Manual Progress Milestone (Actual) * Bestwire Summary Manual Summary Critical Progress Slack (Float) Slack	817	817 5.21.7	Site Installation Work	307 days Tue 22/0	3/22 Mon 23/01/23	Tue 22/03/2	2 Mon 23/01/2	23 Fri 12/05/23	Mon 01/04/24	415 days				
lask methods summary Critical Progress Siack (Float) Slack								1		1				
Milestone, tentative a Summary Mainder Summary					Manufacture and and			-	h	filestone (Actual) 🛣				
			Milestone, Tentative Summary Manual S	Summary Critical		Progress		Slack (Float)	S	lack				



	alnage Services [Department				Shel	c Wu Hui Effluent F	Proposed W Polishing Plant - Ma	ain Works Stage 1 E&M \	Works for Sewage Treatmen	t Facilities		
10	WBS T	'ask Name	Duration between Task Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecesso	rs Successors	Resource Names	2020 Half 1, 2020 Half	2021 f 2, 2020 Half 1,
				Thu 10/05/22	Thu 10/05/22	Thu 10/05/22	Mon 10/07/23	Mon 10/07/23	0 davr	816FF-60 edays,813FF-6	0	N J M M J	
1	318 5.21.7.1	Tentative Civil Handover Date, Portion B-7 & B-7B (Rev. 5)	1 day Thu 19/05/22	Thu 19/05/22				A change and the second	0 days		•		
	319 5.21.7.2	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 day Sun 01/05/22	Sun 01/05/22		Sun 01/05/22		Tue 20/06/23	33 days	821FF+50 days			
	320 5.21.7.3	Commencement of E&M Installation at Chemical Dosing System 1 and System 2	307 days Tue 22/03/22	Mon 23/01/23	Tue 22/03/22	Mon 23/01/23	Fri 12/05/23	Mon 01/04/24	415 days				
							F : 42/05/22	Th. 10/00/22	0.1.01055.50	4.977	ME - D x 2~4 men		
	321 5.21.7.3.1	Mechanical Installations for E&M Equip. for Chemical Dosing System	90 edays Tue 22/03/22	Mon 20/06/22		Mon 20/06/22		Thu 10/08/23	0 edays 819FF+50				
2	822 5.21.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 edays Mon 20/06/22	Sun 18/09/22	Mon 20/06/22	Sun 18/09/22	Thu 10/08/23	Wed 08/11/23	0.63 edays 821,804,8	05823,831	EE - B x 4~6 men		
3	823 5.21.7.3.3	Site Acceptance Test for E&M Equip for Chemical Dosing System	45 days Mon 19/09/22	Wed 02/11/22	Mon 19/09/22	Wed 02/11/22	Wed 08/11/23	Fri 22/12/23	0 days 822	824	EE - A x 4~6 men		
4	824 5.21.7.3.4	System Commissioning for E&M Equip for Chemical Dosing System	45 days Thu 03/11/22	Sat 17/12/22	Thu 03/11/22	Sat 17/12/22	Sat 23/12/23	Mon 05/02/24	0 days 823	825			
s	825 5.21.7.3.5	Risk Allowances for Completion of Processing Plant at Chemical Dosi	7 edays Sat 17/12/22	Sat 24/12/22	Sat 17/12/22	Sat 24/12/22	Tue 06/02/24	Tue 13/02/24	410.63 ed 824	1278			
	826 5.21.7.3.6	Building Services Installations at Chemical Dosing System areas	249 days Fri 20/05/22	Mon 23/01/23	Fri 20/05/22	Mon 23/01/23	Thu 13/07/23	Mon 01/04/24	419 days				
		Lighting and Power Distribution System, Chem 1&2	120 days Fri 20/05/22	Fri 16/09/22	Fri 20/05/22	Fri 16/09/22	Sun 06/08/23	Sun 03/12/23	9 days 818	832	BS - B x 4~6 men		
	827 5.21.7.3.6.:				Fri 20/05/22	Fri 16/09/22	Thu 13/07/23	Thu 09/11/23	9 days 818	1214,1215,1205,832	FS - A x 4~6 men		
	8285.21.7.3.6.:	Fire Services Installation, DG Stores	120 days Fri 20/05/22	Fri 16/09/22							EE - D x 4~6 men		
9	829 5.21.7.3.6.:	Lightning Protection System, Chem 1&2	30 days Fri 20/05/22	Sat 18/06/22	Fri 20/05/22		Sat 04/11/23	Sun 03/12/23	99 days 818	832			
0	830 5.21.7.3.6.4	Mechanical Ventilation System, Chem 2	14 days Fri 20/05/22	Thu 02/06/22	Fri 20/05/22	Thu 02/06/22	Mon 20/11/23	Sun 03/12/23	115 days 818	832	MVAC - A x 4~6 men		
11	831 5.21.7.3.6.!	Plumbing Installation, Chem 1	7 days Mon 19/09/22	Sun 25/09/22	Mon 19/09/22	Sun 25/09/22	Mon 27/11/23	Sun 03/12/23	0 days 822	832	Pb - A x 4~6 men		
2	832 5.21.7.3.6.(Testing and Commissioning of Building Services Installations, Chen	120 days Mon 26/09/22	Mon 23/01/23	Mon 26/09/22	Mon 23/01/23	Mon 04/12/23	Mon 01/04/24	434 days 827,828,8	331786FF	BS - C x 2~4 men		
3	833 5.22	Temporary Chemical Dosing System, Portion B7 & B-7B (PS 6B.2.3)	1344 days Tue 28/07/20	Mon 01/04/24	Tue 28/07/20	Mon 01/04/24	Tue 28/07/20	Mon 01/04/24	0 days			-	
14	834 5.22.1	Planned Key Date Completion Date - KD1B, Temp. Chem Dosing Sys	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 851FF,85	2Ff			
			0 days Mon 12/07/21	Mon 12/07/21			Mon 12/07/21		0 days 853FF				
15	835 5.22.2	Planned Sectional Completion Date - Section 1, Temp. Chem Dosing Sys											
36	836 5.22.3	Planned Sectional Completion Date - Section 2, Temp. Chem Dosing Sys	0 days Mon 01/04/24	Mon 01/04/24			Mon 01/04/24		0 days				
7	837 5.22.4	Selection of Suppliers for major plant and materials for Temp. Chemical Dosing System	150 days Thu 01/10/20	Sat 27/02/21	Thu 01/10/20	Sat 27/02/21	Thu 01/10/20	Sat 27/02/21	0 days				
8	838 5.22.4.1	Chemical Storage and Dosing - chemical storage tanks, C11, ref. EQTO	120 days Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	0 days				
39	839 5.22.4.1.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	840			-
40	840 5.22.4.1.2	Invitation of quotations for purchasing package	30 days Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 839	841			*
40	841 5.22.4.1.3	Acceptance of conforming quotation (Completed)	30 days Wed 30/12/20	Thu 28/01/21			Wed 30/12/20		0 days 840	853,856			±
							Thu 01/10/20	Sat 27/02/21	0 days				
42	842 5.22.4.2	Chemical Storage and Dosing - chemical dosing pumps, C11, ref. EQTO		Sat 27/02/21						844			
43	843 5.22.4.2.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20		Thu 01/10/20	Sun 29/11/20	0 days	844			
44	844 5.22.4.2.2	Invitation of quotations for purchasing package	60 days Mon 30/11/20	Thu 28/01/21	Mon 30/11/20	Thu 28/01/21	Mon 30/11/20		0 days 843	845			
45	845 5.22.4.2.3	Acceptance of conforming quotation (Completed)	30 days Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	Fri 29/01/21	Sat 27/02/21	0 days 844	859			
46	846 5.22.4.3	Chemical Storage and Dosing - transfer pumps, C11, ref. EQT026	120 days Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	Thu 01/10/20	Thu 28/01/21	0 days				
47	847 5.22.4.3.1	Submission for acceptance of purchasing package	60 days Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	Thu 01/10/20	Sun 29/11/20	0 days	848			—
48	848 5.22.4.3.2	Invitation of quotations for purchasing package	30 days Mon 30/11/20	Tue 29/12/20	Mon 30/11/20) Tue 29/12/20	Mon 30/11/20	Tue 29/12/20	0 days 847	849			±
			30 days Wed 30/12/20	Thu 28/01/21			Wed 30/12/20		0 days 848	862			¥
349	849 5.22.4.3.3	Acceptance of conforming quotation (Completed)						Mon 12/07/21					
850	850 5.22.5	Design Submissions for Temporary Chemical Dosing System	275 days Tue 28/07/20	Wed 28/04/21			1 Tue 28/07/20		75 days			_	
351	851 5.22.5.1	Electrical schematic drawings for Temporary Chemical Dosing System	60 days Tue 28/07/20	Fri 25/09/20			Tue 28/07/20	Fri 25/09/20	0 days	834FF			
852	852 5.22.5.2	CDS081-6 - Civil and dimensional requirements drawings for Temporar	70 days Fri 28/08/20	Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	Fri 28/08/20	Thu 05/11/20	0 days	834FF			
853	853 5.22.5.3	CDS029 - Detailed Design for Electrical Installations for Temporary Che	90 edays Thu 28/01/21	Wed 28/04/21	Thu 28/01/21	Wed 28/04/2	1 Thu 28/01/21	Mon 12/07/21	75 edays 841	869,835FF			1 1
854	854 5.22.6	Manufacturing and Delivery of Plant & Materials	416 days Fri 29/01/21	Sun 20/03/22	Fri 29/01/21	Sun 20/03/22	Wed 28/12/22	Wed 09/08/23	507 days				-
855	855 5.22.6.1	Chemical Storage Tanks, EQT025	416 days Fri 29/01/21	Sun 20/03/22	Fri 29/01/21	Sun 20/03/22	Wed 28/12/22	Wed 09/08/23	507 days			d Processon	
		Manufacturing and Factory Acceptance Test of Plant	180 days Fri 29/01/21	Tue 27/07/21	Fri 29/01/21		Wed 28/12/22		191 days 841	857		Same and the second	1
856	856 5.22.6.1.1		45 days Fri 04/02/22	Sun 20/03/22	Fri 04/02/22			Wed 09/08/23	20 days 856,865F				
857	857 5.22.6.1.2								al and a second a second				
858	858 5.22.6.2	Chemical Dosing Pumps, EQT027	386 days Sun 28/02/21	Sun 20/03/22				Wed 09/08/23					
859	859 5.22.6.2.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sun 28/02/21	Thu 26/08/21	Sun 28/02/21		Wed 28/12/22		161 days 845	860			
860	860 5.22.6.2.2	Shipping and Delivery of Plant to site	45 days Fri 04/02/22	Sun 20/03/22	Fri 04/02/22	Sun 20/03/22	Mon 26/06/23	Wed 09/08/23	20 days 859,865F	F-6868			
861	861 5.22.6.3	Chemical Transfer Pumps, EQT026	416 days Fri 29/01/21	Sun 20/03/22	Fri 29/01/21	Sun 20/03/22	Wed 28/12/22	Wed 09/08/23	507 days				
862	862 5.22.6.3.1	Manufacturing and Factory Acceptance Test of Plant	180 days Fri 29/01/21	Tue 27/07/21	Fri 29/01/21	Tue 27/07/21	Wed 28/12/22	Sun 25/06/23	191 days 849	863	an a ban an an anna a' an galan a' an airte a' airte an a' ann an a' an a' an		i
	863 5.22.6.3.2		45 days Fri 04/02/22	Sun 20/03/22	Fri 04/02/22		Mon 26/06/23	Wed 09/08/23	20 days 862,865F	F-6868			
863			361 days Sat 09/04/22	Wed 05/04/23			3 Tue 28/03/23		313 days				
864	864 5.22.7	Site Installation Work								857FF-60 edays,860FF-0	50		
865	865 5.22.7.1	Tentative Civil Handover Date, Temporary Chemical Dosing (Rev. 5)	1 day Thu 19/05/22	Thu 19/05/22			Tue 28/03/23	Tue 28/03/23	0 days				
866	866 5.22.7.2	Tentative Civil Handover Date, Chemical Pipe Trench (by others)	1 day Sun 01/05/22	Sun 01/05/22	Sun 01/05/22			Mon 18/09/23	51 days	868FF+50 days			
867	867 5.22.7.3	Commencement of E&M Installation at Temporary Chemical Dosing System	361 days Sat 09/04/22	Wed 05/04/23	Sat 09/04/22	Wed 05/04/2	3 Wed 29/03/23	Tue 13/02/24	313 days				
868	868 5.22.7.3.1	Mechanical Installations for E&M Equip. for Chemical Dosing System	n 90 edays Sat 09/04/22	Fri 08/07/22	Sat 09/04/22	Fri 08/07/22	Thu 10/08/23	Wed 08/11/23	0 edays 866FF+5	0 d:869SS+30 edays,870	ME - D x 2~4 men		
869	869 5.22.7.3.2	Electrical Installations for E&M Equip. for Chemical Dosing System	90 edays Mon 09/05/22	Sun 07/08/22	Mon 09/05/2	2 Sun 07/08/22	Sat 09/09/23	Fri 08/12/23	0 edays 86855+3	D ec870	EE - A x 4~6 men		
870	870 5.22.7.3.3		30 edays Sun 07/08/22	Tue 06/09/22	Sun 07/08/22	Tue 06/09/22	Fri 08/12/23	Sun 07/01/24	174 edays 868,869	871			
	871 5.22.7.3.4		30 edays Mon 27/02/23	Wed 29/03/23	Mon 27/02/2	3 Wed 29/03/2	3 Sun 07/01/24	Tue 06/02/24	0 edays 870,878	F 872			
	0113.22.1.3.4			Wed 05/04/23			3 Tue 06/02/24		308.63 ed 871	1278			
871	070		/ cuays weu 25/05/25										
	872 5.22.7.3.5 873 5.22.7.3.6		rı 314 days Fri 20/05/22	Wed 29/03/23	Fri 20/05/22	Wed 20/02/3	a Wed to /os /as	Mon 05/02/24	313 days				

