JOB NO.: TCS01062/19

EPD CONTRACT NO. EP/SP/86/15
ORGANIC WASTE TREATMENT FACILITIES PHASE 2

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT (FEBRUARY 2021)

PREPARED FOR

AJA JOINT VENTURE

Date	Reference No.	Prepared By	Certified By
29 March 2021	TCS01062/19/600/R0132v5	Martin Li (Environmental Consultant)	Tam Tak Wing (Environmental Team Leader)

Version	Date	Remarks
1	2 March 2021	First Submission
2	10 March 2021	Amended against IEC's comments
3	10 March 2021	Amended against IEC's comments
4	11 March 2021	Amended against IEC's comments
5	29 March 2021	Waste Flow Table Updated

Your ref TCS1062/19/300/L0139
Our ref 271491/02-09/MY/KL/NL-1136
File ref 02-09

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Attn: Mr. Chris Leung

1 April 2021

Dear Sir

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities Phase 2
Monthly Environmental Monitoring & Audit Report (February 2021)

Further to our verification letter reference 271491/02-09/MY/KL/NL-1079 issued on 11 March 2021, we noted there have been updates to the Monthly Environmental Monitoring & Audit Report (February 2021).

Referring to your letter referenced above dated 30 March 2021, pursuant to Permit Condition 3.4 of the Environmental Permit No. FEP-01/460/2013/A, we hereby verify that the revised report ref. no. TCS01062/19/600/R0132v5 complied in general with the requirements as set out in the EM&A Manual.

Should you have any queries, please contact the undersigned at 2268 3206.

Yours faithfully

Martin Yu
Independent Environmental Checker

cc EPD – Ms. Queenie Ng, Ms. Angel Wong, Mr. Sunny Chiu
Mr. Laurence Lau, Mr. Jason Tsang, Miss Cherry Ho
AECOM – Mr. Desmond Ng, Mr. Ben Tsang, Mr. Tony Lu
Mr. K. C. Chu, Mr. T. Y. Lou, Mr. YW Mok, Ms. Karie Ng
Mr. W.W. Tong, Mr. Y.K. Pang, Mr. Philip Cheung
AJA JV – Mr. Johnny Leung, Mr. George Lee, Mr. Max Ngok
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EXECUTIVE SUMMARY

ES01 Environmental Protection Department (hereinafter referred as "EPD") is the Project Proponent for the Project *"Organic Waste Treatment Facilities Phase 2"* (hereinafter referred as "the Project"). The Project is a Designated Project to be implemented under Environmental Permit No. EP-460/2013 (hereinafter referred as "the EP"). In accordance with the Works Contract requirements, the Contractor shall take over the responsibility of the EP. Based on the requirement, Further Environmental Permit FEP-01/460/2013/A (hereinafter referred as "the FEP") was applied by AJA Joint Venture (hereinafter referred as "AJAJV").

ES02 Action-United Environmental Services & Consulting (hereinafter referred as "AUES") was employed as Environmental Team (hereinafter referred as "ET") to implement monitoring programmes and as well as the associated duties.

ES03 This is the monthly EM&A report presenting the environmental monitoring results and inspection findings for the reporting period from **1 to 28 February 2021** (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES04 Environmental monitoring activities under the EM&A program in this Reporting Period are summarized in the following table.

Table ES-1 Summary of Environmental Monitoring Activities Undertaken in the Reporting Period

Issues	Environmental Monitoring Parameters / Inspection	Sessions
Construction Noise	Leq (30min) Daytime	16
Inspection / Audit	ET Regular Environmental Site Inspection	4

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES05 No daytime construction noise monitoring exceedance was recorded in this Reporting Period. The statistics of environmental exceedance and investigation of exceedance are summarized in the following table.

Table ES-2 Summary of Environmental Monitoring Parameter Exceedance in the Reporting Period

Environmental Issues	Monitoring Parameters	Action Level	Limit Level	Event & Action	
				Investigation Results	Corrective Actions
Construction Noise	Leq_{30min} Daytime	0	0	NA	NA

SITE INSPECTION

ES06 In the Reporting Period, weekly site inspections to evaluate the site environmental performance had been carried out by ET on ***3rd, 10th, 19th*** and ***24th February 2021***. Joint site inspection was also carried out by the ER, IEC representative and the Contractor on ***3rd, 10th, 17th and 24th February 2021***. No non-compliance was recorded during the site inspections.