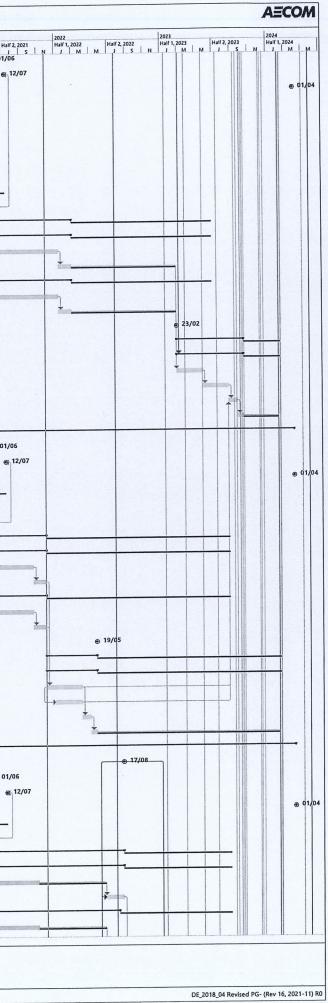


		epartment								Vorks for Sewage Treatmen					
ID	WBS Ta	sk Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessor	s Successors	Resource Names	2020 Half 1, 2020	Half 2, 20		If 1, 202
	745 22 7 2 6 1	Ughting and Power Distribution System, Temp. Chem	90 days Fri 20/05/22	Wed 17/08/22	Fri 20/05/22	Wed 17/08/22	Wed 29/03/23	Mon 26/06/23	0 days 865	878,875	BS - A x 4~6 men	M M M M		SNJ	'Ħ'
	74 5.22.7.3.6.:		90 days Thu 18/08/22		Thu 18/08/22		Tue 27/06/23	Sun 24/09/23	0 days 874	1214,1215,878,876	FS - A x 4~6 men				
_	375 5.22.7.3.6.:	Fire Services Installation, DG Stores, Temp. Chem	30 days Wed 16/11/2					Tue 24/10/23	0 days 875	877	EE - D x 4~6 men				
	376 5.22.7.3.6.:	Ughtning Protection System, Temp. Chem	14 days Fri 16/12/22	Thu 29/12/22	Fri 16/12/22			Tue 07/11/23	0 days 876	878	MVAC - A x 4~6 men				
_	377 5.22.7.3.6.4	Mechanical Ventilation System, Temp. Chem		Wed 29/03/23	Fri 30/12/22		Wed 08/11/23	Mon 05/02/24	0 days 874,875,8		BS - C x 2~4 men				
_	378 5.22.7.3.6.!	Testing and Commissioning of Building Services Installations, Tem	90 days Fri 30/12/22					Mon 01/04/24		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
9 8	379 5.23	Emergency Generator House, Portion B7 & B-7B (PS 6B.6.6)	1279 days Thu 01/10/20				Thu 01/10/20		0 days						
80 8	380 5.23.1	Planned Key Date Completion Date - KD1B, Emergency Generator House	0 days Tue 01/06/21				Tue 01/06/21	Tue 01/06/21	O days 884FF						
81 8	381 5.23.2	Planned Sectional Completion Date - Section 1, Emergency Generator Hor	0 days Mon 12/07/2	1 Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	0 days 885FF,886	FI					
82 8	882 5.23.3	Planned Sectional Completion Date - Section 2, Emergency Generator Hou	0 days Mon 01/04/2	4 Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	Mon 01/04/24	0 days 899FF						
83 8	383 5.23.4	Design Submissions for Emergency Generator Set	252 days Thu 01/10/20) Thu 10/06/21	Thu 01/10/20	Thu 10/06/21	Thu 01/10/20	Mon 12/07/21	33 days						T
84 8	884 5.23.4.1	CDS081-10 - Civil and dimensional requirements drawings for Emergen	90 days Fri 01/01/21	Wed 31/03/21	Fri 01/01/21	Wed 31/03/21	Fri 01/01/21	Wed 31/03/21	0 days	880FF					+
85 8	885 5.23.4.2	CDS061 - Detailed Design for Emergency Generator Set	150 edays Thu 01/10/20	Sun 28/02/21	Thu 01/10/20	Sun 28/02/21	Thu 01/10/20	Mon 12/07/21	134.38 ed	881FF				Berner Hanner Hanner	-
86 8	886 5.23.4.3	CDS034-6 - Detailed Design for Electrical Installations BS at Emergency	90 edays Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Thu 10/06/21	Fri 12/03/21	Mon 12/07/21	0 edays 140	888,893,881FF					
	887 5.23.5	Manufacturing and Delivery of Plant & Materials	285 days Thu 10/06/2	L Mon 21/03/22	Thu 10/06/21	Mon 21/03/22	2 Thu 16/02/23	Mon 27/11/23	616 days		and the second sec				
	888 5.23.5.1	Manufacturing and Factory Acceptance Test of Plant	240 days Thu 10/06/2	Fri 04/02/22	Thu 10/06/21	Fri 04/02/22	Thu 16/02/23	Fri 13/10/23	0 days 886	889					
			45 days Sat 05/02/22		Sat 05/02/22		Sat 14/10/23	Mon 27/11/23	589 days 888,891FF	-6894					
	889 5.23.5.2	Shipping and Delivery of Plant to Site					Wed 01/12/21		27 days						
	890 5.23.6	Site Installation Work	826 days Wed 01/12/					1	1 day	868FF+50 days,889FF-60					
	891 5.23.6.1	Tentative Civil Handover Date, Emergency Generator House (Rev. 5)	1 day Thu 19/05/2				Mon 18/09/23			30011 30 days,00317-00		Caracteristic Streams			
92	892 5.23.6.2	Commencement of E&M Installation at Emergency Generator House	826 days Wed 01/12/				Wed 01/12/21		27 days						
193	893 5.23.6.2.1	Application for EPD's Approval for Installation of Diesel Engine Gener	60 days Wed 01/12/2	1 Sat 29/01/22		Sat 29/01/22		Mon 27/11/23	640 days 886	894					
94	894 5.23.6.2.2	Installation and SAT of Emergency Power Generator and associated v	60 days Wed 01/11/2	23 Sat 30/12/23	Wed 01/11/2	Sat 30/12/23	Tue 28/11/23	Fri 26/01/24	0 days 893,889	896	GS - A x 4 men				
95	895 5.23.6.2.3	Building Services Installation at Emergency Generator House	66 days Sun 31/12/2	3 Tue 05/03/24	Sun 31/12/23	Tue 05/03/24	Sat 27/01/24	Mon 01/04/24	27 days						
96	896 5.23.6.2.3.:	Fire Services Installation, GH	30 days Sun 31/12/2	3 Mon 29/01/24	Sun 31/12/23	Mon 29/01/24	4 Sat 27/01/24	Sun 25/02/24	0 days 894	897	FS - A x 4~6 men				
	897 5.23.6.2.3.:	Mechanical Ventilation System, GH	14 days Tue 30/01/2	4 Mon 12/02/24	Tue 30/01/24	Mon 12/02/24	Mon 26/02/24	Sun 10/03/24	0 days 896	898	MVAC - A x 4~6 men				
	898 5.23.6.2.3.	Lightning Protection System, GH	15 days Tue 13/02/2	4 Tue 27/02/24	Tue 13/02/24	Tue 27/02/24	Mon 11/03/24	Mon 25/03/24	0 days 897	899	EE - D x 4~6 men				
	899 5.23.6.2.3.4	Testing and Commissioning of Building Services Installation, GH	7 days Wed 28/02/	24 Tue 05/03/24	Wed 28/02/24	Tue 05/03/24	Tue 26/03/24	Mon 01/04/24	27 days 898	882FF	BS-Ax4~6 men				
		-	1583 days Mon 02/12/		Mon 02/12/1	9 Mon 01/04/2	4 Mon 02/12/19	Mon 01/04/24	0 days				+-+		+
	900 5.24	Deodorization System, DOU 1, Portion B7 & B-7B (PS 6B.2.6)	0 days Tue 01/06/2				Tue 01/06/21	Tue 01/06/21	0 days 914FF,915	SEL					
901	9015.24.1	Planned Key Date Completion Date - KD1B, DOU 1													
302	902 5.24.2	Planned Sectional Completion Date - Section 1, DOU 1	0 days Mon 12/07/				1 Mon 12/07/21	- page	0 days 916FF						
903	903 5.24.3	Planned Sectional Completion Date - Section 2, DOU 1	0 days Mon 01/04/	24 Mon 01/04/24	in the second		4 Mon 01/04/24		0 days						
904	904 5.24.4	Selection of Plant and Materials	485 days Mon 02/12/	19 Tue 30/03/21	Mon 02/12/1	9 Tue 30/03/21	Mon 02/12/19	Mon 28/06/21	90 days						
905	905 5.24.4.1	DOU - biotrickling filter (DOU No. 1), C11, ref. EQT001	194 days Mon 02/12/	19 Fri 12/06/20	Mon 02/12/1	9 Fri 12/06/20	Mon 02/12/19	Fri 12/06/20	0 days						
906	906 5.24.4.1.1	Submission for acceptance of purchasing package	120 days Mon 02/12/	19 Mon 30/03/20	Mon 02/12/1	9 Mon 30/03/20	0 Mon 02/12/19	Mon 30/03/20	0 days	907					
907	907 5.24.4.1.2	Invitation of quotations for purchasing package	60 days Tue 31/03/2	0 Fri 29/05/20	Tue 31/03/20	Fri 29/05/20	Tue 31/03/20	Fri 29/05/20	0 days 906	908		<u> </u>	1		
908	908 5.24.4.1.3	Acceptance of conforming quotation (Completed)	14 days Sat 30/05/2	Fri 12/06/20	Sat 30/05/20	Fri 12/06/20	Sat 30/05/20	Fri 12/06/20	0 days 907	916			ž –		-
	909 5.24.4.2	DOU - FRP air ductwork, C11, EQT047	120 days Tue 01/12/2	0 Tue 30/03/21	Tue 01/12/20	Tue 30/03/21	Tue 01/12/20	Mon 28/06/21	90 days						+
		Submission for acceptance of purchasing package	60 days Tue 01/12/2		Tue 01/12/20	Fri 29/01/21	Tue 01/12/20	Thu 29/04/21	0 days	911				•	5
	9105.24.4.2.1		30 days Sat 30/01/2			Sun 28/02/21		Sat 29/05/21	0 days 910	912				1	-
	911 5.24.4.2.2	Invitation of quotations for purchasing package					Sun 30/05/21	Mon 28/06/21	0 days 911	916					
912	9125.24.4.2.3	Acceptance of conforming quotation	30 days Mon 01/03/												_
913	913 5.24.5	Design Submissions for DOU No. 1	359 days Wed 15/07/				Wed 15/07/20		4 days	00155	and a second		-		
914	914 5.24.5.1	Electrical schematic drawings for Deodorisation Systems	90 days Wed 15/07/				0 Wed 15/07/20		0 days	901FF					
915	915 5.24.5.2	CDS081-7 - Civil and dimensional requirements drawings for DOU No. 1	70 days Fri 28/08/20	Thu 05/11/20	Fri 28/08/20		Fri 28/08/20	Thu 05/11/20	0 days	901FF					1
916	916 5.24.5.3	CDS007-1 - Detailed Design for Deodorisation System, DOU No. 1	100 edays Tue 30/03/2	1 Thu 08/07/21	Tue 30/03/21	Thu 08/07/21	Tue 30/03/21	Mon 12/07/21	0.63 edays 908,912	919,922,902FF					
917	917 5.24.6	Manufacturing and Delivery of Plant & Materials	299 days Fri 09/07/2	L Tue 03/05/22	Fri 09/07/21	Tue 03/05/22	Mon 14/11/22	Fri 25/08/23	479 days						
918	918 5.24.6.1	DOU 1	299 days Fri 09/07/2	L Tue 03/05/22	Fri 09/07/21	Tue 03/05/22	2 Mon 14/11/22	Fri 25/08/23	479 days						
919	919 5.24.6.1.1	Manufacturing and Factory Acceptance Test of Plant	240 days Fri 09/07/2		Fri 09/07/21	Sat 05/03/22	Mon 14/11/22	Tue 11/07/23	14 days 916	920					
920	920 5.24.6.1.2	Shipping and Delivery of Plant to site	45 days Sun 20/03/2				Wed 12/07/23	Fri 25/08/23	45 days 919,9255	S-6928					
			299 days Fri 09/07/2		Fri 09/07/21		2 Sat 24/12/22	Fri 25/08/23	479 days						
921	921 5.24.6.2	FRP Air Ductwork					2 Sat 24/12/22	Tue 11/07/23	54 days 916	923					
922	922 5.24.6.2.1	Manufacturing and Factory Acceptance Test of Plant	200 days Fri 09/07/2												
923	923 5.24.6.2.2	Shipping and Delivery of Plant to Site	45 days Sun 20/03/				Wed 12/07/23		45 days 922,9255						
924	924 5.24.7	Site Installation Work	201 days Thu 19/05/				2 Fri 25/08/23	Tue 13/02/24	434 days						
925	925 5.24.7.1	Tentative Civil Handover, DOU 1 (Rev. 5)	1 day Thu 19/05/	22 Thu 19/05/22	Thu 19/05/23	2 Thu 19/05/22	2 Fri 25/08/23	Fri 25/08/23	0 days	928FF+45 days,92055-6	U				
926	926 5.24.7.2	Tentative Civil Handover Date, underground air pipework for DOU 1 (b	1 day Mon 01/08	/22 Mon 01/08/22	Mon 01/08/2	2 Mon 01/08/2	2 Mon 09/10/23	Mon 09/10/23	30 days	928FF+45 days					
927	927 5.24.7.3	Commencement of E&M Installation at DOU 1	171 days Fri 17/06/2	2 Mon 05/12/22	Fri 17/06/22	Mon 05/12/2	22 Sat 26/08/23	Tue 13/02/24	434 days						
928	928 5.24.7.3.1	Mechanical Installations for DOU 1	90 edays Fri 17/06/2	2 Thu 15/09/22	Fri 17/06/22	Thu 15/09/22	2 Sat 26/08/23	Fri 24/11/23	0 edays 926FF+45	6 d:92955+30 edays,930	ME - F x 4~6 men				
929	929 5.24.7.3.2		90 edays Sun 17/07/	22 Sat 15/10/22	Sun 17/07/2	2 Sat 15/10/22	Mon 25/09/23	Sun 24/12/23	0 edays 92855+30) e(930	EE - C x 4~6 men				
930	930 5.24.7.3.3	Site Acceptance Test for DOU1	30 edays Sat 15/10/2		Sat 15/10/22	Mon 14/11/2	2 Sun 24/12/23	Tue 23/01/24	0 edays 928,929	931	a				
	930 5.24.7.3.3		21 edays Mon 14/11				2 Tue 23/01/24	Tue 13/02/24	429.63 ed 930	1278	a na nanana ana ana ana ana ana ana ana				
931	931 5.24.7.3.4		1583 days Mon 02/12					Mon 01/04/24	0 days						_
932		Deodorization System, DOU 2A, Portion B-4 (PS 6B.2.6)	1303 days with 02/12											L	



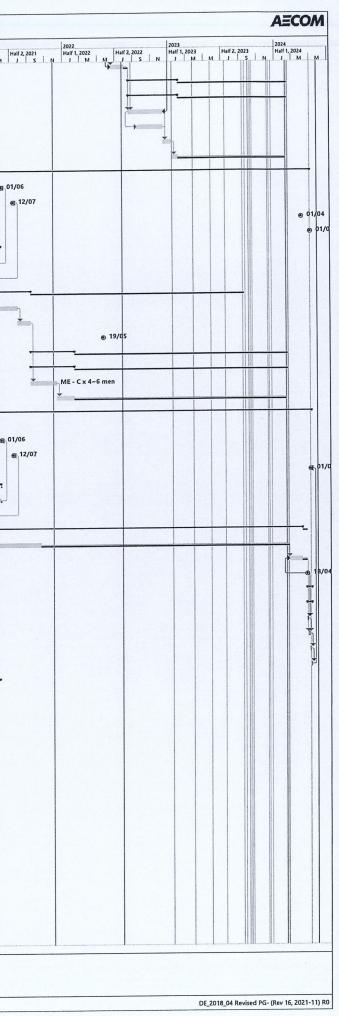
2-		epartment							ain Works Stage 1 E&M W					lass	-
ID	D WBS Ta	ask Name	Duration between Task Start Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessors	Successors	Resource Names	2020 Half 1, 2020 N J M M	Half 2, 2020	2021 Half 1, 2021	1.
33	933 5.25.1	Planned Key Date Completion Date - KD1B, DOU 2A	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days						1 1
	934 5.25.2	Planned Sectional Completion Date - Section 1, DOU 2A	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	0 days 942FF						
_	935 5.25.3	Planned Sectional Completion Date - Section 2, DOU 2A	0 days Mon 01/04/24	Mon 01/04/24			Mon 01/04/24	Mon 01/04/24	0 days						
	936 5.25.4	Selection of Plant and Materials	194 days Mon 02/12/19	Fri 12/06/20		Fri 12/06/20	Mon 02/12/19	Fri 12/06/20	0 days						
		DOU - activated carbon filter (DOU No. 2A, No. 3A, No. 3B), C11, ref.	194 days Mon 02/12/19	Fri 12/06/20		Fri 12/06/20	Mon 02/12/19		0 days						
1	937 5.25.4.1	EQT028	139 00 10 110 110 12 12 12												
8	9385.25.4.1.1	Submission for acceptance of purchasing package	120 days Mon 02/12/19	Mon 30/03/20	Mon 02/12/19	Mon 30/03/20	Mon 02/12/19	Mon 30/03/20	0 days	939					
	939 5.25.4.1.2	Invitation of quotations for purchasing package	60 days Tue 31/03/20	Fri 29/05/20	Tue 31/03/20	Fri 29/05/20	Tue 31/03/20	Fri 29/05/20	0 days 938	940		<u> </u>			
	940 5.25.4.1.3	Acceptance of conforming quotation (Completed)	14 days Sat 30/05/20	Fri 12/06/20	Sat 30/05/20	Fri 12/06/20	Sat 30/05/20	Fri 12/06/20	0 days 939	942,963,984		Ě			
	941 5.25.5	Design Submissions for DOU No. 2A	200 days Tue 01/09/20	Sat 20/03/21	Tue 01/09/20	Sat 20/03/21	Tue 01/09/20	Mon 12/07/21	115 days						-
	942 5.25.5.1	CDS007-2 - Detailed Design for Deodorisation System, DOU No. 2A	200 edays Tue 01/09/20	Sat 20/03/21		Sat 20/03/21		Mon 12/07/21	0 edays 940	945,948,934FF					
_			345 days Sat 20/03/21	Sun 27/02/22			Sun 17/07/22	Mon 26/06/23	484 days					-	
_	943 5.25.6	Manufacturing and Delivery of Plant & Materials	345 days Sat 20/03/21	Sun 27/02/22			Sun 17/07/22	Mon 26/06/23	484 days					-	
	944 5.25.6.1	DOU 2A	300 days Sat 20/03/21	Thu 13/01/22	Sat 20/03/21		Sun 17/07/22	Fri 12/05/23	0 days 942	946				1	
	945 5.25.6.1.1	Manufacturing and Factory Acceptance Test of Plant			Fri 14/01/22		Sat 13/05/23	Mon 26/06/23	361 days 945	953					
5	946 5.25.6.1.2	Shipping and Delivery of Plant to site	45 days Fri 14/01/22	Sun 27/02/22				Mon 26/06/23	484 days					4	_
	947 5.25.6.2	FRP Air Ductwork	345 days Sat 20/03/21	Sun 27/02/22	Sat 20/03/21		Sun 17/07/22			949					
8	9485.25.6.2.1	Manufacturing and Factory Acceptance Test of Plant	300 days Sat 20/03/21	Thu 13/01/22	Sat 20/03/21		Sun 17/07/22	Fri 12/05/23	0 days 942						
•	949 5.25.6.2.2	Shipping and Delivery of Plant to site	45 days Fri 14/01/22	Sun 27/02/22	Fri 14/01/22		Sat 13/05/23	Mon 26/06/23	361 days 948	953					
)	950 5.25.7	Tentative Civil Handover, DOU 2A (Rev. 5)	1 day Thu 23/02/23	Thu 23/02/23	Thu 23/02/23		Thu 23/02/23	Thu 23/02/23	0 days						
1	951 5.25.8	Site Installation Work	231 days Thu 23/02/23	Thu 12/10/23			Tue 27/06/23	Tue 13/02/24	123 days						
	952 5.25.8.1	Commencement of E&M Installation at DOU 2A	231 days Thu 23/02/23	Thu 12/10/23			Tue 27/06/23	Tue 13/02/24	123 days 570						
1	953 5.25.8.1.1	Mechanical Installations for DOU 2A	90 edays Thu 23/02/23	Wed 24/05/23	Thu 23/02/23	Wed 24/05/23	3 Tue 27/06/23	Mon 25/09/23	0 edays 946,949	954	ME - F x 4~6 men				
	954 5.25.8.1.2	Electrical Installations for DOU 2A	90 edays Wed 24/05/23	Tue 22/08/23	Wed 24/05/23	3 Tue 22/08/23	Mon 25/09/23	Sun 24/12/23	0 edays 953	955	EE - C x 4~6 men				
5	955 5.25.8.1.3	Site Acceptance Test for E&M Equip for DOU 2A	30 edays Tue 22/08/23	Thu 21/09/23	Tue 22/08/23	Thu 21/09/23	Sun 24/12/23	Tue 23/01/24	0 edays 974,975,9	54956					
6	956 5.25.8.1.4	System Commissioning Test for DOU 2A	21 edays Thu 21/09/23	Thu 12/10/23	Thu 21/09/23	Thu 12/10/23	Tue 23/01/24	Tue 13/02/24	118.63 ed 955	1278					
-	957 5.26	Deodorization System, DOU 3A, Portion B7 & B-7B (PS 6B.2.6)	1313 days Fri 28/08/20	Mon 01/04/24	Fri 28/08/20	Mon 01/04/2	4 Fri 28/08/20	Mon 01/04/24	0 days						
B	9585.26.1	Planned Key Date Completion Date - KD1B, DOU 3A	0 days Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 962FF						
9	959 5.26.2	Planned Sectional Completion Date - Section 1, DOU 3A	0 days Mon 12/07/21	Mon 12/07/21	Mon 12/07/2	1 Mon 12/07/2	1 Mon 12/07/21	Mon 12/07/21	0 days 963FF						
_		Planned Sectional Completion Date - Section 2, DOU 3A	0 days Mon 01/04/24	Mon 01/04/24			4 Mon 01/04/24		0 days						
0	960 5.26.3		234 days Fri 28/08/20	Mon 19/04/21	Fri 28/08/20		1 Fri 28/08/20	Mon 12/07/21	85 days						-
51	961 5.26.4	Design Submissions for DOU No. 3A		Mon 15/03/21	Fri 28/08/20		1 Fri 28/08/20	Mon 15/03/21	0 days	958FF					
52	9625.26.4.1	CDS081-8 - Civil and dimensional requirements drawings for DOU No.					1 Thu 01/10/20	Mon 12/07/21	0 edays 940	966,969,959FF					-
53	963 5.26.4.2	CDS007-3 - Detailed Design for Deodorisation System, DOU No. 3A	200 edays Thu 01/10/20	Mon 19/04/21	Thu 01/10/20				634 days	500,503,55511					
64	964 5.26.5	Manufacturing and Delivery of Plant & Materials	225 days Mon 19/04/21	Tue 30/11/21		1 Tue 30/11/21		Sat 26/08/23				Appander and the second s			
55	965 5.26.5.1	DOU 3A	225 days Mon 19/04/21	Tue 30/11/21		1 Tue 30/11/21		Sat 26/08/23	634 days	067					-
66	966 5.26.5.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 19/04/21	Sat 16/10/21		1 Sat 16/10/21		Wed 12/07/23	0 edays 963	967					
57	967 5.26.5.1.2	Shipping and Delivery of Plant to Site	45 edays Sat 16/10/21	Tue 30/11/21			Wed 12/07/23		0 edays 966	974					
8	968 5.26.5.2	FRP Air Ductwork	225 days Mon 19/04/21	Tue 30/11/21		1 Tue 30/11/21		Sat 26/08/23	634 days						
59	969 5.26.5.2.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 19/04/21	Sat 16/10/21		1 Sat 16/10/21		Wed 12/07/23	0 edays 963	970					
70	970 5.26.5.2.2	Shipping and Delivery of Plant to Site	45 edays Sat 16/10/21	Tue 30/11/21	Sat 16/10/21	Tue 30/11/21	Wed 12/07/23	Sat 26/08/23	0 edays 969	974					
71	971 5.26.6	Tentative Civil Handover, DOU 3A (Rev. 5)	1 day Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	2 Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days						
2	972 5.26.7	Site Installation Work	171 days Tue 30/11/21	Fri 20/05/22	Tue 30/11/21	L Fri 20/05/22	Sat 26/08/23	Tue 13/02/24	634 days						
73	973 5.26.7.1	Commencement of E&M Installation at DOU 3A	171 days Tue 30/11/21	Fri 20/05/22	Tue 30/11/2	L Fri 20/05/22	Sat 26/08/23	Tue 13/02/24	634 days						
74	974 5.26.7.1.1	Mechanical Installations for DOU 3A	120 edays Tue 30/11/21	Wed 30/03/22	Tue 30/11/21	Wed 30/03/2	2 Sat 26/08/23	Sun 24/12/23	0 edays 970,967	97555+30 edays,976,9	955 ME - F x 4~6 men				
75	975 5.26.7.1.2	Electrical Installations for DOU 3A	90 edays Thu 30/12/21	Wed 30/03/22	Thu 30/12/21	Wed 30/03/2	2 Mon 25/09/23	Sun 24/12/23	0 edays 97455+30	ec976,955	EE - D x 4~6 men				
16	976 5.26.7.1.3	Site Acceptance Test for E&M Equip for DOU 3A	30 edays Wed 30/03/22	Fri 29/04/22	Wed 30/03/2	2 Fri 29/04/22	Sun 24/12/23	Tue 23/01/24	0 edays 974,975	977					
77	977 5.26.7.1.4	System Commissioning Test for DOU 3A	21 edays Fri 29/04/22	Fri 20/05/22			Tue 23/01/24	Tue 13/02/24	629 edays 976	1278					
		Deodorization System, DOU 3B, Portion B-5B (PS 6B.2.6)	1265 days Thu 15/10/20	Mon 01/04/24			4 Thu 15/10/20								-
78	978 5.27			Wed 17/08/22		2 Wed 17/08/2		Fri 25/08/23	0 days	994FF+30 days,988SS	-60				
79	979 5.27.1	Tentative Civil Handover Date, underground air pipework for DOU 3B (b	0 days Tue 01/06/21	Tue 01/06/21			Tue 01/06/21		0 days						
80	980 5.27.2	Planned Key Date Completion Date - KD1B, DOU 3B						Mon 12/07/21	0 days 984FF						
11	981 5.27.3	Planned Sectional Completion Date - Section 1, DOU 3B	0 days Mon 12/07/21	Mon 12/07/21								A ALCONTRACTOR AND			
2	982 5.27.4	Planned Sectional Completion Date - Section 2, DOU 3B	0 days Mon 01/04/24	Mon 01/04/24				Mon 01/04/24							_
13	983 5.27.5	Design Submissions for DOU No. 3B	200 days Thu 15/10/20	Mon 03/05/21			21 Thu 15/10/20			007.000.00155		an and a second s			
34	984 5.27.5.1	CDS007-4 - Detailed Design for Deodorisation System, DOU No. 3B	200 edays Thu 15/10/20	Mon 03/05/21			1 Thu 15/10/20			987,990,981FF					
15	985 5.27.6	Manufacturing and Delivery of Plant & Materials	471 days Mon 03/05/21	Wed 17/08/22			22 Thu 29/12/22		374 days			an a distance of the second			
86	986 5.27.6.1	DOU 3B	471 days Mon 03/05/21	Wed 17/08/22	Mon 03/05/2	21 Wed 17/08/2	22 Thu 29/12/22		374 days						
987	987 5.27.6.1.1	Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 03/05/21	Sat 30/10/21	Mon 03/05/2	21 Sat 30/10/21	Thu 29/12/22	Tue 27/06/23	231 edays 984	988					
88	988 5.27.6.1.2	Shipping and Delivery of Plant to Site	60 edays Sat 18/06/22	Wed 17/08/22	Sat 18/06/22	Wed 17/08/2	2 Tue 27/06/23	Sat 26/08/23	0 edays 987,9795	5-6994					
989	989 5.27.6.2	FRP Air Ductwork	456 days Mon 03/05/21	Tue 02/08/22	Mon 03/05/3	21 Tue 02/08/2	2 Fri 13/01/23	Sat 26/08/23	389 days						
990		Manufacturing and Factory Acceptance Test of Plant	180 edays Mon 03/05/21	Sat 30/10/21	Mon 03/05/2	21 Sat 30/10/21	Fri 13/01/23	Wed 12/07/23	231 edays 984	991					
												and the second s			

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	unc -	h Mana	Duration between Task Start		Finish	Early Start	Early Finish	Late Start	Polishing Plant - M		ssors Successors	Resource Names	2020	2
ID V	WBS Tas	k Name	Start and Finish		i man	Lony Start	cony runsu			revele			Half 1, 2020 Half 1, 2020 N J M M J	2, 2020 H
91 991 9	5.27.6.2.2	Shipping and Delivery of Plant to Site	45 edays Sat 1	18/06/22	Tue 02/08/22	Sat 18/06/22	Tue 02/08/22	Wed 12/07/23	Sat 26/08/23	15 edays 990,97	955-6994			1.000
92 992 5	5.27.7	Site Installation Work	171 days Wed	17/08/22	Sat 04/02/23	Wed 17/08/22	Sat 04/02/23	Sat 26/08/23	Tue 13/02/24	374 days				
93 993 5	5.27.7.1	Commencement of E&M Installation at DOU 3B	171 days Wed	1 17/08/22	Sat 04/02/23	Wed 17/08/22	Sat 04/02/23	Sat 26/08/23	Tue 13/02/24	374 days				
94 994 9	5.27.7.1.1	Mechanical Installations for DOU 3B	120 edays Wed	17/08/22	Thu 15/12/22	Wed 17/08/22	Thu 15/12/22	Sat 26/08/23	Sun 24/12/23	0 edays 979FF+	30 d:99555+30 edays,996	ME - F x 4~6 men		
95 995 9	5.27.7.1.2	Electrical Installations for DOU 3B	90 edays Fri 1	6/09/22	Thu 15/12/22	Fri 16/09/22	Thu 15/12/22	Mon 25/09/23	Sun 24/12/23	0 edays 99455+	30 ec996	EE - D x 4~6 men		
96 996	5.27.7.1.3	Site Acceptance Test for E&M Equip for DOU 3B	30 edays Thu	15/12/22	Sat 14/01/23	Thu 15/12/22	Sat 14/01/23	Sun 24/12/23	Tue 23/01/24	0 edays 994,99	5 997			
97 997	5.27.7.1.4	System Commissioning Test for DOU 3B	21 edays Sat :	14/01/23	Sat 04/02/23	Sat 14/01/23	Sat 04/02/23	Tue 23/01/24	Tue 13/02/24	369 edays 996	1278			
98 998		Flowmeter and Valve Chambers, Portion B7 & B-7B (PS 6B.2.13)	1278 days Sun	01/11/20	Wed 01/05/24	Sun 01/11/20	Wed 01/05/24	Sun 01/11/20	Wed 01/05/24	0 days				-
	5.28.1	Planned Key Date Completion Date - KD1B, Chambers	0 days Tue		Tue 01/06/21		Tue 01/06/21		Tue 01/06/21	0 days 1004Ff				
	5.28.2	Planned Sectional Completion Date - Social Chambers	0 days Mor		Mon 12/07/21			Mon 12/07/21		0 days 1005FF				
001 1001		Planned Sectional Completion Date - Section 2, Chambers	0 days Mor		Mon 01/04/24			Mon 01/04/24	Mon 01/04/24	0 days			And and a second se	
1		Planned Sectional Completion Date - Section 2, chambers	0 days Wee		Wed 01/05/24			Wed 01/05/24	Wed 01/05/24	0 days				
002 1002			210 days Sun		Sat 29/05/21				Sat 29/05/21	0 days				
003 1003		Design Submissions for Valve and Flowmeter Chambers	90 days Mo					Mon 01/03/21		0 days	999FF		a su	
004 1004		CDS081-9 - Civil and dimensional requirements drawings for Valve and			Sat 29/05/21								na nanovi da Alexandra	
005 1005	5.28.5.2	CDS018 - Detailed Design for Flowmeter and Valve Chambers	90 edays Sun		Sat 30/01/21		Sat 30/01/21		Sat 30/01/21	0 edays	1007,1000FF			
006 1005	5.28.6	Manufacturing and Delivery of Plant & Materials	225 days Sat		Sat 11/09/21		Sat 11/09/21		Fri 15/09/23	734 days				
007 1007	5.28.6.1	Manufacturing and Factory Acceptance Test of Plant	180 days Sat	30/01/21	Wed 28/07/21		Wed 28/07/21		Tue 01/08/23	0 days 1005	1008			
008 1008	5.28.6.2	Shipping and Delivery of Plant to Site	45 days Thu	29/07/21	Sat 11/09/21	Thu 29/07/21	Sat 11/09/21	Wed 02/08/23	Fri 15/09/23	0 days 1007	1012			
009 1009	5.28.7	Tentative Civil Handover, Chambers (Rev. 5)	1 day Thu	19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	Thu 19/05/22	0 days				
010 1010	5.28.8	Site Installation Work	150 days Sun	12/09/21	Tue 08/02/22	Sun 12/09/21	Tue 08/02/22	Sat 16/09/23	Mon 12/02/24	734 days				
011 1011	5.28.8.1	Commencement of Valves and Flowmeters Installation at Chambers	150 days Sun	12/09/21	Tue 08/02/22	Sun 12/09/21	Tue 08/02/22	Sat 16/09/23	Mon 12/02/24	734 days				
012 1012	5.28.8.1.1	Installation of valves and flowmeters	90 days Sun	12/09/21	Fri 10/12/21	Sun 12/09/21	Fri 10/12/21	Sat 16/09/23	Thu 14/12/23	0 days 1008	1013	ME - C x 4~6 men		
1013 1013		cables laying and terminations	60 days Sat	11/12/21	Tue 08/02/22	Sat 11/12/21	Tue 08/02/22	Fri 15/12/23	Mon 12/02/24	729 days 1012	1278	EE - A x 4~6 men		
014 1014		Underground Pipework, Modification and Connection Works, Portion	1161 days Mo		Sat 04/05/24	Mon 01/03/21	Sat 04/05/24	Wed 03/03/21	Wed 01/05/24	0 days				
-014		B-9B (PS 6B.2.22)												
015 1015	5.29.1	Planned Key Date Completion Date - KD1B, UU	0 days Tue	01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 1019F				
1016 1016		Planned Sectional Completion Date - Section 1, Underground Pipework		n 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	Mon 12/07/21	0 days 1020F	1			
1017 1017		Planned Sectional Completion Date - Section 4, Underground Pipework		d 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	0 days 1030F	•		And and a second s	
		Design Submissions		n 01/03/21	Sun 30/05/21				Mon 12/07/21					
1018 1018		Design Submissions CDS015 - Detailed Design for Underground Pipework Modification and	90 edays Mo		Sun 30/05/21			Wed 03/03/21		2.38 edays	1015FF			
1019 1019					Tue 20/04/21			Sun 23/05/21	Mon 12/07/21		1022,1016FF		the more experiment	
1020 1020		CDS016 - Detailed Design for Temporary Pumping System for maintain						Thu 07/09/23	Thu 18/04/24	16 days				
1021 1021		Manufacturing and Delivery of Plant & Materials	1079 days Tu		Tue 02/04/24					· · · · · · · · · · · · · · · · · · ·	1023			
1022 1022		Manufacturing and Factory Acceptance Test of Plant	180 days Tu		Sat 16/10/21		Sat 16/10/21	Thu 07/09/23	Mon 04/03/24					
1023 1023	5.29.5.2	Shipping and Delivery of Plant to Site	45 days Sur		Tue 02/04/24	Sun 18/02/24		Tue 05/03/24	Thu 18/04/24	16 days 1022,1				
1024 1024	5.29.6	Tentative Civil Handover, Road (Rev. 5)	1	u 18/04/24	Thu 18/04/24	Thu 18/04/24		Mon 15/04/24			102355-60 edays,1027			
1025 1025	5.29.7	Site Installation	16 days Fri		Sat 04/05/24			Tue 16/04/24					an one of a second s	
1026 1026	5.29.7.1	Commencement of underground pipework modification and connection wo	16 days Fri	19/04/24	Sat 04/05/24	Fri 19/04/24	Sat 04/05/24	Tue 16/04/24	Wed 01/05/24	0 days				
1027 1027	7 5.29.7.1.1	Temporary Flow Diversion and Road Excavation Work	3 days Fri	19/04/24	Sun 21/04/24	Fri 19/04/24	Sun 21/04/24	Tue 16/04/24	Thu 18/04/24	0 days 1024	1028			
1028 1028	8 5.29.7.1.2	Pipe Laying and connection works	7 days Mo	on 22/04/24	Sun 28/04/24	Mon 22/04/24	Sun 28/04/24	Fri 19/04/24	Thu 25/04/24	0 days 1027,1	023 1029			
1029 1029	9 5.29.7.1.3	Pressure Tests	3 days Mo	on 29/04/24	Wed 01/05/24	Mon 29/04/24	Wed 01/05/24	Fri 26/04/24	Sun 28/04/24	0 days 1028	1030			
1030 1030	0 5.29.7.1.4	Make Good	3 daysThi	02/05/24	Sat 04/05/24	Thu 02/05/24	Sat 04/05/24	Mon 29/04/24	Wed 01/05/24	0 days 1029	1017FF			
1031 103	15.30	Temporary Filtrate Lifting Well and Eq. Tank, Portion B-3B (PS 6B.2.16)	450 days Me	on 02/03/20	Tue 25/05/21	Mon 02/03/20	Tue 25/05/21	Mon 02/03/20	Tue 25/05/21	0 days				
1032 1032		Selection of Suppliers for major plant and materials and Civil Subcontra	c 196 days Me	on 02/03/20	Sun 13/09/20	Mon 02/03/20	Sun 13/09/20	Mon 02/03/20	Sun 13/09/20	0 days				+
	3 5.30.1.1	Mis - filtrate lift pumps and filtrate transfer pumps, C11, ref. EQT011	1	on 02/03/20	Wed 13/05/20			Mon 02/03/20	Wed 13/05/20	0 days				
		Submission for acceptance of purchasing package		on 02/03/20	Mon 30/03/20	Mon 02/03/20	Mon 30/03/20	Mon 02/03/20	Mon 30/03/20	0 days	1035			
	4 5.30.1.1.1			e 31/03/20	Wed 29/04/20	Tue 31/03/20		Tue 31/03/20	Wed 29/04/20	0 days 1034	1036			
	5 5.30.1.1.2	Invitation of quotations for purchasing package							Wed 13/05/20	0 days 1034	1055,1058			
1036 103	6 5.30.1.1.3	Acceptance of conforming quotation and acceptance for Manufacture (Cor		u 30/04/20	Wed 13/05/20	Thu 30/04/20		Thu 30/04/20			1033,1030			
1037 103	75.30.1.2	Mis - Instrumentations		on 02/03/20	Wed 13/05/20				Wed 13/05/20					
1038 103	85.30.1.2.1	Submission for acceptance of purchasing package		on 02/03/20	Mon 30/03/20			Mon 02/03/20			1039			
1039 103	95.30.1.2.2	Invitation of quotations for purchasing package	30 days Tu	e 31/03/20	Wed 29/04/20	Tue 31/03/20	Wed 29/04/20	Tue 31/03/20	Wed 29/04/20		1040			
1040 104	0 5.30.1.2.3	Acceptance of conforming quotation and acceptance for Manufactu	ii 14 days Th	u 30/04/20	Wed 13/05/20) Thu 30/04/20	Wed 13/05/20	1	1055,1061			
1041 104	15.30.1.3	Mis - Pipework (To be provided by Mechanical Sub-Contactor)	42 days M	on 03/08/20	Sun 13/09/20	Mon 03/08/2) Sun 13/09/20	Mon 03/08/20	Sun 13/09/20	0 days				T
1042 104	25.30.1.3.1	Submission for acceptance of purchasing package	7 days M	on 03/08/20	Sun 09/08/20	Mon 03/08/20	Sun 09/08/20	Mon 03/08/20	Sun 09/08/20	0 days	1043			1
	3 5.30.1.3.2	Invitation of quotations for purchasing package	14 days M	on 10/08/20	Sun 23/08/20	Mon 10/08/20	Sun 23/08/20	Mon 10/08/20	Sun 23/08/20	0 days 1042	1044			ž
	45.30.1.3.3	Acceptance of conforming quotation and acceptance for Manufactor	u 21 days M	on 24/08/20	Sun 13/09/20	Mon 24/08/20	Sun 13/09/20	Mon 24/08/20	Sun 13/09/20	0 days 1043	1055,1064			Ť
	5 5.30.1.4	Mis - Valve (To be provided by Mechanical Sub-Contractor)		on 03/08/20	Sun 13/09/20	Mon 03/08/2	0 Sun 13/09/20	Mon 03/08/20	Sun 13/09/20	0 days				-++
	65.30.1.4.1	Submission for acceptance of purchasing package		on 03/08/20	Sun 09/08/20) Sun 09/08/20			0 days	1047			<u>-</u>
	75.30.1.4.2	Invitation of quotations for purchasing package		on 10/08/20	Sun 23/08/20) Sun 23/08/20			0 days 1046	1048			*
		Acceptance of conforming quotation and acceptance for Manufactu		on 24/08/20	Sun 13/09/20			Mon 24/08/20		0 days 1047	1055,1067			×
1040 100	85.30.1.4.3	Accelerance of contonning destation and accelerance for Manufact	T and all	,,			1	1		1				

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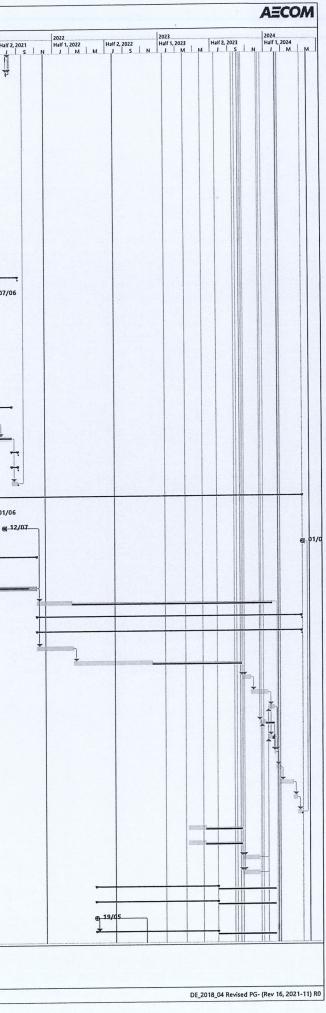


Drainage Services Departr	ment					Shek	Wu Hui Effluent P		Vork Programme for ain Works Stage 1 E	&M Works for Sewage Treatme	nt Facilities							
ID WBS Task Na	me	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Prede	cessors Successors	Resource Names	2020 Half 1, 2020	Half 2, 2020	2021 Half 1, 2021	Half 2, 2021	2022 Half 1, 2022 Half	2023 If 2, 2022 Half 1, 2023 I S N J M	
1049 5.30.1.5	Civil Work Subletting Package (Repeated WBS 5.13.17)		ys Tue 14/07/20	Sat 01/08/20	Tue 14/07/20	Sat 01/08/20	Tue 14/07/20	Sat 01/08/20	0 days			N J M M		NJMI	MJS			
10505.30.1.5.1	Submission for acceptance of subletting package		ys Tue 14/07/20	Thu 16/07/20		Thu 16/07/20		Thu 16/07/20	0 days	1051		ananaka, ili katapa per	ъ III					
10515.30.1.5.2	Invitation of tender for subletting package		ys Fri 17/07/20	Thu 30/07/20		Thu 30/07/20		Thu 30/07/20	0 days 1050				±					
2 10525.30.1.5.3	Acceptance of conforming quotation and acceptance for Manufactu		ys Fri 31/07/20	Sat 01/08/20		Sat 01/08/20		Sat 01/08/20	0 days 1051		.0		÷					
	Design Submissions for Temporary Filtrate Lifting Well and Eq. Tank		ys Tue 01/09/20	Sun 04/10/20	1.	Sun 04/10/20		Sun 04/10/20	0 days				+#+					
			ys Tue 01/09/20	Thu 01/10/20		Thu 01/10/20		Thu 01/10/20	0 edays 120	1083		transferrance and the second	↓	h				
4 10545.30.2.1	CDS050-5 - Detailed Design for Lifting Appliances - Temp. Filtrate Eq. Sy		ys Mon 14/09/20	Sun 04/10/20		Sun 04/10/20				,1040,11057,1063,1060,1066			₩					
5 1055 5.30.2.2	Design submission for E&M Installation works for temp. filtrate eq. syst			Thu 18/03/21		Thu 18/03/21			0 days	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
	Manufacturing and Delivery of Plant & Materials		ys Mon 05/10/20										-					
7 1057 5.30.3.1	Filtrate Lift Pumps and Filtrate Transfer Pump, EQT011		ys Mon 05/10/20	Thu 18/03/21		Thu 18/03/21			0 days 1055									
8 1058 5.30.3.1.1	Manufacturing and Factory Acceptance Test of Plant		rys Mon 05/10/20	Mon 01/02/21	Mon 05/10/20		Mon 05/10/20	Mon 01/02/21	0 days 1052,									
9 1059 5.30.3.1.2	Shipping and Delivery of Plant to site (Delivered)		iys Tue 02/02/21	Thu 18/03/21		Thu 18/03/21		Thu 18/03/21	0 days 1058									
0 1060 5.30.3.2	Instrumentations		ys Mon 05/10/20	Thu 18/03/21		Thu 18/03/21			0 days 1055									
1 10615.30.3.2.1	Manufacturing and Factory Acceptance Test of Plant	120 da	ys Mon 05/10/20	Mon 01/02/21		Mon 01/02/21			0 days 1052									
2 1062 5.30.3.2.2	Shipping and Delivery of Plant to site	45 da	ys Tue 02/02/21	Thu 18/03/21		Thu 18/03/21			0 days 1061									
3 1063 5.30.3.3	Pipework	165 da	ys Mon 05/10/20	Thu 18/03/21	Mon 05/10/20	Thu 18/03/21	Mon 05/10/20	Thu 18/03/21	0 days 1055									
4 10645.30.3.3.1	Manufacturing and Factory Acceptance Test of Plant	120 da	ys Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/21	0 days 1052									
5 1065 5.30.3.3.2	Shipping and Delivery of Plant to site	45 da	ays Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	0 days 1064	1087								
6 1066 5.30.3.4	Valve	165 da	ys Mon 05/10/20	Thu 18/03/21	Mon 05/10/20	Thu 18/03/21	Mon 05/10/20	Thu 18/03/21	0 days 1055				Í					
7 1067 5.30.3.4.1	Manufacturing and Factory Acceptance Test of Plant	120 da	ays Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/21	Mon 05/10/20	Mon 01/02/21	0 days 1052	,1048 1058			-					
8 10685.30.3.4.2	Shipping and Delivery of Plant to site	45 da	ays Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	Tue 02/02/21	Thu 18/03/21	0 days 1067	1087				*				
	Site Installation Work	297 da	ays Sat 01/08/20	Tue 25/05/21	Sat 01/08/20	Tue 25/05/21	Sat 01/08/20	Tue 25/05/21	0 days						1			
0 1070 5.30.4.1	Commencement of Civil Construction and E&M Installation at Temp. I		ays Sat 01/08/20	Tue 25/05/21	Sat 01/08/20	Tue 25/05/21	Sat 01/08/20	Tue 25/05/21	0 days						+			
1 10715.30.4.1.1	Civil Construction Work		ays Sat 01/08/20	Tue 25/05/21	Sat 01/08/20	Tue 25/05/21	Sat 01/08/20	Tue 25/05/21	0 days						+			
2 1072 5.30.4.1.1.:	Civil on-site survey and report submission for acceptance		ays Sat 01/08/20	Thu 06/08/20	Sat 01/08/20	Thu 06/08/20		Thu 06/08/20	0 edays 1052	1073,1074			1					
3 1073 5.30.4.1.1.:	Civil structural design and drawing submission for acceptance		ays Fri 07/08/20	Sat 05/09/20	Fri 07/08/20	1		Sat 05/09/20	0 days 1072				*					
			ays Fri 07/08/20	Thu 27/08/20	Fri 07/08/20	Thu 27/08/20		Thu 27/08/20	0 days 1072									
1074 5.30.4.1.1.	Site Clearance, UU diversion and construction of U-channel				Sun 06/09/20			Wed 04/11/20		1,1073 1076		a da a se a característica de c	<u> </u>	. 11				
10755.30.4.1.1.	ELS (Sheeting and Excavation)		ays Sun 06/09/20	Wed 04/11/20										<u> </u>				
76 1076 5.30.4.1.1.!	Grouting Works		ays Thu 05/11/20	Sun 03/01/21		Sun 03/01/21		Sun 03/01/21	0 days 1075					<u>+</u>				
1077 5.30.4.1.1.0	RC structure works including cast-in items		ays Mon 04/01/21	Thu 04/03/21		Thu 04/03/21			0 days 1076		10			T				
78 10785.30.4.1.1.	Removal Formwork and Flasework		ays Fri 05/03/21	Frl 12/03/21	Fri 05/03/21		Fri 05/03/21	Fri 12/03/21	0 days 1077					E				
79 10795.30.4.1.1.	Waterproofing		ays Sat 13/03/21	Fri 26/03/21	Sat 13/03/21			Fri 26/03/21	0 days 1078			aleriantes la filadation de						
1080 5.30.4.1.1.	Other architectual works and finishing works	60 da	ays Sat 27/03/21	Tue 25/05/21	Sat 27/03/21	Tue 25/05/21	Sat 27/03/21	Tue 25/05/21	0 days 1079) 1097FF								
81 10815.30.4.1.2	E&M Installation Work	34 da	ays Sat 13/03/21	Thu 15/04/21	Sat 13/03/21	Thu 15/04/21	Sat 13/03/21	Sat 01/05/21	16 days					111-				
82 10825.30.4.1.2.	Installation of Lifting Appliances at Temporary Filtrate Lifting	10 di	ays Sat 13/03/21	Mon 22/03/21	Sat 13/03/21	Mon 22/03/21	Sat 13/03/21	Sat 01/05/21	40 days									
	Well and Eq. Tank										14 4:405			TLA	A x 4~6 men			
83 1083 5.30.4.1.2.:	GF MR LA-09-01 SWL 1t		ays Sat 13/03/21	Fri 19/03/21	Sat 13/03/21			Wed 28/04/21		7,1054,11085	LA - A x 4~6 men				Ax4~6 men			
84 1084 5.30.4.1.2.:	GF MR LA-09-02 SWL 1t		ays Sat 13/03/21	Fri 19/03/21		Fri 19/03/21		Wed 28/04/21			LA - A x 4~6 men				A x 4~6 men			
85 1085 5.30.4.1.2.:	Site Acceptance test and loading test of LA	3 d	ays Sat 20/03/21	Mon 22/03/21	Sat 20/03/21	Mon 22/03/21	Thu 29/04/21	Sat 01/05/21	40 days 1083	3,1084 1120FF	LA - A x 4~6 men		1					
86 1086 5.30.4.1.2.	Mechanical Installations for Temp. Filtrate Lifting Well and Eq. Ta	21 d	ays Fri 19/03/21	Thu 08/04/21	Fri 19/03/21	Thu 08/04/21	Fri 19/03/21	Thu 08/04/21	0 days 1077	7 1090FS-30 days				L.				
87 1087 5.30.4.1.2.:	Installation of pipework, chemical pipework and valves, EQT036	14 d	ays Fri 19/03/21	Thu 01/04/21	Fri 19/03/21	Thu 01/04/21	Fri 19/03/21	Thu 01/04/21	0 days 1078	3,1065,11088	ME - A x 4~6 men							
88 10885.30.4.1.2.:	Installation of pumps	7 d	ays Fri 02/04/21	Thu 08/04/21	Fri 02/04/21	Thu 08/04/21	Fri 02/04/21	Thu 08/04/21	0 days 108	7,1059 1092	ME - A x 4~6 men			ľ				
89 1089 5.30.4.1.2.:	Installation of instrumentations, EQT035-3	7 d	ays Fri 19/03/21	Thu 25/03/21	Fri 19/03/21	Thu 25/03/21	Fri 19/03/21	Thu 25/03/21	0 days 1078	3,1062 1092	ME - A x 4~6 men			1 Fil				
90 1090 5.30.4.1.2.	Electrical Installations for Temp. Filtrate Lifting Well and Eq. Tanl	34 d	ays Sat 13/03/21	Thu 15/04/21	Sat 13/03/21	Thu 15/04/21	Sat 13/03/21	Thu 15/04/21	0 days 1086	5FS-30 d				7				
91 10915.30.4.1.2.:	Installation of cable trays and cable containments	21 d	lays Sat 13/03/21	Fri 02/04/21	Sat 13/03/21	Fri 02/04/21	Sat 13/03/21	Fri 02/04/21	0 days 1078	3 1092	EE - A x 4~6 men			×.				
92 1092 5.30.4.1.2.:	Cables laying and terminations	7 d	lays Fri 09/04/21	Thu 15/04/21	Fri 09/04/21	Thu 15/04/21	Fri 09/04/21	Thu 15/04/21	0 days 109:	1,1088,11093	EE - A x 4~6 men							
1093 1093 5.30.4.1.3	Site Acceptance Test for E&M Equip at Filtrate Ufting Well and Eq. Ta	7 d	lays Fri 16/04/21	Thu 22/04/21	Fri 16/04/21	Thu 22/04/21	Fri 16/04/21	Mon 26/04/21	0 days 1093	2 1094				2	il l			
1094 5.30.4.1.4	System Commissioning for E&M Equip at Temp. Filtrate Lifting Well :		lays Fri 23/04/21	Thu 29/04/21	Fri 23/04/21	Thu 29/04/21	Fri 23/04/21	Sat 01/05/21	2 days 1093	3 1120FF				;	*			
	sisting PST No. 4 and No. 6, Portion B-3A (PS 6B.2.15)		lays Sat 01/08/20	Wed 01/09/21	Sat 01/08/20			Wed 01/09/21										
	Planned Key Date Completion Date - KD3B		lays Mon 07/06/21	Mon 07/06/21				Mon 07/06/21	- in the second s	BFF					€ -07/06			
	Planned Sectional Completion Date - Koss Planned Sectional Completion Date - Section 3, PST No. 4 and No. 6		lays Wed 01/09/21	Wed 01/09/21				Wed 01/09/21							€ 01/0	9		
			lays Sat 01/08/20	Tue 15/12/20		Tue 15/12/20			0 days	En		•						
	Selection of Suppliers for major plant and materials and Subcontractor for PST No. 4 and No. 6	15/0		106 13/ 14/ 20	541 04/06/20		000 001 001 20		o cays									
1099 5.31.3.1	Mis - Rotating Bridge Scrapers and associated materials, C11, ref. EQT037-1	42 0	days Sat 01/08/20	Fri 11/09/20	Sat 01/08/20	Fri 11/09/20	Sat 01/08/20	Frl 11/09/20	0 days									
	Submission for acceptance of purchasing package		days Sat 01/08/20	Fri 07/08/20	Sat 01/08/20	Fri 07/08/20	Sat 01/08/20	Fri 07/08/20	0 days	1101			-					
100 1100 5.31,3.1.1			days Sat 08/08/20	Fri 21/08/20	Sat 08/08/20	Fri 21/08/20	Sat 08/08/20	Fri 21/08/20	0 days 1100				1					
101 1101 5.31.3.1.2	Invitation of quotations for purchasing package					Fri 11/09/20	Sat 22/08/20	Fri 11/09/20	0 days 1100				-					
102 1102 5.31.3.1.3	Acceptance of conforming quotation (Completed)		days Sat 22/08/20	Fri 11/09/20	Sat 22/08/20													
103 1103 5.31.3.2	Mls - Plpework, C11, ref. EQT037-2		lays Sat 01/08/20	Fri 11/09/20	Sat 01/08/20		Sat 01/08/20	Fri 11/09/20	0 days	1107								
104 1104 5.31.3.2.1	Submission for acceptance of purchasing package		days Sat 01/08/20	Fri 07/08/20	Sat 01/08/20		Sat 01/08/20	Fri 07/08/20	0 days	1105			1					
105 1105 5.31.3.2.2	Invitation of quotations for purchasing package	14 c	days Sat 08/08/20	Fri 21/08/20	Sat 08/08/20	Fri 21/08/20	Sat 08/08/20	Fri 21/08/20	0 days 1104	4 1106								
Task Task			Late						Milestone (Actual) *									
	tone, Tentative 🖲 Summary Manual Su	immary I	Critical	Manager and Construction of Construction	riogress	9	ilack (Float) -		Slack									
oject DE/2018/04																		

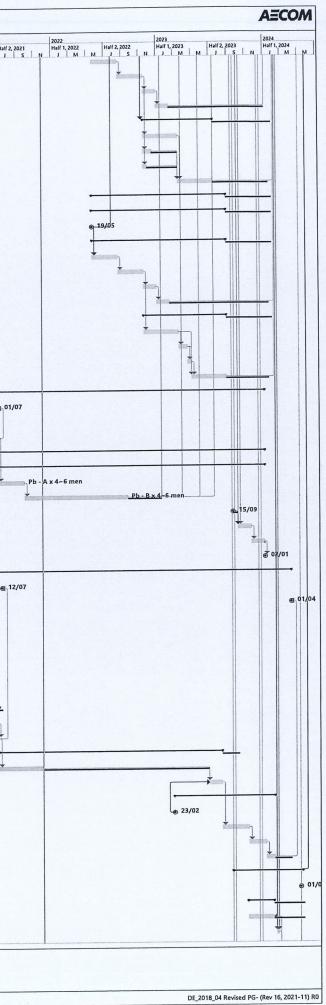
Drainage Services Dep	artment				Shek V	Wu Hui Effluent A	Polishing Plant - Mair	ork Programme for DE/2 n Works Stage 1 E&M V	Vorks for Sewage Treat	ment Facilities			No. Via			AE
ID WBS Task	Name	Duration between Task Start Start and Finish	Finish	Early Start		Late Start		Free Slack Predecesso		Resource Names	2020 Half 1, 2020 Half 2, 2020	2021 Half 1, 202	Half 2, 2021	2022 Half 1, 2022 Half	2023 2, 2022 Half 1, 2023	2024 Half 2, 2023 Half 1, M J S N J
1106 5.31.3.2.3	Acceptance of conforming quotation (Completed)	21 days Sat 22/08/20	Fri 11/09/20	Sat 22/08/20	Fri 11/09/20	Sat 22/08/20	Fri 11/09/20	0 days 1105	1112		N J M M J S					
11065.31.3.2.3	Acceptance of conforming duotation (Completed) Subletting of Electrical and Mechanical Installation Work w/ supply	81 days Sat 26/09/20	Tue 15/12/20		Tue 15/12/20		Tue 15/12/20	0 days								
107 3.31.3.3	of LCP															
11085.31.3.3.1	Submission for Subletting Package	30 days Sat 26/09/20	Sun 25/10/20	Sat 26/09/20	Sun 25/10/20	Sat 26/09/20	Sun 25/10/20	0 days 1112	1109		7	1				
1109 5.31.3.3.2	Invitation to tender	21 days Mon 26/10/20	Sun 15/11/20	Mon 26/10/20	Sun 15/11/20	Mon 26/10/20	Sun 15/11/20	0 days 1108	1110			≚				
11105.31.3.3.3	Acceptance of conforming tender (Completed)	30 days Mon 16/11/20	Tue 15/12/20	Mon 16/11/20	Tue 15/12/20	Mon 16/11/20	Tue 15/12/20	0 days 1109	1127							
11115.31.4	Design Submissions	14 days Sat 12/09/20	Fri 25/09/20	Sat 12/09/20	Fri 25/09/20	Sat 12/09/20	Fri 25/09/20	0 days			Ť					
11125.31.4.1	Design submissions for retrofitting the existing PST No. 4 and No. 6	14 days Sat 12/09/20	Fri 25/09/20	Sat 12/09/20	Fri 25/09/20	Sat 12/09/20	Fri 25/09/20	0 days 1102,110	5 1115,1118,1108		ž					
11135.31.5	Manufacturing and Delivery of Plant & Materials	195 days Sat 26/09/20	Thu 08/04/21	Sat 26/09/20	Thu 08/04/21	Sat 26/09/20	Thu 08/04/21	0 days					•			
11145.31.5.1	Rotating Bridge Scrapers and associated materials	195 days Sat 26/09/20	Thu 08/04/21	Sat 26/09/20	Thu 08/04/21	Sat 26/09/20	Thu 08/04/21	0 days								
1115 5.31.5.1.1	Manufacturing and Factory Acceptance Test of Plant	150 days Sat 26/09/20	Mon 22/02/21	Sat 26/09/20	Mon 22/02/21	Sat 26/09/20	Mon 22/02/21	0 days 1112	1116							
11165.31.5.1.2	Shipping and Delivery of Plant to site (Rev. 8)	45 days Tue 23/02/21	Thu 08/04/21	Tue 23/02/21	Thu 08/04/21	Tue 23/02/21	Thu 08/04/21	0 days 1115	1133							
11175.31.5.2	Pipework	120 days Sat 26/09/20	Sat 23/01/21	Sat 26/09/20	Sat 23/01/21	Sat 26/09/20	Sat 23/01/21	0 days								
8 11185.31.5.2.1	Manufacturing and Factory Acceptance Test of Plant	90 days Sat 26/09/20	Thu 24/12/20	Sat 26/09/20	Thu 24/12/20	Sat 26/09/20	Thu 24/12/20	0 days 1112	1119							
11195.31.5.2.2	Shipping and Delivery of Plant to site	30 days Fri 25/12/20	Sat 23/01/21	Fri 25/12/20	Sat 23/01/21	Fri 25/12/20	Sat 23/01/21	0 days 1118	1128			-				
11205.31.6	Tentative Civil Handover, Filtrate Lifting Well and Eq. Tank (Completion	1 day Sat 01/05/21	Sat 01/05/21	Sat 01/05/21	Sat 01/05/21	Sat 01/05/21	Sat 01/05/21	0 days 1094FF,10	08!				@ 01/05			
	of work)															
1121 5.31.7	Site Installation Work	300 days Thu 01/10/20	Tue 27/07/21		Tue 27/07/21			0 days								
1122 5.31.7.1	Commencement of retrofitting the existing PST No. 4 and No. 6	300 days Thu 01/10/20	Tue 27/07/21	Thu 01/10/20		Thu 01/10/20	Tue 27/07/21	0 days	1124							
1123 5.31.7.1.1	Temporary flow diversion of Filtrate from PST No. 4,	1 day Thu 01/10/20	Thu 01/10/20	Thu 01/10/20		Thu 01/10/20	Thu 01/10/20	O days	1124							
1124 5.31.7.1.2	Dismantle and Removal of E&M Equipment at PST No. 6	60 days Fri 02/10/20	Mon 30/11/20	Fri 02/10/20		have a way a surrow	Mon 30/11/20	0 days 1123	1125			T				
1125 5.31.7.1.3	Temporary flow diversion of Filtrate from PST No. 6	7 days Tue 01/12/20	Mon 07/12/20	Tue 01/12/20			Mon 07/12/20	0 days 1124	1126							
1126 5.31.7.1.4	Dismantle and Removal of E&M Equipment at PST No. 4	119 days Tue 08/12/20	Mon 05/04/21	Tue 08/12/20			Mon 05/04/21	0 days 1125	1128				<u></u>			
1127 5.31.7.1.5	Mechanical Installations of existing PSTs No. 4 (Completed)	56 days Tue 06/04/21	Mon 31/05/21	Tue 06/04/21			Thu 03/06/21	2.5 days 1110								
1128 5.31.7.1.5.1	Installation of PST influent feed pipe	5 days Tue 06/04/21	Sat 10/04/21	Tue 06/04/21		Tue 06/04/21	Sat 10/04/21	0 days 1126,1119		ME - A x 4~6 men ME - A x 4~6 men						
1129 5.31.7.1.5.2	Installation of circular baffle diffuser box	5 days Sun 11/04/21	Thu 15/04/21	Sun 11/04/21		Sun 11/04/21	Thu 15/04/21	0 days 1128	1130							
1130 5.31.7.1.5.3	Installation of scum baffle plates	5 days Fri 16/04/21	Tue 20/04/21	Fri 16/04/21		Fri 16/04/21	Tue 20/04/21	0 days 1129	1131	ME - A x 4~6 men ME - A x 4~6 men			2			
1131 5.31.7.1.5.4	Installation of scum box with collection valve and pipework	5 days Wed 21/04/21	Sun 25/04/21	Wed 21/04/21		Wed 21/04/21	Sun 25/04/21	0 days 1130	1132	ME - A x 4~6 men			-			
1132 5.31.7.1.5.5	Installation of v-notched weir plate	7 days Mon 26/04/21	Sun 02/05/21	Mon 26/04/21		Mon 26/04/21	Sun 02/05/21	0 days 1131		ME - A x 4~6 men			4			
1133 5.31.7.1.5.6	Installation of center bearing and slip ring assembly for rotating bridge	5 days Mon 03/05/21	Fri 07/05/21	Mon 03/05/21		Mon 03/05/21	Fri 07/05/21	0 days 1132,1116	1134	ME-Ax4°6 men			1			
1134 5.31.7.1.5.7	Installation of motor and gearbox assembly for rotating bridge	5 days Sat 08/05/21	Wed 12/05/21	Sat 08/05/21		Sat 08/05/21	Wed 12/05/21 Mon 17/05/21	0 days 1133 0 days 1134	1135	ME-Ax4°6 men			-			
5 1135 5.31.7.1.5.8	Installation of rotating bridge sludge and scum scraper assembly	5 days Thu 13/05/21	Mon 17/05/21	Thu 13/05/21		Thu 13/05/21 Tue 18/05/21	Mon 17/05/21 Thu 03/06/21	0 days 1134 0 days 1135	1136,1138	ME-Ax4~6 men			- A x 4-	6 men	_	
5 1136 5.31.7.1.5.9	installation of removable FRP covers for effluent channel	14 days Tue 18/05/21	Mon 31/05/21	Tue 18/05/21		Tue 18/05/21	Thu 27/05/21	0 days	1140							
7 1137 5.31.7.1.6	Electrical Installations of existing PST No. 4	10 days Tue 18/05/21	Thu 27/05/21	Tue 18/05/21		1		0 days 1135	1139	EE - A x 4~6 men			5			
8 1138 5.31.7.1.6.1	Installation of local control panels	5 days Tue 18/05/21	Sat 22/05/21	Tue 18/05/21 Sun 23/05/21		Tue 18/05/21 Sun 23/05/21	Sat 22/05/21 Thu 27/05/21	0 days 1133	1135	EE - A x 4~6 men			2			
9 1139 5.31.7.1.6.2	cable laying and terminations	5 days Sun 23/05/21	Thu 27/05/21 Sat 05/06/21	Tue 01/06/21		Tue 01/06/21	Mon 26/07/21	49 days 1137,1136					2			
1140 5.31.7.1.7	Site Acceptance Test for E&M Equip at existing PST No. 4	5 days Tue 01/06/21			21 Sun 30/05/21			0 days	1151							
1 11415.31.7.1.8	CNE-0229 - Removal of accumulated sludge inside PST No. 6	12 days Wed 19/05/21	Sun 30/05/21 Thu 20/05/21		21 Thu 20/05/21			0 days	1143							
2 11425.31.7.1.8.:	Filtrate divserion to Temporary Filtrate Equalisation Tank	2 days Wed 19/05/21 7 days Fri 21/05/21	Thu 27/05/21	Fri 21/05/21			Thu 27/05/21	0 days 1142,114								
3 1143 5.31.7.1.8.:	Removal of floating scum / sludge inside PST No. 6		Sun 30/05/21	Fri 28/05/21			Sun 30/05/21	0 days 1143					1			
4 11445.31.7.1.8.	Clearance of blockage of PST No. 6 drain pipe	3 days Fri 28/05/21 3 days Fri 28/05/21	Sun 30/05/21	Fri 28/05/21			Sun 30/05/21	0 days 1143					Ť			
1145 5.31.7.1.8.	Retrofiting Concrete Structure of PST No. 6	3 days Fri 28/05/21 8 days Mon 14/06/21	Mon 21/06/21		21 Mon 21/06/21			0 days		n and an			п			
46 11465.31.7.1.9	NCE-007 - Additional Contract Requirements for provision ICE's Certificates (RSE) on re-use of existing materials	0 Uays MON 14/06/21	1001 21/00/21													
7 1147 5.31.7.1.9.:	Provision of ICE's Certificate	8 days Mon 14/06/21	Mon 21/06/21	Mon 14/06/2	21 Mon 21/06/21	Mon 14/06/21	Mon 21/06/21	0 days	1143,1151				E-			
8 11485.31.7.1.10	NCE-008 - Additional Contract Requirements for provision ICE's	14 days Thu 24/06/21	Wed 07/07/21		1 Wed 07/07/21	Thu 24/06/21	Wed 07/07/21	0 days					п			
and side in the	Certificates on product design of E&M plant and materials.															
11495.31.7.1.10	Provision of ICE's Certificate	14 days Thu 24/06/21	Wed 07/07/21	Thu 24/06/23	1 Wed 07/07/21	Thu 24/06/21	Wed 07/07/21	0 days	1151				5			
11505.31.7.1.11	Mechanical Installations of existing PST No. 6	48 days Fri 04/06/21	Wed 21/07/21	Fri 04/06/21	Wed 21/07/21	Fri 04/06/21	Wed 21/07/21	0 days								
11515.31.7.1.11	Installation of PST influent feed pipe	2 days Thu 08/07/21	Fri 09/07/21	Thu 08/07/2	1 Fri 09/07/21	Thu 08/07/21	Fri 09/07/21	0 days 1141,114	17,11152	ME - A x 4~6 men			IJ			
1152 5.31.7.1.11	Installation of center bearing and slip ring assembly for rotating	br 2 days Sat 10/07/21	Sun 11/07/21	Sat 10/07/21	L Sun 11/07/21	Sat 10/07/21	Sun 11/07/21	0 days 1151	1153,1156	ME - A x 4~6 men			1			
3 1153 5.31.7.1.11	Installation of motor and gearbox assembly for rotating bridge	5 days Mon 12/07/21	Fri 16/07/21	Mon 12/07/2	21 Fri 16/07/21	Mon 12/07/21	1 Fri 16/07/21	0 days 1152	1160,1154,1155	ME - A x 4~6 men			11			
11545.31.7.1.11	Installation of rotating bridge sludge and scum scraper assemb	y 5 days Sat 17/07/21	Wed 21/07/21	Sat 17/07/21	Wed 21/07/21	Sat 17/07/21	Wed 21/07/21	0 days 1153		ME - A x 4~6 men			1			
1155 5.31.7.1.11	Installation of circular baffle diffuser box	2 days Sat 17/07/21	Sun 18/07/21	Sat 17/07/21	L Sun 18/07/21	Sat 17/07/21	Sun 18/07/21	0 days 1153		ME - A x 4~6 men						
1156 5.31.7.1.11	Installation of v-notched weir plate	2 days Fri 04/06/21	Sat 05/06/21	Fri 04/06/21	Sat 05/06/21	Fri 04/06/21	Sat 05/06/21	0 days 1152	1157,1158	ME - A x 4~6 men	na del care e		*			
1157 5.31.7.1.11	Installation of scum baffle plates	2 days Sun 06/06/21	Mon 07/06/21	Sun 06/06/2	1 Mon 07/06/21	Sun 06/06/21	Mon 07/06/21	0 days 1156		ME - A x 4~6 men			1			
11585.31.7.1.11	Installation of scum collection box	2 days Sun 06/06/21	Mon 07/06/21	Sun 06/06/2	1 Mon 07/06/21	Sun 06/06/21	Mon 07/06/21	0 days 1156		ME - A x 4~6 men						
9 1159 5.31.7.1.12	Electrical Installations of existing PSTs No. 6	6 days Sat 17/07/21	Thu 22/07/21	Sat 17/07/2:	1 Thu 22/07/21	Sat 17/07/21	Thu 22/07/21	0 days	1162							
50 1160 5.31.7.1.12	Installation of local control panels	3 days Sat 17/07/21	Mon 19/07/21	Sat 17/07/21	1 Mon 19/07/21	Sat 17/07/21	Mon 19/07/21	0 days 1153	1161				1			
61 1161 5.31.7.1.12	cable laying and terminations	3 days Tue 20/07/21	Thu 22/07/21	Tue 20/07/2	1 Thu 22/07/21	Tue 20/07/21	Thu 22/07/21	0 days 1160	1162				1			
	ask Milestone 🔶 Projec	: Summary 1 Late	Accession of the Destance	Critical Split	M	fanual Progress	Mi	ilestone (Actual) 🛨								
Bestwise		I Summary 1 Critical				lack (Float)	Sla									
ect: DE/2018/04 :: 30/11/21																
																E_2018_04 Revised PG- (Rev

A		Jepartment							in Works Stage 1 E&M W			1	1	
ID	WBS T	ask Name	Duration between Task Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predecessor	Successors	Resource Names	2020 Half 1, 2020 N J M M	202 alf 2, 2020 Hall J S N J	If 1, 202
11	625.31.7.1.13	Site Acceptance Test for E&M Equip at existing PST No. 6	2 days Fri 23/07,	21 Sat 24/07/21	Fri 23/07/21	Sat 24/07/21	Sat 24/07/21	Mon 26/07/21	0 days 1159,1161	1163			1 5 1 11 1	T
	163 5.31.7.1.14	System Commissioning for E&M Equip at existing PST No. 4 and No. 6	3 days Sun 25/07,		Sun 25/07/21	Tue 27/07/21	Sun 25/07/21	Tue 27/07/21	0 days 1140,1162	1096FF				
	164 5.32	Existing Main Power House Electrical, Portion B-7A and B-7B (PS 6B.3.17)	42 days Thu 11/0	5/20 Wed 22/07/20	Thu 11/06/20	Wed 22/07/20	Thu 11/06/20	Wed 22/07/20	0 days				•	
_	165 5.32.1	Planned Key Date Completion Date - KD3A	0 days Wed 22/0			Wed 22/07/20	Wed 22/07/20	Wed 22/07/20	0 days			6	€ 22/07	
-	166 5.32.2	Design Submissions for Existing Emergency Generator House	15 days Fri 12/06		Fri 12/06/20	Fri 26/06/20	Fri 12/06/20	Fri 26/06/20	0 days			+		
_		Design submissions for E&M installation works of existing power house	15 days Fri 12/06,		Fri 12/06/20	Fri 26/06/20	Fri 12/06/20	Fri 26/06/20	0 days 188	1171		1 ±		
	167 5.32.2.1		39 days Thu 11/0			Sun 19/07/20		Sun 19/07/20	0 days					
	168 5.32.3	Site Installation Work			Thu 11/06/20	Thu 11/06/20	Thu 11/06/20	Thu 11/06/20	0 days			@ 11	1/06	
	169 5.32.3.1	Tentative Civil Handover Date, Portion B-7A & 7B area for modification of exist			Sat 27/06/20		Sat 27/06/20	Sun 19/07/20	0 days			-	•	
70 11	170 5.32.3.2	Commencement of Modification of existing emergency generator Electrical Works	23 days Sat 27/06,	301 19/07/20	541 27700720	5011 25/01/20	54(2)/00/20	5411 25/01/20						
71 1	171 5.32.3.2.1	Site survey and preparation work	1 day Sat 27/06,	20 Sat 27/06/20	Sat 27/06/20	Sat 27/06/20	Sat 27/06/20	Sat 27/06/20	0 days 1167	1172		1 1		
	172 5.32.3.2.2	Modification of existing emergency generator electrical works	3 days Sun 28/06	/20 Tue 30/06/20	Sun 28/06/20	Tue 30/06/20	Sun 28/06/20	Tue 30/06/20	0 days 1171	1173		1		
	173 5.32.3.2.3	Test the new switchboard for on-site mobile generator	2 days Wed 01/0	7/20 Thu 02/07/20	Wed 01/07/20	Thu 02/07/20	Wed 01/07/20	Thu 02/07/20	0 days 1172	1174		1		
	174 5.32.3.2.4	Dismantling and removal the existing power & control cables	14 days Fri 03/07/		Fri 03/07/20	Thu 16/07/20	Fri 03/07/20	Thu 16/07/20	0 days 1173	1175			5	
		Take down existing generator to DSD (Completed)	3 days Fri 17/07/		Frl 17/07/20	Sun 19/07/20	Fri 17/07/20	Sun 19/07/20	0 days 1174			- 1	÷	
_	175 5.32.3.2.5						Wed 01/07/20	Wed 01/09/21	3 days			-		+
	1765.33	Existing Sludge Press House, Portion B-10 (PS 68.2.11)	425 days Wed 01/				Mon 07/06/21		0 days			-		
	1775.33.1	Planned Key Date Completion Date - KD3B	0 days Mon 07/									-		
78 1.	178 5.33.2	Selection of Suppliers for major plant and materials for Filter Presses	52 days Wed 01/		and the state of the	0 Fri 21/08/20	Wed 01/07/20		0 days			-		
79 1	179 5.33.2.1	Mis - new replacement filter plates and provision of filter cloths, C11, ref. EQT038	52 days Wed 01/0	7/20 Fri 21/08/20	Wed 01/07/20	Fri 21/08/20	Wed 01/07/20	Fri 21/08/20	0 days					
100	1005 22 2 4 4	Submission for acceptance of purchasing package	21 days Wed 01/0	7/20 Tue 21/07/20	Wed 01/07/20	Tue 21/07/20	Wed 01/07/20	Tue 21/07/20	O days	1181		-		
	180 5.33.2.1.1		10 days Wed 22/0		Wed 22/07/20		Wed 22/07/20	Fri 31/07/20	0 days 1180	1182		-	*	
	1815.33.2.1.2	Invitation of quotations for purchasing package				Fri 21/08/20	Sat 01/08/20	Fri 21/08/20	0 days 1181	1183		-	×,	
	1182 5.33.2.1.3	Acceptance of conforming quotation (Completed)	21 days Sat 01/08		Sat 01/08/20					1185		-	÷.	
83 1	183 5.33.3	Design submission for replacement of filter plates	7 edays Fri 21/08		Fri 21/08/20		Fri 21/08/20	Fri 28/08/20	0 edays 1182	1105				
84 1	184 5.33.4	Manufacturing and Delivery of Plant & Materials	345 days Sat 29/0	8/20 Sun 08/08/21	Sat 29/08/20		Sat 29/08/20	Sun 08/08/21	0 days				<u> </u>	
185 1	1185 5.33.4.1	Manufacturing and Factory Acceptance Test of Plant	300 days Sat 29/08	/20 Thu 24/06/21	Sat 29/08/20	Thu 24/06/21	Sat 29/08/20	Thu 24/06/21	0 days 1183	1186				T
86 1	1186 5.33.4.2	Shipping and Delivery of Plant to site	45 days Fri 25/06	/21 Sun 08/08/21	Fri 25/06/21	Sun 08/08/21	Fri 25/06/21	Sun 08/08/21	0 days 1185	1189				
87 1	1875.33.5	Site Installation Work	21 days Mon 09,	08/21 Sun 29/08/21	Mon 09/08/2	1 Sun 29/08/21	Thu 12/08/21	Wed 01/09/21	3 days					
188 1	188 5.33.5.1	Commencement of replacement of filter plates	21 days Mon 09,	/08/21 Sun 29/08/21	Mon 09/08/2	1 Sun 29/08/21	Thu 12/08/21	Wed 01/09/21	3 days					
	189 5.33.5.1.1	Replacement of filter plates (On Hold)	21 days Mon 09,	/08/21 Sun 29/08/21	Mon 09/08/2	1 Sun 29/08/21	Thu 12/08/21	Wed 01/09/21	3 days 1186	1097FF				
	1905.34	Fire Services Installation (PS 6B.6.9)	1248 days Tue 01/	12/20 Wed 01/05/24	Tue 01/12/20	Wed 01/05/2	4 Tue 01/12/20	Wed 01/05/24	0 days					+
	(1905.34.1	Planned Key Date Completion Date - KD18, Fire	0 days Tue 01/			Tue 01/06/21	Tue 01/06/21	Tue 01/06/21	0 days 1195FF					
	11925.34.2	Planned Sectional Completion Date - Section 1, FSI	0 days Mon 12,				1 Mon 12/07/21	Mon 12/07/21	0 days 1196FF			-		
		Planned Sectional Completion Date - Section 1, FSI Planned Sectional Completion Date - Section 4, FSI	0 days Wed 01				4 Wed 01/05/24		0 days 1211FF			-		
	1193 5.34.3		334 days Tue 01/				Tue 01/12/20		0 days					+
	1194 5.34.4	Design Submissions for FSI					Tue 01/12/20		0 days	1191FF		-		_
	1195 5.34.4.1	CDS081-11 - Civil and dimensional requirements drawings for Fire Serv				1 Sat 30/10/21			0 edays 163	1200,1197,1192FF				
196]	1196 5.34.4.2	CDS049 - Detailed Design for Fire Services include AFA, FS, FH, Sprinkle	1							1206FF		-		
197]	1197 5.34.5	DG Stores Submissions to FSD for approval	120 days Sun 31/				Mon 02/10/23		690 days 1196	120077				
198 1	1198 5.34.6	Site Installation Work	910 days Sun 31/			1 Sat 27/04/24		Wed 01/05/24	4 days					
199	1199 5.34.6.1	Commencement of Fire Services Installation	910 days Sun 31/1	0/21 Sat 27/04/24	Sun 31/10/21			Wed 01/05/24	4 days					
200	1200 5.34.6.1.1	Design Review of Approved General Building Plan	126 days Sun 31/1	0/21 Sat 05/03/22	Sun 31/10/21		Sat 10/09/22	Fri 13/01/23	0 days 1196	1201				
201	1201 5.34.6.1.2	Submission of WWO542 for WSD's approval	270 days Sun 06/0	3/22 Wed 30/11/22	Sun 06/03/22	Wed 30/11/22	Sat 14/01/23	Tue 10/10/23	310 days 1200	1202				
1202	1202 5.34.6.1.3	Submission of WWO46 for WSD's Inspection	30 days Sat 07/1	0/23 Sun 05/11/23	Sat 07/10/23	Sun 05/11/23	Wed 11/10/23	Thu 09/11/23	0 days 1201,363,4	92 1203				
	1203 5.34.6.1.4	Obtain WWO46 Part V	60 days Mon 06/	11/23 Thu 04/01/24	Mon 06/11/23	Thu 04/01/24	Fri 10/11/23	Mon 08/01/24	0 days 1202	1206,1204				
	1204 5.34.6.1.5	FSD Inspection and Approval for MVAC	21 days Fri 05/0	1/24 Thu 25/01/24	Fri 05/01/24	Thu 25/01/24	Tue 09/01/24	Mon 29/01/24	0 days 1214,1215	121207				
	1205 5.34.6.1.6	FSD Inspection and Approval for DG Stores	21 days Wed 06/		Wed 06/12/23	Tue 26/12/23	Tue 09/01/24	Mon 29/01/24	30 days 1214,1215	821207	an a			
	1205 5.34.6.1.7	Submission of (FSI/314 & FSI/501) to FSD	14 days Fri 05/0		Fri 05/01/24	Thu 18/01/24		Mon 29/01/24	7 days 1214,1215	121207				
			5 days Fri 26/0		Fri 26/01/24	Tue 30/01/24		Sat 03/02/24	0 days 1206,1204					
	1207 5.34.6.1.8	Pre-inspection meeting with FSD			Wed 31/01/24			Sun 18/02/24	0 days 1207	1209				
	1208 5.34.6.1.9	Initial Inspection with FSD	15 days Wed 31,					Wed 03/04/24	0 days 1207	1205		-		
1209	1209 5.34.6.1.10		45 days Thu 15/		Thu 15/02/24		Mon 19/02/24			1210		-		
1210	1210 5.34.6.1.11	Re-inspections with FSD	14 days Sun 31/		Sun 31/03/24		Thu 04/04/24	Wed 17/04/24	0 days 1209			-		
1211	1211 5.34.6.1.12	Issue of acceptance memo by FSD	14 days Sun 14/		Sun 14/04/24		Thu 18/04/24	Wed 01/05/24	4 days 1210	1193FF				
1212	1212 5.34.6.1.13	Installation of FS Pumps and Sprinkler Pumps	60 days Mon 03	/04/23 Thu 01/06/23	Mon 03/04/2			Thu 09/11/23	127 days	1215	FS - A x 4~6 men			
1213	1213 5.34.6.1.14	Installation of Fire Hydrant and Booster Pumps	60 days Mon 03,	/04/23 Thu 01/06/23	Mon 03/04/2	3 Thu 01/06/23	Mon 11/09/23	Thu 09/11/23	127 days	1215	FS - A x 4~6 men			
1214	1214 5.34.6.1.15	SAT for Manual and automatic fire detection and alarm system	60 days Sat 07/1	0/23 Tue 05/12/23	Sat 07/10/23	Tue 05/12/23	Fri 10/11/23	Mon 08/01/24	0 days 363,492,6	3, 1206, 1204, 1205				
1215	1215 5.34.6.1.16	SAT for Fire hydrants, hose reels and street fire hydrant system	60 days Sat 07/1	0/23 Tue 05/12/23	Sat 07/10/23	Tue 05/12/23	Fri 10/11/23	Mon 08/01/24	0 days 1212,1213	,361206,1204,1205				
	1216 5.35	Fire Services Sprinkler Pumping Room, Portion B-7 & B-7B (PS 6B.6.9)	421 days Thu 19	/05/22 Thu 13/07/2	3 Thu 19/05/2	2 Thu 13/07/2	3 Mon 05/12/22	2 Mon 29/01/24	200 days					
	1217 5.35.1	Site Installation Work	421 days Thu 19			2 Thu 13/07/2	3 Mon 05/12/22	2 Mon 29/01/24	200 days					
	1218 5.35.1.1	Tentative Civil Handover Date, FS Sprinkler Pump Room (Rev. 5)	1 day Thu 19				2 Mon 05/12/22	Mon 05/12/22	0 days	1219,1224				
1210		Commencement of E&M Installation at FS & Sprinkler Pump Room	420 days Thu 19					Mon 29/01/24	and and include the information of an and the second		and a second			
	1219 5.35.1.2	Commencement or Earn Installation at F5 & Sprinkler Pump Room	-10 uays 110 19	/~~ (110 13/0//2					1					
1219	I		Summary 1 Late	No. of Concession, Name					dilestone (Actual) *					

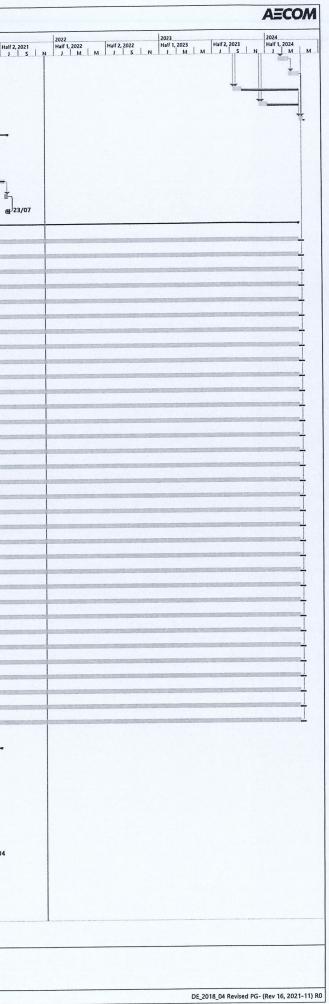
Page 21 of 24



D Description Des	D D		Department	Burlant to a to be	-	Christe	Endy Start		Wu Hui Effluent P	lishing Plant - Ma			s for Sewage Treatmen	Resource Names	0000
	B B	ID WBS	Fask Name		art	rinisn	cany start	carly Finish		Late I Mish	PICC STACK PI	Caccessons 50			
Normal Name	Part And Proceedings of the Analysis of Analysis An	1220 5.35.1.2.1	Mechanical Installations for FS & Sprinkler Pumps	90 edays Th	nu 19/05/22	Wed 17/08/22	Thu 19/05/22	Wed 17/08/22	Tue 06/12/22	Mon 06/03/23	0 edays	13	221	FS - A x 4~6 men	
No. No. <td>Normannet Normannet <t< td=""><td>1221 5.35.1.2.2</td><td>Electrical Installations for FS & Sprinkler Pumps</td><td>90 edays W</td><td>ed 17/08/22</td><td>Tue 15/11/22</td><td>Wed 17/08/22</td><td>Tue 15/11/22</td><td>Mon 06/03/23</td><td>Sun 04/06/23</td><td>0.63 edays 12</td><td>220 12</td><td>222,1225,1226,1227</td><td>FS - A x 4~6 men</td><td></td></t<></td>	Normannet Normannet <t< td=""><td>1221 5.35.1.2.2</td><td>Electrical Installations for FS & Sprinkler Pumps</td><td>90 edays W</td><td>ed 17/08/22</td><td>Tue 15/11/22</td><td>Wed 17/08/22</td><td>Tue 15/11/22</td><td>Mon 06/03/23</td><td>Sun 04/06/23</td><td>0.63 edays 12</td><td>220 12</td><td>222,1225,1226,1227</td><td>FS - A x 4~6 men</td><td></td></t<>	1221 5.35.1.2.2	Electrical Installations for FS & Sprinkler Pumps	90 edays W	ed 17/08/22	Tue 15/11/22	Wed 17/08/22	Tue 15/11/22	Mon 06/03/23	Sun 04/06/23	0.63 edays 12	220 12	222,1225,1226,1227	FS - A x 4~6 men	
Normal Sector Normal S	No. No. <td>1222 5.35.1.2.3</td> <td>Site Acceptance Test for FS & Sprinkler Pumps</td> <td>45 days W</td> <td>ed 16/11/22</td> <td>Fri 30/12/22</td> <td>Wed 16/11/22</td> <td>Fri 30/12/22</td> <td>Wed 18/10/23</td> <td>Fri 01/12/23</td> <td>0 days 12</td> <td>221 13</td> <td>223</td> <td></td> <td></td>	1222 5.35.1.2.3	Site Acceptance Test for FS & Sprinkler Pumps	45 days W	ed 16/11/22	Fri 30/12/22	Wed 16/11/22	Fri 30/12/22	Wed 18/10/23	Fri 01/12/23	0 days 12	221 13	223		
Normal Name <	No Normal Mathematical Mathematimatical Matematical Mathematimatrematical Mathematical Mathemat	1223 5.35.1.2.4	System Commissioning for FS & Sprinkler Pumps	45 days Sa	at 31/12/22	Mon 13/02/23	Sat 31/12/22	Mon 13/02/23	Sat 02/12/23	Mon 15/01/24	325 days 12	222 13	206		
Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman Norman	Nome Nome Nome Nome Nome Nome Nome Nome Nome No No <td>1224 5.35.1.2.5</td> <td>Building Services Installations at FS & Sprinkler Pump Room</td> <td>240 days W</td> <td>/ed 16/11/22</td> <td>Thu 13/07/23</td> <td>Wed 16/11/22</td> <td>Thu 13/07/23</td> <td>Sun 04/06/23</td> <td>Mon 29/01/24</td> <td>200 days 13</td> <td>218</td> <td></td> <td></td> <td></td>	1224 5.35.1.2.5	Building Services Installations at FS & Sprinkler Pump Room	240 days W	/ed 16/11/22	Thu 13/07/23	Wed 16/11/22	Thu 13/07/23	Sun 04/06/23	Mon 29/01/24	200 days 13	218			
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	N N			120 days W	/ed 16/11/22	Wed 15/03/23	Wed 16/11/22	Wed 15/03/23	Sun 04/06/23	Sun 01/10/23	0 days 12	221 1	228	BS - A x 4~6 men	
D D	Normal Name					Thu 15/12/22	Wed 16/11/22	Thu 15/12/22	Sat 02/09/23	Sun 01/10/23	90 days 12	221 1	228	BS - A x 4~6 men	
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Processor Processor Processor Processor <t< td=""><td>Control Control Contro <thcontrol< th=""> <thcontrol< th=""> <thc< td=""><td>1234 5.36.1.2.2</td><td>Electrical Installations for Street FH Pump</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>13-AAF UIIICI</td><td>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</td></thc<></thcontrol<></thcontrol<></td></t<>	Control Contro <thcontrol< th=""> <thcontrol< th=""> <thc< td=""><td>1234 5.36.1.2.2</td><td>Electrical Installations for Street FH Pump</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>13-AAF UIIICI</td><td>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</td></thc<></thcontrol<></thcontrol<>	1234 5.36.1.2.2	Electrical Installations for Street FH Pump								1			13-AAF UIIICI	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
m m	m m	1235 5.36.1.2.3	Site Acceptance Test for Street FH Pump	45 days V	Ved 16/11/22										
main m main main<	Normal Symposition <	5 1236 5.36.1.2.4	System Commissioning for Street FH Pumps	45 days S	at 31/12/22	Mon 13/02/23					Lenge	235 1	206FF		
Bit	Jaka James Ja	1237 5.36.1.2.5	Building Services Installations at Street FH Pump Room	284 days V	Ved 16/11/22	Sat 26/08/23				Mon 29/01/24	156 days				
Displace	Displace Lamin Junitary Journey Journe	3 12385.36.1.2.5.	Lighting and Power Distribution System, Street FH PR	120 days V	Ved 16/11/22	Wed 15/03/23	Wed 16/11/22	Wed 15/03/23	Fri 21/04/23	Fri 18/08/23	0 days 1	.234 1	241,1239		
image: image:<	minipulation model management	1239 5.36.1.2.5.	Lightning Protection System, Street FH PR	30 days T	hu 16/03/23	Fri 14/04/23	Thu 16/03/23	Fri 14/04/23	Sat 19/08/23	Sun 17/09/23	0 days 1	238 1	240,1241	BS - A x 4~6 men	
mm mm< mm	and and <td>1240 5.36.1.2.5.</td> <td>Mechanical Ventilation System, Street FH PR</td> <td>14 days S</td> <td>at 15/04/23</td> <td>Fri 28/04/23</td> <td>Sat 15/04/23</td> <td>Fri 28/04/23</td> <td>Mon 18/09/23</td> <td>Sun 01/10/23</td> <td>0 days 1</td> <td>.239 1</td> <td>241</td> <td>MVAC - A x 4~6 men</td> <td></td>	1240 5.36.1.2.5.	Mechanical Ventilation System, Street FH PR	14 days S	at 15/04/23	Fri 28/04/23	Sat 15/04/23	Fri 28/04/23	Mon 18/09/23	Sun 01/10/23	0 days 1	.239 1	241	MVAC - A x 4~6 men	
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Main	Main	2 1252 5.37.3.1.5	Obtain WWO46 Part V	45 days	Thu 16/11/23								1233		
Main Main Manufacturing and Main Marked Main Main Jayn	Mark Marked section Marked section <td>3 1253 5.37.3.1.6</td> <td>Tentative Date for connection of external water plpework (by others)</td> <td>0 days</td> <td>Tue 02/01/24</td> <td>Tue 02/01/24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1252</td> <td></td> <td></td> <td></td>	3 1253 5.37.3.1.6	Tentative Date for connection of external water plpework (by others)	0 days	Tue 02/01/24	Tue 02/01/24						1252			
No. No. <td>No. No. No.<td>4 12545.38</td><td>Photovoltaic Power System (PS 6B.6.11)</td><td>1128 days</td><td>Mon 01/03/21</td><td>Mon 01/04/24</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	No. No. <td>4 12545.38</td> <td>Photovoltaic Power System (PS 6B.6.11)</td> <td>1128 days</td> <td>Mon 01/03/21</td> <td>Mon 01/04/24</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	4 12545.38	Photovoltaic Power System (PS 6B.6.11)	1128 days	Mon 01/03/21	Mon 01/04/24		1							
Mark Mark <th< td=""><td>Main Main <th< td=""><td>1255 5.38.1</td><td>Planned Sectional Completion Date - Section 1, BR 2A & 2B</td><td>0 days</td><td>Mon 12/07/21</td><td>Mon 12/07/21</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>er annen Aldrei</td></th<></td></th<>	Main Main <th< td=""><td>1255 5.38.1</td><td>Planned Sectional Completion Date - Section 1, BR 2A & 2B</td><td>0 days</td><td>Mon 12/07/21</td><td>Mon 12/07/21</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>er annen Aldrei</td></th<>	1255 5.38.1	Planned Sectional Completion Date - Section 1, BR 2A & 2B	0 days	Mon 12/07/21	Mon 12/07/21									er annen Aldrei
Main Main <th< td=""><td>223$223$$233$$233$$2333$$23333$$233333$$233333$$233333$$233333$$233333$$23333333$$2333333333333333333333333333333333333$</td><td>6 1256 5.38.2</td><td>Planned Sectional Completion Date - Section 2, BR 2A & 2B</td><td>0 days</td><td>Mon 01/04/24</td><td>Mon 01/04/24</td><td></td><td></td><td></td><td></td><td></td><td>1273FF</td><td></td><td></td><td></td></th<>	223 223 233 233 2333 23333 233333 233333 233333 233333 233333 23333333 $2333333333333333333333333333333333333$	6 1256 5.38.2	Planned Sectional Completion Date - Section 2, BR 2A & 2B	0 days	Mon 01/04/24	Mon 01/04/24						1273FF			
Mathematican Mathematican<	Mathema Mathama Mathama Mathama Mathema Mathema Mathema Mathema Mathema Mathema	1257 5.38.3	Selection of Suppliers for major plant and materials for BR 2A & 2B	73 days	Mon 01/03/21	Wed 12/05/21	Mon 01/03/21	Wed 12/05/21	Mon 01/03/21	Wed 12/05/21	0 days				Land History of
103 103 103 104 <td>Markamenta According and Markamenta According According According According According According an</td> <td>1258 5.38.3.1</td> <td>PV System (EQT041)</td> <td>73 days</td> <td>Mon 01/03/21</td> <td>Wed 12/05/21</td> <td>Mon 01/03/21</td> <td>1 Wed 12/05/2</td> <td>1 Mon 01/03/21</td> <td>Wed 12/05/21</td> <td>0 days</td> <td></td> <td></td> <td></td> <td></td>	Markamenta According and Markamenta According According According According According According an	1258 5.38.3.1	PV System (EQT041)	73 days	Mon 01/03/21	Wed 12/05/21	Mon 01/03/21	1 Wed 12/05/2	1 Mon 01/03/21	Wed 12/05/21	0 days				
Normality Name of a large of any matching particular partener particular particul	Main and a local mathematication performing periforming performing performing performing performin	59 1259 5.38.3.1.1	Submission for acceptance of purchasing package	30 days	Mon 01/03/21	Tue 30/03/21	Mon 01/03/21	Tue 30/03/21	Mon 01/03/21	Tue 30/03/21	0 days	,	1260		
Internal and	Main Mathematic Mathemati Mathamatic Mathemati Mathamatic Mathematic Mathematic M	50 1260 5.38.3.1.2	Invitation of quotations for purchasing package	21 days	Wed 31/03/21	Tue 20/04/21	Wed 31/03/21	Tue 20/04/21	Wed 31/03/21	Tue 20/04/21	0 days 1	1259 1	1261		
182 263.8.1.4 Commendendelphy MA Commendelphy MA <thcommendelphy ma<="" th=""> <thcommendelphy ma<="" th=""></thcommendelphy></thcommendelphy>	Image Image <th< td=""><td>51 1261 5.38.3.1.3</td><td>Acceptance of conforming quotation</td><td>21 days</td><td>Wed 21/04/21</td><td>Tue 11/05/21</td><td>Wed 21/04/21</td><td>Tue 11/05/21</td><td>Wed 21/04/21</td><td>Tue 11/05/21</td><td>0 days 1</td><td>1260 1</td><td>1262</td><td></td><td></td></th<>	51 1261 5.38.3.1.3	Acceptance of conforming quotation	21 days	Wed 21/04/21	Tue 11/05/21	Wed 21/04/21	Tue 11/05/21	Wed 21/04/21	Tue 11/05/21	0 days 1	1260 1	1262		
And mark And space (and mark (No. No. <td></td> <td>Commencement of Design Work</td> <td>1 day</td> <td>Wed 12/05/21</td> <td>Wed 12/05/21</td> <td>Wed 12/05/21</td> <td>Wed 12/05/21</td> <td>Wed 12/05/21</td> <td>Wed 12/05/21</td> <td>0 days 1</td> <td>1261 1</td> <td>1264</td> <td></td> <td></td>		Commencement of Design Work	1 day	Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	Wed 12/05/21	0 days 1	1261 1	1264		
No.	No.			49 days	Wed 12/05/21	Wed 30/06/21	Wed 12/05/2:	1 Wed 30/06/2	1 Wed 12/05/21	Mon 12/07/21	12 days				
Name	Name Name <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.63 edays 1</td><td>1262 1</td><td>1265</td><td></td><td></td></th<>										0.63 edays 1	1262 1	1265		
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1267 1267	1267 1267											1265 1	1268		
1210 1210 1210 1210 1210 1210 1210 1210 1210 1210 1205 3.8.6.1 Skle Installation Work 345 days Thu 23/02/23 Fi 102/02/44 Thu 23/02/23 Fi 102/02/24 Thu 23/02/23 Thu 23/02/24 Thu 23/02/24 Thu 03/01/24 Tu 02/01/24 O days 1268 1272 Plant Commencement of Site Installation Work 0 Plant Commencement of Site Installation Work Plant Commencement of Site Installation Homencement Homencement of Site Installation Homencement	1210 1210					and the second second second second									al (1997) - 1999 - 1
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12701270 3.8.6.1Intentive Cvin nanover bate, vintion Bs, bit/R 2 bit (no. 1)1 cut (no. 1)	12701270 3.86.111 fentative Cvin natiover Date, roticin ha, six Xx 2 (ne. 3)1 contract of the nater of the natiov	69 1269 5.38.6											1269551120		
1271 3.275 3.88.2 Commencement of site installation work 60 days Sun 05/10/23 Wed 03/01/24 Wed 03/01/24 Wed 03/01/24 Wed 03/01/24 0 days 1271 1273 PV - A x 4~6 men 1272 3.88.6.4 CLP's smart meter installation and Final on-grid test with CLP 30 days Thu 04/01/24 Fri 02/02/24 Thu 04/01/24 Fri 02/02/24 Nu 03/03/24 Med 03/01/24 Sat 02/03/24 0 days 1271 1273 PV - A x 4~6 men 1273 1273 S.38.6.4 CLP's smart meter installation and Final on-grid test with CLP 30 days Thu 04/01/24 Fri 02/02/24 Thu 04/01/24 Fri 02/02/24 Nu 03/03/24 Mon 01/04/24 59 days 1272 1256FF 1265FF 1274 1274 Plant Commissioning 0 days Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 Mon 13/05/24 0 days 39FF E 1275 3.93.1 Planted Sectional Completion Date - Section 4, Plant Commissioning 0 days Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 0 days E E E E E E E E E E E E E E E E	1271 1271 3.8.6.2 Commencement of site instantation work So day site in site instantation work So day site in site instantation work So day site instantation So day site insta	70 1270 5.38.6.1	Tentative Civil Handover Date, Portion B-4, BR2A & 2B (Rev. 5)											DV A # 475	
127212	12721272127212735.38.6.4CLP's smart meter installation and Final on-grid test with CLP30 days Thu 04/01/24Fri 02/02/24Thu 04/01/24Fri 02/02/24Sun 03/03/24Mon 01/04/2459 days 12721256FF12735.38.6.4CLP's smart meter installation and Final on-grid test with CLP30 days Thu 04/01/24Fri 02/02/24Sun 03/03/24Mon 01/04/2459 days 12721256FF127412745.39.1Plant Commissioning0 days Tuu 12/09/23Wed 08/05/24Tue 12/09/23Wed 01/05/24Wed 01/05/24Wed 01/05/240 days39FF12751275S.39.1Planned Sectional Completion Date - Section 4, Plant Commissioning0 days Wed 01/05/24Wed 01/05/24 <t< td=""><td>71 12715.38.6.2</td><td>Commencement of Site Installation Work</td><td>90 days</td><td>Mon 07/08/23</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	71 12715.38.6.2	Commencement of Site Installation Work	90 days	Mon 07/08/23										
No state No state <th< td=""><td>No. Solar No. Solar</td><td>1272 5.38.6.3</td><td>Technical Assessment, System Test and Installation</td><td>60 days</td><td>Sun 05/11/23</td><td>Wed 03/01/24</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PV - A x 4~6 men</td><td>a di na ma manana di s</td></th<>	No. Solar	1272 5.38.6.3	Technical Assessment, System Test and Installation	60 days	Sun 05/11/23	Wed 03/01/24								PV - A x 4~6 men	a di na ma manana di s
127 127 5.39.1 Planted Sectional Completion Date - Section 4, Plant Commissioning 0 days Wed 01/05/24	127 127 5.39.1 Planed Sectional Completion Date - Section 4, Plant Commissioning 0 days Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 0 days 127 127 5.39.2 Design Submission for Treatment Process Plant Testing & Commissioning 90 days Wed 01/1/23 Mon 29/01/24 Wed 01/05/24 Wed 01/05/24 Wed 01/05/24 0 days 127 127 127 5.39.2.1 Document Submission for T&C procedures 90 days Wed 01/11/23 Mon 29/01/24 Wed 01/05/24 Wed 01/05/24 Mon 13/05/24 105 days 1277 1277 127 Document Submission for T&C procedures 90 days Wed 01/11/23 Mon 29/01/24 Wed 01/05/24 Wed 11/02/24 Mon 13/05/24 105 days 1278FF-120 d	1273 5.38.6.4	CLP's smart meter installation and Final on-grid test with CLP	30 days	Thu 04/01/24	Fri 02/02/24	Thu 04/01/24	Fri 02/02/24	Sun 03/03/24	Mon 01/04/24	59 days 1				
1275 3.9.1 Praime Section in complexity over Sector i, intercasing with the section in the sect	1275 3.9.1 Primine Section Complexion Over Section 9 intercomplexion 0 intercomple	1274 5.39	Plant Commissioning	240 days	Tue 12/09/23	Wed 08/05/24	Tue 12/09/23	Wed 08/05/2	4 Tue 13/02/24	Mon 13/05/24	0 days		39FF		
1276 1276 5.39.2 Design Submission for Treatment Process Plant Testing & Commission in 90 days Wed 01/11/23 Mon 29/01/24 Wed 01/11/24 Mon 13/05/24 Mon 13/05/24 Io5 days 1277 1277 5.39.2.1 Document Submission for T&C procedures 90 days Wed 01/11/23 Mon 29/01/24 Wed 01/11/24 Wed 14/02/24 Mon 13/05/24 105 days	1276 1276 5.39.2 Design Submission for Treatment Process Plant Testing & Commissionin 90 days Wed 01/11/23 Mon 29/01/24 Wed 01/11/23 Mon 13/05/24 Ios days 1277 1277 5.39.2.1 Document Submission and Resubmission for T&C procedures 90 days Wed 01/11/23 Mon 29/01/24 Wed 01/11/23 Mon 13/05/24 105 days	1275 5.39.1	Planned Sectional Completion Date - Section 4, Plant Commissioning	0 days	Wed 01/05/24	Wed 01/05/24	Wed 01/05/24	4 Wed 01/05/2	4 Wed 01/05/24	Wed 01/05/24	0 days				
1277 1277 5.39.2.1 Document Submission and Resubmission for T&C procedures 90 days Wed 01/11/23 Mon 29/01/24 Wed 14/02/24 Mon 13/05/24 105 days 1278FF-120 d	1277 1277 5.39.2.1 Document Submission and Resubmission for T&C procedures 90 days Wed 01/11/23 Mon 29/01/24 Wed 01/12/2 Mon 13/05/24 105 days 1278FF-120 d		Design Submission for Treatment Process Plant Testing & Commissioni	n 90 days	Wed 01/11/23	Mon 29/01/24	Wed 01/11/2	3 Mon 29/01/2	4 Wed 14/02/24	Mon 13/05/24	105 days				
				i i i i i i i i i i i i i i i i i i i	Wed 01/11/23	Mon 29/01/24	Wed 01/11/23	Mon 29/01/24	Wed 14/02/24	Mon 13/05/24	105 days :	1278FF-120 d			
				I 7 days	Thu 08/02/24	Wed 14/02/24	Thu 08/02/24	Wed 14/02/2	4 Tue 13/02/24	Mon 19/02/24	0 days	931,977,997	1279,1277FF-120 days		



2:		a Department				A CONTRACTOR OF	Wu Hui Effluent I	Proposed W Polishing Plant - Ma	in Works Stage 1 E&M			
ID	WBS	Task Name	Duration between Task Start and Finish	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack Predeces	sors Successors	Resource Names	2020 2021 Half 1, 2020 Half 2, 2020 Half 1, 2021
1	279 5.39.4	MBR System Process Startup	35 days Thu 15/02/24	Wed 20/03/24	Thu 15/02/24	Wed 20/03/24	Tue 20/02/24	Mon 25/03/24	0 days 1278	1280		N J M M J S N J M
	280 5.39.5	Plant Commissioning	35 days Thu 21/03/24	Wed 24/04/24	Thu 21/03/24			Mon 29/04/24	0 days 1279	1283		
_	1281 5.39.6	Overall commissioning of CCTV system	30 days Tue 12/09/23	Wed 11/10/23	Tue 12/09/23	Wed 11/10/23		Mon 29/04/24	196 days 362,491,	602, 1283		-Accessed
	1282 5.39.7	Overall commissioning of Cert a science Overall commissioning of Facility Computerized Systems (SCADA, CMMS, PMS, ID	28 days Mon 11/12/23	Sun 07/01/24	Mon 11/12/23	Sun 07/01/24	Tue 02/04/24	Mon 29/04/24	108 days 354,483,			
				Wed 08/05/24	Thu 25/04/24		Tue 30/04/24	Mon 13/05/24	5 days 1280,128			
	1283 5.39.8	Overall Plant Commissioning and DSD pre-handover Inspections	14 days Thu 25/04/24									
1	1284 5.40	CE No. 009 - Provision of an Additional Primary Sludge Thickening System	375 days Tue 14/07/20	Fri 23/07/21	Tue 14/07/20			Fri 23/07/21	0 days			
1	1285 5.40.1	Detail Design Submission and Approval	77 days Tue 14/07/20	Mon 28/09/20	Tue 14/07/20			Mon 28/09/20	0 days	1287		
1	1286 5.40.2	Subletting, Procurement, Manufacturing and Delivery	120 days Fri 31/07/20	Fri 27/11/20	Fri 31/07/20	Fri 27/11/20	Fri 31/07/20	Fri 27/11/20	0 days			
1	1287 5.40.3	Site Installation	270 days Sat 17/10/20	Tue 13/07/21	Sat 17/10/20	Tue 13/07/21	Sat 17/10/20	Tue 13/07/21	0 days 1285	1288		
3 1	12885.40.4	Testing and Commissioning (Rev. 15)	10 days Wed 14/07/21	Fri 23/07/21	Wed 14/07/21	Fri 23/07/21	Wed 14/07/21	Fri 23/07/21	0 days 1287	1289FF		
1	1289 5.40.5	Planned Completion Date	1 day Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	Fri 23/07/21	0 days 1288FF			
) :	12906	Beam Plus Submissions	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	0 days			-
1	1291 6.1	SA10 - Environmental Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
2 1	1292 6.2	SA11 - Air Pollution During Construction	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		Exercise and a second
-	1293 6.3	SA12 - Noise During Construction	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
_	1294 6.4	SA14 - Noise from Building Equipment	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
	1295 6.5	SA15 - Light Pollution	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
_		SAIS - Light Pollution MAP1 - Timber used for Temporary Works	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days	39		
1	1296 6.6		1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days	39		
	1297 6.7	MAP2 - Use of Non-CFC Based Refrigerants				Fri 19/04/24		Tue 14/05/24	19 days	39		
	12986.8	MAP3 - Waste Management Plan	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20					39		
1	1299 6.9	MA2 - Modular and Standardized Design	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days			
	1300 6.10	MA8 - Ozone Depleting Substances	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days	39		
1	1301 6.11	MA11 - Construction Waste Reduction	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
2	1302 6.12	EUP1 - Minimum Energy Performance	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
3	1303 6.13	EU1 - Reduction of CO2 Emissions	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
4	1304 6.14	EU2 - Peak Electricity Demand Reduction	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
5	1305 6.15	EU6 - Renewable Energy Systems	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		Provident and the second s
5	1306 6.16	EU9 - Energy Efficient Appliances	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
7	1307 6.17	EU10 - Testing and Commissioning	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		Freedow and the first of the second sec
_	1308 6.18	EU11 - Operation and Maintenance	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
_	1309 6.19	EU12 - Meter and Monitoring	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
			1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days	39		
_	1310 6.20	WUP1 - Water Quality Survey	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days	39		
-	13116.21	WUP2 - Minimum Water Saving Performance				Fri 19/04/24		Tue 14/05/24	19 days	39		
2	13126.22	WU1 / WU6 - Annual Water Use / Effluent Discharge to Foul Sewers	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20					39		
13	1313 6.23	IEQP1 - Minimum Ventilation Performance	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days			
14	1314 6.24	IEQ1 - Security	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days	39		
5	1315 6.25	IEQ2 - Plumbing and Drainage	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
6	1316 6.26	IEQ3 - Biological Contamination	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		territy of the second
17	1317 6.27	IEQ5 - Construction IAQ Management	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
18	1318 6.28	IEQ6 / IEQ7 - IAQ	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
9	1319 6.29	IEQ9 - Increased Ventilation	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		The second distance of
_	1320 6.30	IEQ11 - Localised Ventilation	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		
	13216.31	IEQ12 - Ventilation in Common Areas	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24	Mon 25/05/20	Tue 14/05/24	19 days	39		La construction de la constructi
		IEQ12 - Ventilation in Common Areas IEQ13 - Thermal Comfort in Air - Conditioned Premises	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20	Fri 19/04/24		Tue 14/05/24	19 days	39		
	1322 6.32	IEQ13 - Thermal Comfort in Air - Conditioned Premises IEQ16 / IEQ17 - Interior Lighting in Normally Occupied Area / Interior	1450 days Fri 01/05/20	Fri 19/04/24	Fri 01/05/20			Tue 14/05/24	19 days	39		ter en
23	1323 6.33	LEQ16 / LEQ17 - Interior Lighting in Normally Occupied Area / Interior Lighting in Areas not Normally Occupied	1450 days FIT 01/03/20	F(1 13/04/24	11101/05/20	111 13/04/24	11011 23/03/20	102 14/03/24	15 40,5			
		a for a star and a star a star a	487 days Tue 25/02/20	Fri 25/06/21	Tue 25/02/20	0 Fri 25/06/21	Tue 25/02/20	Fri 25/06/21	0 days			
	13247	Summary of compensation events notified							0 days			⊛ 25/02
	1325 7.1	Compensation Event (CE) No. 001, Special Arrangement in Reducing the Ris	1	Tue 25/02/20				Tue 25/02/20				@ 08/06
26	13267.2	Compensation Event (CE) No. 002, the Contractor's Site Accommodation by		Mon 08/06/20				Mon 08/06/20	0 days			€ 22/04
27	13277.3	Compensation Event (CE) No. 003, Designated Area for the Contractor's Sit	e 1 day Wed 22/04/20	Wed 22/04/20				Wed 22/04/20	0 days			
28	13287.4	Compensation Event (CE) No. 005, Designated Area for the Contractor's Sto	1 day Wed 22/04/20	Wed 22/04/20				Wed 22/04/20	0 days		and the second	() 22/04 () () 7
29	13297.5	Compensation Event (CE) No. 007, Employment of Temporary Staff under	Ai 1 day Fri 10/07/20	Fri 10/07/20	Fri 10/07/20	Fri 10/07/20	Fri 10/07/20	Fri 10/07/20	0 days			⊚ 10/07
30	13307.6	Compensation Event (CE) No. 009, Provision of an Additional Primary Sludg	te 1 day Wed 15/07/20	Wed 15/07/20	Wed 15/07/2	Wed 15/07/20	0 Wed 15/07/20	Wed 15/07/20	0 days			⊛ 15/07
31	13317.7	Compensation Event (CE) No. 011, Dismantling, relocating, disconnecting a	n 1 day Wed 14/04/21	Wed 14/04/21	Wed 14/04/2	21 Wed 14/04/2	1 Wed 14/04/21	Wed 14/04/21	0 days			
	13327.8	NCE-PPMI-0202 (CE) Revised GA for F.S. & Sprinkler Pumping Room and Emergency Generator Room	1 day Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	0 days			I
33	1333 7.9	NCE-PPMI-0203 (CE) Revised General Arrangement for Temp. Chemical Sys	t 1 day Tue 15/12/20	Tue 15/12/20	Tue 15/12/20	D Tue 15/12/20	Tue 15/12/20	Tue 15/12/20	0 days		an a	1
	13347.10	NCE-PPMI-0204 (CE) Revised GA Layout Plan for DO Sys. No. 3A	1 day Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	Fri 18/12/20	0 days		a for a construction of the second of the second	
			1	and a second								
-	~	Task Milestone + Project	Summary Late					h	filestone (Actual) 🔸			
	stwise	Milestone, Tentative 🖲 Summary Manual	Summary 1 Critical		Progress		Slack (Float)	S	lack			
	ct: DE/2018/04											



D	Draina	age Service	s Department					Shek	Wu Hui Effluent P		Vork Program ain Works Sta			ealment Facilities	
	ID Y	WBS	Task Name	Duration between Task Start and Finish	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Free Slack	Predecessors	Successors	Resource Names	2020 2021 Half 1, 2020 Half 2, 2020 Half 1, 2021 Ha N J M M J S N J M M
1335	1335	7.11	NCE-PPMI-0205 (CE) Provision of Louvre Panel for Outdoor AC Units at Contractor's Site Accommodation	1 day	/ Mon 17/05/21	Mon 17/05/21	Mon 17/05/21	Mon 17/05/21	Mon 17/05/21	Mon 17/05/21	0 day:	1			1
1336	1336	7.12	NCE-PPMI-0206 (CE) Modification of Feeders of the existing switchboards at Inlet Work and Provision of MCB Distribution Boards and Cables for Sidewide Submersible Pumps	1 da	/Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	0 day:	5			1
1337	1337	7.13	NCE-PPMI-0207 (CE) Modification of Feeders of the existing switchboards at Inlet Consolidation House and Provision of MCB Distribution Boards and Cables for Sidewide Submersible Pumps	1 da	y Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	Wed 23/06/21	0 day:	5			1
1338	1338	87.14	NCE-PPMI-0208 (CE) Modification of Feeders of the existing switchboards at Membrane Facilities Building and Provision of MCB Distribution Boards and Cables for Sidewide Submersible Pumps	1 da	y Fri 25/06/21	Fri 25/06/21	Fri 25/06/21	Frì 25/06/21	Fri 25/06/21	Fri 25/06/21	0 day	s .			L
1339	1339	97.15	NCE-PPMI-0211 (CE) Provision of a New Chemical Storage and Dosing System fo the Application of Glycerin to Replace Methanol as an Alternative External Carbon Source for the Denitrification Process at BR2A and BR2B	1 da	y Wed 08/07/20	Wed 08/07/20	Wed 08/07/20	Wed 08/07/20	Wed 08/07/20	Wed 08/07/20	0 day	S			1
1340	1340	7.16	NCE-PPMI-0213 (CE) Revised General Arrangement for Chemical System No	. 1 da	y Tue 05/01/21	Tue 05/01/21	Tue 05/01/21	Tue 05/01/21	Tue 05/01/21	Tue 05/01/21	0 day	s			1
1341	1341	17.17	NCE-PMI-0219 (CE) Provision and Removal of the Blank Flange to Blank Off Drain Valve and Temporary Submersible Pumps in PST No. 6	1 da	y Thu 22/04/21	Thu 22/04/21	Thu 22/04/21	Thu 22/04/21	Thu 22/04/21	Thu 22/04/21	0 day	S			1
1342	1342	27.18	NCE-PMI-0223 (CE) Revised GA for Chemical Pipe Trench	1 da	y Wed 07/04/21	Wed 07/04/21	Wed 07/04/21	Wed 07/04/21	Wed 07/04/21	Wed 07/04/21	0 day	s			1
1343	1343	3 7.19	NCE-PMI-0226 (CE) Modification Works of Manhole Cover for MHD13 for Filtrate Intake Pipe of Primary Sludge Thickening System	1 da	y Fri 30/04/21	Fri 30/04/21	Fri 30/04/21	Fri 30/04/21	Fri 30/04/21	Fri 30/04/21	0 day	s			1
1344	1344	47.20	NCE-PMI-0227 (CE) Provision of Project Jackets with Fleece Vests	1 da	y Thu 29/04/21	Thu 29/04/21	Thu 29/04/21	Thu 29/04/21	Thu 29/04/21	Thu 29/04/21	0 day	s			1
1345	1345	57.21	NCE-PMI-0234 (CE) Provision of removal of the blank flange to blank off drain valve of PST No. 4	1 da	y Tue 25/05/21	Tue 25/05/21	Tue 25/05/21	Tue 25/05/21	Tue 25/05/21	Tue 25/05/21	0 day	s			1

	Task	geographic sectors and	Milestone	+	Project Summary	P	1 Late		Critical Split	 Manual Progress	 Milestone (Actual)	*
Bestwise	Milestone, Tentative	۲	Summary	······································	Manual Summary		1 Critical	1	Progress	 Slack (Float)	 Slack	
Project DE/2018/04												
Date: 30/11/21												
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2021	2022 Half 1, 2022 J M N	Half 2, 2022	2023 Half 1, 2023 N J M	Half 2, 202	2024 3 Half 1, 2 5 N J	024 M M
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Contract No. DE/2018/04 Shek Wu Hui Effluent Polishing Plant - Main Works Stage 1 - E&M Works for Sewage Treatment Facilities 3 Month Rolling Programme (From 02/11/2021 to 01/02/2022)

Item	Major Activities & Submission in coming 3 months	Time							ogress 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												
KD1A: Submission of civil and dimensional equirement drawing, electrical schematic drawings, etc. from formation level up to +8mPD in accordance	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%		
ith the contract requirement of Contract No. C/2018/07 to carry out civil works construction	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 dimenssional 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 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 of civil works. KD3A - 29 July 2020. Joint Site Inspection was conducted on 24 July 2020 and Notice of completion of submitted on 28 July 2020
	KD3A: 29 July 2020											
KD3B: 6B.2.15 Operation Restoration of Existing Primary Sedimentation Tank (PST) No. 4 and 6	KD3B: System Commissioning for PST No. 4 & 6	N/A	6/22/2021	N/A	9/3/2021	Task Completed				100%		Wet test (2nd) for PST#6 completed on 3 Sep 2021 and pre-handover inspection on 30 Aug 2021. Defect list (final) received on 17 Sep 2021 and to be rectified 2021. Training shall be carried out in early December.
	KD3B: 9 June 2021											
Section 1 of Works (outstanding works list)				1. Section of the sec								
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.2.16 Temporary Filtrate Equalisation System	Mechanical Installation	3/17/2021	3/30/2021	4/12/2021	5/14/2021	Task Completed		-		-		
0.2.10 Temporary Titrate Equinisation System	Electrical Installation	3/13/2021	3/29/2021	4/15/2021	12/10/2021	93%				-		PLC programme for water spray system (stage 1) is on-going, motorized gate va 2 under PMI is being fabricated and the delivery lead time is by end November. diagram was sent to AECOM for review. Bestwise to check the delivery time fo
	Testing and Comissioning	4/15/2021	4/22/2021	5/1/2021	12/10/2021	93%				-		Auto mode (without water spray system) is adpoted, water spray system (stage 2 PMI shall be commenced after delivery of motorized gate valve (by end Novem
6B.2.1 Inlet Works	Submission of Contractor's Design for Inlet Works No. 1	9/6/2020	11/16/2020	5/14/2021	12/31/2021	91%				-	Bestwise	Finalized design calculations for Inlet Works no.1 shall be submitted by 31 Dec
	Submission of P&M Submission	9/6/2020	9/7/2020	5/14/2021	12/31/2021	92%						 P&M0003 (rev.3) for coarse screen and fine screen was submitted on 10 Feb 20 AECOM accepted subject to comments on 16 Feb 2021. P&M submission (rev. 1) for inlet pumps was submitted on 10 Feb 2021. AECO subject to comments on 1 Apr 2021. P&M (rev.1) for penstock and actuator was submitted on 28 Jan 2021. AECON commented on 12 Mar 2021. Finalized material submissions for Inlet Works no.1 shall be submitted by 31 Decommented by 31 Decommented
	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 comment 2020.
	Submission of GA Drawing	9/6/2020	1/5/2021	5/14/2021	12/31/2021	89%						E&M GA submission submitted on 6 Feb 2021. AECOM commented on 19 Fe Bestwise resubmitted DWG-0082 Rev.1 on 9 July 2021. Electrical GA submitted on 7 Apr 2021. AECOM commented on 21 Apr 2021. resubmitted DWG-0095 Rev.1 on 3 July 2021 and accepted by AECOM. Finalized drawings for Inlet Works no.1 shall be submitted by 31 Dec 2021.

All the CWR Drawings were submitted.

23-Nov-21

vas conducted on 3 July 2020. Remaining test would be subjected to completion rks. July 2020.

inspection was conducted on 24 July 2020 and Notice of completion of work was on 28 July 2020

and) for PST#6 completed on 3 Sep 2021 and pre-handover inspection arranged 2021. Defect list (final) received on 17 Sep 2021 and to be rectified by 30 Nov ning shall be carried out in early December.

amme for water spray system (stage 1) is on-going, motorized gate valve for stage II is being fabricated and the delivery lead time is by end November. Flow as sent to AECOM for review. Bestwise to check the delivery time for cables.

e (without water spray system) is adpoted, water spray system (stage 2) under be commenced after delivery of motorized gate valve (by end November)

design calculations for Inlet Works no.1 shall be submitted by 31 Dec 2021.

(rev.3) for coarse screen and fine screen was submitted on 10 Feb 2021. ccepted subject to comments on 16 Feb 2021.

nission (rev. 1) for inlet pumps was submitted on 10 Feb 2021. AECOM accepted comments on 1 Apr 2021.

naterial submissions for Inlet Works no.1 shall be submitted by 31 Dec 2021.

) submitted on 13 Nov 2020. AECOM accepted subject to comments on 29 Dec

submission submitted on 6 Feb 2021. AECOM commented on 19 Feb 2021. esubmitted DWG-0082 Rev.1 on 9 July 2021. GA submitted on 7 Apr 2021. AECOM commented on 21 Apr 2021. Bestwise d DWG-0095 Rev.1 on 3 July 2021 and accepted by AECOM. drawings for Inlet Works no.1 shall be submitted by 31 Dec 2021.

	Submission of Electrical Drawing	9/6/2020	1/15/2021	5/14/2021	12/31/2021	89%			Electrical SLD resubmit. Finalized draw
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	1/21/2022	76%	-		
B.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	5/31/2022	64%	-	Bestwise	PFD (rev.B) ur Finalized desig
	Submission of P&M Submission	9/6/2020	11/26/2020	5/14/2021	5/31/2022	66%			Plant and Mate on 5 Feb 2021 Finalized mate
	Submission of P&ID Drawing	9/6/2020	10/2/2020	5/14/2021	6/24/2021	Task Completed			PID under DW
	Submission of GA Drawing	9/6/2020	2/3/2021	5/14/2021	5/31/2022	61%			Mechanical G Electrical GA AECOM. Finalized draw
	Submission of Electrical Drawing	9/6/2020	1/15/2021	5/14/2021	5/31/2022	62%			Electrical SLD resubmit. Finalized draw
	Acceptance of submission	5/15/2021	4/2/2021	5/29/2021	6/21/2022	53%	-		
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 calcula AECOM com 2021 and CDS Finalized desig
	Submission of P&M Submission	9/6/2020	9/6/2020	5/14/2021	10/30/2021	Task Completed			Finalized mate
	Submission of P&ID Drawing	9/6/2020	12/11/2020	5/14/2021	6/29/2021	Task Completed			PID resubmitte 2021 and DW0
	Submission of GA Drawing	9/6/2020	2/8/2021	5/14/2021	11/19/2021	101%			Electrical GA accepted subje Mechanical G April 2021. Be AECOM. Mechanical G Finalized drav
	Submission of Electrical Drawing	9/6/2020	1/15/2021	5/14/2021	11/19/2021	101%			Electrical SLL resubmit. Finalized drav
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/10/2021	92%	-		
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	6/30/2022	59%	-	Bestwise	PFD (rev.1) su comment. MBR system p accepted on 12 Electrical CDS Finalized desi
	Submission of P&M Submission	9/6/2020	11/26/2020	5/14/2021	6/30/2022	62%			P&M0053 Mi Finalized mate
	Submission of P&ID Drawing	9/6/2020	11/2/2020	5/14/2021	7/2/2021	Task Completed			PID (Rev.1) u
	Submission of GA Drawing	9/6/2020	2/17/2021	5/14/2021	6/30/2022	56%			Mechanical G Electrical GA Finalized drav
	Submission of Electrical Drawing	9/6/2020	1/15/2021	5/14/2021	6/30/2022	59%			Electrical SLL resubmit. Finalized drav
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	7/21/2022	44%	-		
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	6/30/2022	59%	-	Bestwise	PFD (rev.1) su comment. MBR system accepted on 1 Finalized desi

LD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to

awings for Inlet Works no.1 shall be submitted by 31 Dec 2021.

) under DWG0004 submitted on 22 June 2021. esign calculations for PST shall be submitted by 31 May 2022.

Material (P&M0044) submission (Rev. 0) for primary sludge pump was submitted 021. AECOM commented on 1 Apr 2021. Bestwise to resubmit. naterial submissions for PST shall be submitted by 31 May 2022.

DWG0037 (rev.1) submitted on 24 June 2021 and is accepted by AECOM.

I GA was submitted on 19 Jun 2021. GA under DWG0103 (rev.1) was submitted on 6 Jul 2021 and is accepted by

rawings for PST shall be submitted by 31 May 2022. LD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to

rawings for PST shall be submitted by 31 May 2022.

ulation (rev.0) of CHS1 and TCHS submitted on 2 Sep 2020 and 28 Aug 2020, mmmented on 24 Sep and 6 Oct 2020, Bestwise submitted CDS0060 on 15 Jul DS0044 on 19 Jul 2021.

esign calculation for chemical systems was submitted on 29 Oct 2021.

aterial submissions for chemical system was submitted on 30 Oct 2021.

nitted under DWG0053 (rev.1) on 28 Jun 2021, DWG0057 (rev.1) on 29 Jun 20058 (rev.1) on 29 Jun 2021.

GA drawings for CS1 under DWG0096 submitted on 10 April 2021. AECOM abject to comments on 17 Apr 2021.

GA drawings for CS1 submitted on 1 April 2021. AECOM commented on 24 Bestwise resubmitted DWG0093 (rev.1) on 30 Jun 2021 and is accepted by

l GA for Temp CS submitted on 12 Jun 2021. Irawings for chemical systems shall be submitted by 19 Nov 2021.

LD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to

rawings for chemical system shall be submitted by 19 Nov 2021.

) submitted on 3 Nov 2020. AECOM accepted on 7 Dec 2020 subject to

m process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM n 17 Nov 2020 subject to comments.

CDS submitted on 23 Jun 2021.

esion calculations shall be submitted by 30 June 2022

Mixed Liquor Return (MLR) Pump was resubmitted formally on 17 Jun 2021. naterial submission shall be submitted by 30 June 2022.) under DWG0042 resubmitted on 6 July 2021.

l GA under DWG0132 submitted on 26 Jun 2021 and is accepted by AECOM. 3A submitted on 23 Jun 2021. rawing shall be submitted by 30 June 2022.

SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to

rawing shall be submitted by 30 June 2022.

submitted on 3 Nov 2020. AECOM accepted on 10 Dec 2020 subject to

m process and design calculation (rev.2) submitted on 6 Nov 2020. AECOM n 17 Nov 2020 subject to comments. esign calculations shall be submitted by 30 June 2022.

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	Submission of P&M Submission	9/6/2020	11/19/2020	5/14/2021	6/30/2022	63%			P&M (rev.0) commented o P&M0050 (ri commented o P&M0072 (ri commented o P&M0069 (ri on 23 Apr 20 P&M0047 (ri on 12 May 20 P&M0073 & AECOM forr
									Finalized ma
	Submission of P&ID Drawing	9/6/2020	10/30/2020	5/14/2021	7/2/2021	Task Completed			DWG0049 (I
	Submission of GA Drawing	3/31/2021	2/18/2021	5/14/2021	6/30/2022	56%			DWG0121 (r Finalized dra
	Submission of Electrical Drawing	4/15/2021	1/15/2021	5/14/2021	6/30/2022	59%			Electrical SL resubmit. Electrical GA Finalized dra
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	7/21/2022	44%	-		
6B.2.6 Deodorisation System (EQT-001 - Deodorization Unit)	Tender award (C11)	4/25/2020	4/25/2020	5/12/2020	5/12/2020	Task Completed	100%	Bestwise	Bestwise sub Bestwise to r
	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 System , DOU No. 1 (CDS0019 & CDS0045)	9/6/2020	9/6/2020	5/14/2021	12/31/2021	92%	-		Design Calcu 2021, Bestwi Finalized des
	Submission of P&ID Drawing of DOU No. 1	9/6/2020	8/5/2020	5/14/2021	7/2/2021	Task Completed	-	Bestwise	Bestwise res Apr 2021.
	Submission of GA Drawing of DOU No. 1	9/6/2020	9/6/2020	5/14/2021	12/31/2021	92%			GA submitte Finalized dra
	Submission of Electrical Drawing of DOU No. 1	3/21/2021	1/30/2021	5/14/2021	12/31/2021	89%			Control wirin 2021. Bestwi Finalized dra
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	1/21/2022	76%	 -		
	Submission of Contractor's Design for Deodorisation System , DOU No. 2A (CDS0019 & CDS0048)	9/6/2020	9/6/2020	5/14/2021	6/30/2022	67%	-		Design Calcu 2021, Bestw Finalized des
	Submission of P&ID Drawing of DOU No. 2A	9/6/2020	8/5/2020	5/14/2021	7/2/2021	Task Completed	-	Bestwise	Bestwise res Apr 2021.
	Submission of GA Drawing of DOU No. 2A	9/6/2020	8/3/2020	5/14/2021	6/30/2022	69%	-	Bestwise	Bestwise sub to resubmit. Finalized dra
	Submission of Electrical Drawing of DOU No. 2A	3/21/2021	1/26/2021	5/14/2021	6/30/2022	58%			Bestwise sub to resubmit. Finalized dra
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	7/21/2022	44%	-		
	Submission of Contractor's Design for Deodorisation System , DOU No. 3A (CDS0019)	9/6/2020	9/6/2020	5/14/2021	10/21/2021	Task Completed	-		Design Calco 2021, Bestw Finalized des
	Submission of P&ID Drawing of DOU No. 3A	9/6/2020	8/5/2020	5/14/2021	7/2/2021	Task Completed	-	Bestwise	Bestwise res Apr 2021.
	Submission of GA Drawing of DOU No. 3A	9/6/2020	7/8/2020	5/14/2021	11/19/2021	101%	-	Bestwise	Bestwise sub Bestwise res Finalized dra
	Submission of Electrical Drawing of DOU No. 3A	3/21/2021	2/26/2021	5/14/2021	11/19/2021	102%			Bestwise sub resubmit. GA submitte Finalized dra
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	12/10/2021	92%			
	Submission of Contractor's Design for Deodorisation System , DOU No. 3B (CDS0019 & CDS0049)	9/6/2020	9/6/2020	5/14/2021	6/30/2022	67%			Design Calc 2021, Bestw Finalized de
	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 res Apr 2021.

0) for penstock and actuator was submitted on 20 Nov 2020. AECOM d on 5 Jan 2021. Bestwise to resubmit

(rev. 0) for membrane tank drain pump was submitted on 5 Mar 2021. AECOM d on 29 Mar 2021. Bestwise resubmitted formally on 19 Jun 2021.

(rev. 0) for membrane module was submitted on 20 Apr 2021. AECOM d on 20 May 2021, Bestwise to re-submit.

(rev.0) for permeate pump was submitted on 4 Mar 2021. AECOM commented 2021. Bestwise resubmitted formally on 19 Jun 2021.

(rev. 1) for RAS pump was resubmitted on 17 Apr 2021. AECOM commented 2021, Bestwise resubmitted formally on 19 Jun 2021.

& 0074 (rev.0) for aeration blower and air scouring blower was submitted to formally on 19 Jun 2021.

naterial submission shall be submitted by 30 June 2022.

(Rev.1) was resubmitted on 2 Jul 2021.

(rev.1) was resubmitted to AECOM on 17 Jul 2021 trawings shall be submitted by 30 June 2022.

SLD submitted on 5 Feb 2021. AECOM commented on 20 Feb 2021. Bestwise to

GA under DWG0079 (rev.1) was resubmitted on 8 Jul 2021. drawings shall be submitted by 30 June 2022.

ubmitted tender report on 13 May 2020. AECOM commented on 23 July 2020, o resubmit.

lculation (Rev.0) was submitted on 24 Nov 2020. AECOM commented on 6 Jan twise to resubmit. Bestwise submitted CDS0045 on 3 June 2021. design shall be submitted by 31 Dec 2021. (follow Inlet Works)

esubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13

itted on 21 Jun 2021

drawings shall be submitted by 31 Dec 2021. (follow Inlet Works)

iring diagrams was resubmitted on 1 April 2021. AECOM commented on 23 Apr twise to resubmit.

drawings shall be submitted by 31 Dec 2021. (follow Inlet Works)

alculation (Rev.0) was submitted on 24 Nov 2020. AECOM commented on 6 Jan twise to resubmit. Bestwise submitted CDS0048 on 17 June 2021. design shall be submitted by 30 June 2022. (follow BR2A2B)

resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13

submitted (rev.1) on 30 Oct 2020. AECOM commented on 16 Dec 2020. Bestwise

drawing shall be submitted by 30 June 2022. (follow BR2A2B)

submitted (rev.0) on 26 Jan 2021, AECOM commented on 4 Feb 2021. Bestwise

drawing shall be submitted by 30 June 2022. (follow BR2A2B)

llculation (Rev.0) was submitted on 24 Nov 2020. AECOM commented on 6 Jan twise to resubmit.

design was submitted on 21 Oct 2021.

resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13

submitted (rev.1) on 28 Oct 2020. AECOM commeneted on 16 Dec 2020. resubmitted on 24 June 2021.

drawing shall be submitted by 19 Nov 2021.

submitted on 17 Apr 2021. AECOM commented on 27 Apr 2021. Bestwise to

itted on 24 Jun 2021 drawing shall be submitted by 19 Nov 2021.

alculation (Rev.0) was submitted on 24 Nov 2020. AECOM commented on 6 Jan stwise to resubmit. Bestwise submitted CDS0049 on 18 June 2021. design shall be submitted by 30 June 2022.

resubmitted rev.3 on 29 Mar 2021. AECOM accepted subject to comments on 13

				r	,		1	1	Bestwise submitted DWG0081 (rev.0) on 5 Feb 2021. AECOM commented on 12 Mar
	Submission of GA Drawing of DOU No. 3B	9/6/2020	9/6/2020	5/14/2021	6/30/2022	67%			2021. Bestwise to resubmit. Finalized drawing shall be submitted by 30 June 2022.
	Submission of Electrical Drawing of DOU No. 3B	3/21/2021	2/22/2021	5/14/2021	6/30/2022	56%			GA submitted on 24 Jun 2021 Finalized drawing shall be submitted by 30 June 2022.
	Acceptance of submission	5/15/2021	5/15/2021	5/29/2021	7/21/2022	44%		-	
		5/15/2021						1000/	- AECOM accepted tender report on 6 July 2020.
SC008 - Design, Supply and Installation of detailed	Acceptance of tender award (C9) Submission of detailed design for lifting appliances for	-	-	-	7/6/2020	Task Completed		100%	
sign for lifting appliances	Inlet Works No. 1 (CDS050-1)	9/6/2020	12/5/2020	9/6/2020	12/31/2021	90%			DWG 0055 (Rev.0) was submitted on 13 Mar 2021. AECOM commented on 20 Apr 202 Bestwise to resubmit. Bestwise submitted P&M0025 on 15 June 2021. Finalized design shall be submitted by 31 Dec 2021.
	Submission of detailed design for lifting appliances for Primary Sedimentation Tanks (CDS050-2)	9/6/2020	12/5/2020	9/6/2020	5/31/2022	65%			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 31 May 2022.
	Submission of detailed design for lifting appliances for BR 2A and 2B (CDS050-3)	9/6/2020	12/5/2020	9/6/2020	5/31/2022	65%			DWG 0065 (Rev.0) was submitted on 18 Jan 2021. AECOM commented on 9 Mar 202 Bestwise to resubmit. Finalized design shall be submitted by 31 May 2022.
	Submission of detailed design for lifting appliances for MFB (CDS050-4)	9/6/2020	12/5/2020	9/6/2020	5/31/2022	65%			DWG 0066 (Rev.1) was submitted on 1 Mar 2021. AECOM commented on 5 Mar 2021 Bestwise to resubmit. Finalized design shall be submitted by 31 May 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 condition on 21 May 2021. Bestwise submitted P&M0021 on 21 June 2021.
Building Services System	Submission for MVAC system	N/A	12/10/2020	N/A	6/30/2022	61%			Design calculations and drawings for inlet works was submitted on 16 Dec 2020. AECO 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 June 2022.
	Submission for Fire Services System	N/A	3/15/2021	N/A	6/30/2022	54%			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 June 2022.
	Submission for Plumbing and Drainage System	N/A	3/15/2021	N/A	6/30/2022	54%			Subletting Package resubmitted by 10 Mar 2021. AECOM accepted on 12 Mar 2021. Tender invitation was conducted on 15 Mar 2021 and closed on 26 Mar 2021. Finalized design shall be submitted by 30 June 2022.
	Submission for Electrical Services System	N/A	12/10/2020	N/A	6/30/2022	61%			GA for lighting was submitted on 18 Dec 2020. AECOM commented on 6 Jan 2021. Bestwise to resubmit. GA for small power system was submitted in 8 Feb 2021. AECOM commented on 3 Ma 2021. Bestwise to resubmit. Finalized design shall be submitted by 30 June 2022.
	Submission of ELV system	N/A	1/8/2021	N/A	9/30/2022	51%			GA for CCTV was resubmitted on 16 Mar 2021. AECOM commented on 30 Mar 2021 Bestwise resubmitted on 25 Jun 2021. Finalized design shall be submitted by 30 Sep 2022.
	Submission for PV system	N/A	3/15/2021	N/A	6/30/2022	54%			Tender package was submitted to AECOM. Finalized design shall be submitted by 30 June 2022.
CADA System & PMS	Submission for SCADA system	N/A	2/11/2021	N/A	8/31/2022	50%			Revised SCADA structure was provided via email on 9 Apr 2021 and tender package is under preparation. Finalized design shall be submitted by 31 Aug 2022.
	Submission for PMS system	N/A	3/8/2021	N/A	8/31/2022	48%			Tender package to be resubmitted on 29 June 2021. Finalized design shall be submitted by 31 Aug 2022.
	Submission for CMMS & IDMS system	N/A	6/1/2021	N/A	8/31/2022	38%			Finalized design shall be submitted by 31 Aug 2022.
ction 2 of Works									
ghtning Protection System for DOU3A nderground)	Submission and Acceptance for Lightning Protection System Design	12/6/2021	12/6/2021	1/31/2022	1/31/2022				
	Material Delivery	12/15/2022	12/15/2022	3/31/2022	3/31/2022				
	Installation Work	1/2/2022	1/2/2022	12/31/2022					Underground works subject to site coordination
	Testing & Commissioning			1/31/2023	1/31/2023				
	Submission and Acceptance for Lightning Protection	1/7/2023	1/7/2023	1/31/2023	1/31/2023				
ightning Protection System for Inlet Works underground)	Submission and Acceptance for Lightning Protection System Design	12/20/2021	12/20/2021	1/31/2022	1/31/2022				

												1
	Material Delivery	12/15/2022	12/15/2022	3/31/2022	3/31/2022							
	Installation Work	2/15/2022	2/15/2022	10/30/2022	10/30/2022							Underground w
	Testing & Commissioning	11/1/2022	11/1/2022	11/15/2022	11/15/2022							
Section 3 of Works												
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
	Completion Date of Section 3: 22 September 2021											
					Alexand Bach	de la compañía						
Subcontracting	Testing and Comissioning				17-19 (CA)		SCEPHER.					
Temporary Primary Sludge Thickener and its accessories (Sub-programme was provided by Bestwise)	Testing and Comissioning	15/11/2020 -> 15/01/2021*	5/8/2021	22/11/2020 - > 22/01/2021*	12/10/2021	92%				-		The installation thickener syster conducted subj while the instal completed by e submersible mi
Plant and Materials (Marking Scheme)		State State State	en de Transfer		official states		State of the second	16 July			- Sacas Statistics	4 10 10 10 4 (48) 78.
PS Clause no. 6B.2.1	Tender award	6/5/2020	9/19/2020	10/5/2020	10/7/2020	Task Completed				100%		Technical Subr submitted on 7
Inlet Pump	Acceptance of tender award	6/19/2020	10/17/2020	10/19/2020	11/15/2020	Task Completed				-		
		5/15/0000	0.120.12020	9/15/2020	9/1/2020	Task Completed				100%		AECOM accept
PS Clause no. 6B.2.4	Acceptance of marking scheme by the PM Tender invitation	5/15/2020 5/29/2020	8/20/2020 11/20/2020	9/13/2020	12/11/2020	Task Completed				100%		Tender invitati
MBR Pre-treatment Screen	Tender award	6/5/2020	12/13/2020	10/5/2020	3/3/2021	Task Completed				100%		Technical Subr 22 Jan 2021. Tender Report Bestwise subm
		5/15/0000	8/20/2020	0/15/2020	9/1/2020	Task Completed				100%		AECOM accept
PS Clause no. 6B.2.4 Air Diffusion System	Acceptance of marking scheme by the PM Tender invitation	5/15/2020 5/29/2020	8/20/2020 2/17/2021	9/15/2020 9/29/2020	3/12/2021	Task Completed				100%		Procurement pa Tender invitation 2021. Tender r on 12 Mar 202
	Tender award	6/5/2020	3/18/2021	10/5/2020	4/20/2021	Task Completed				-		Technical Sub 30 Mar 2021.
	Acceptance of tender award	6/19/2020	2/20/2021	10/19/2020	3/12/2021	Task Completed				-		
DC Clause en CD 2.4	Acceptance of marking scheme by the PM	5/28/2020	8/20/2020	9/28/2020	9/1/2020	Task Completed				100%		AECOM accep
PS Clause no. 6B.2.4 BR Aeration Blower	Tender invitation	6/11/2020	2/3/2021	10/12/2020	3/3/2021	Task Completed				100%		Procurement p Jan 2021. Tender invitati
	Tender award	6/18/2020	3/4/2021	10/19/2020	4/12/2021	Task Completed				-		Technical Sub on 19 Mar 202
	Acceptance of tender award	7/2/2020	3/4/2021	11/2/2020	3/25/2021	Task Completed				-		AECOM accept
PS Clause no. 6B.2.4 Membrane Modules, Cassettes / Racks	Tender award	6/18/2020	10/6/2020	10/19/2020	11/2/2020	Task Completed				100%		Technical Sub submitted on 2
	Acceptance of tender award	7/2/2020	11/3/2020	11/2/2020	11/24/2020	Task Completed				-		
PS Clause no. 6B.2.4	Tender award	6/18/2020	10/30/2020	10/19/2020	12/2/2020	Task Completed				100%		Technical Sub- submitted on 2
RAS Pump		A 10 10 0 0 0	11/21/2020	11/2/2020	12/12/2020	Task Completed				-		
	Acceptance of tender award	7/2/2020	11/21/2020	11/2/2020	12/12/2020	Task Completed			+			

d works subject to site coordination

r to DSD.

ation of mixing pipe and bypass pipe was completed on 25 Oct 2021. The ystem has been trial run on 29 Oct 2021 and the commissioning shall be subject to mixing; the installation of FRP maintenance platform was completed istallation work for wash water infeed pipe connection (primary source) to be by end November. The modification work and installation of additional e mixer to be carried out subject to confirmation.

Submission Evaluation Report was submitted on 5 Oct 2020, Tender report was on 7 Oct 2020. AECOM noted on 8 Oct 2020.

cepted on 1 Sep 2020

tation was conducted on 20 Nov 2020 and returned on 11 Dec 2020. Tender ubmission Evaluation Report was submitted on 12 Jan 2021. AECOM noted on

ort was submitted on 4 Feb 2021, AECOM commented on 19 Feb 2021, abmitted supplementary information on 26 Feb 2021. AECOM noted on 3 Mar

scepted on 1 Sep 2020, subject to conditions. In package would follow the approved format (i.e. aeration blower) itation was conducted on 17 Feb 2021. Addendum No. 1 was issued on 18 Feb ler return date was extended from 26 Feb 2021 to 12 Mar 2021. Tender returned 2021

Submission Evaluation Report was submitted on 18 Mar 2021. AECOM noted on 21. Tender Report was submitted on 8 Apr 2021. LOI was issued to supplier.

cepted on 1 Sep 2020

nt package was submitted to AECOM under CGS-066. AECOM replied on 29

tation was conducted on 3 Feb 2021. Tender returned on 3 Mar 2021

Submission Evaluation Report was submitted on 10 Mar 2021. AECOM noted 2021. Tender Report was submitted on 24 Mar 2021. LOI was issued to supplier. ccepted on 1 Sep 2020, subject to conditions.

ubmission Evaluation Report was submitted on 14 Oct 2020, Tender report was in 2 Nov 2020. AECOM noted on 4 Nov 2020.

ubmission Evaluation Report was submitted on 6 Nov 2020. Tender report was on 24 Nov 2020, AECOM noted on 2 Dec 2020.