ENVIRONMENTAL COMPLAINT

ES07 No environmental complaint was recorded in this Reporting Period for the Project. The statistics of environmental complaint are summarized in the following table.

Table ES-3 Summary of Environmental Complaint Records in the Reporting Period

Reporting Period	Environmental Complaint Statistics			Related with the Works Contract
	Frequency	Cumulative	Complaint Nature	
1 – 28 February 2021	0	0	NA	NA

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES08 No environmental summons or prosecutions was received in this Reporting Period for the Project. The statistics of environmental summons or prosecutions are summarized in the following tables.

Table ES-4 Summary of Environmental Summons Records in the Reporting Period

Reporting Period	Environmental Summons Statistics			Related with the Works Contract
	Frequency	Cumulative	Complaint Nature	
1 – 28 February 2021	0	0	NA	NA

Table ES-5 Summary of Environmental Prosecutions Records in the Reporting Period

Reporting Period	Environmental Prosecution Statistics			Related with the Works Contract
	Frequency	Cumulative	Complaint Nature	
1 – 28 February 2021	0	0	NA	NA

REPORTING CHANGE

ES09 No reporting change was made in this Reporting Period.

FUTURE KEY ISSUES

ES10 Construction noise would be a key environmental issue during construction work of the Project. Noise mitigation measures such as using quiet plants should be implemented in accordance with the EM&A requirement.

ES11 In addition, all effluent discharge from the construction site shall fulfill the discharge licence stipulation.

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1. INTRODUCTION

1.1 PROJECT BACKGROUND

1.1.1 Environmental Protection Department (hereinafter referred as "EPD") is the Project Proponent for the Project *"Organic Waste Treatment Facilities Phase 2"* (hereinafter referred as "the Project"). The Project is a Designated Project to be implemented under Environmental Permit No. EP-460/2013 (hereinafter referred as "the EP"). The major construction work of the Project included:

(i) Demolition and removal of the existing above ground structures of the Sha Ling Livestock Waste Composting Plant (SLCP);
(ii) Construction of superstructure for an administration building and enclosed waste reception area;
(iii) Installation of treatment facilities including waste pre-treatment equipment, digesters, biogas holding tanks, composting, wastewater treatment, air treatment systems; and
(iv) Facilities for biogas processing, utilization and transmission;

1.1.2 AJA Joint Venture (hereinafter referred as "AJAJV") has been awarded the *EPD Contract No. EP/SP/86/15 "Organic Waste Treatment Facilities Phase 2"*. In accordance with the Works Contract requirements, AJAJV shall take over the responsibility of the EP. Based on the requirement, Further Environmental Permit application was submitted by AJAJV to EPD on 10 September 2019 and granted on 2 October 2019. A variation of Further Environmental Permit was granted on 14 September 2020. The Further Environmental Permit is named as FEP-01/460/2013/A (hereinafter referred as "the FEP").

1.1.3 According to the approved Environmental Monitoring and Audit Manual (hereinafter referred as "the EM&A Manual"), AJAJV employed Action-United Environmental Services & Consulting (hereinafter referred as "AUES") as Environmental Team (hereinafter referred as "ET") to implement monitoring programme and as well as the associated duties.

1.1.4 According to the EM&A Manual, construction noise was identified as the only key environmental issue during the construction phase of the Project and it is required to carry out construction noise monitoring throughout the construction phase. Furthermore, baseline noise monitoring as part of the EM&A programmes shall be conducted prior to the commencement of the construction works under the Project. Thus, baseline noise monitoring was conducted by ET from ***25 September 2019*** to ***8 October 2019.*** The baseline monitoring report compiled by the ET was verified by Independent Environmental Checker (hereinafter the "IEC') and was submitted to EPD on 19th November 2019 for endorsement.

1.1.5 The Project works was commenced on ***3rd December 2019***. This is the **15th** EM&A monthly report presenting the construction noise monitoring results and site inspection findings from **1st to 28th February 2021** (hereinafter the "Reporting Period").

1.2 REPORT STRUCTURE

1.2.1 The Monthly Environmental Monitoring and Audit (EM&A) Report is structured into the following sections:-

Section 1	*Introduction*
Section 2	*Project Organization and Construction Progress*
Section 3	*Summary of Impact Monitoring Requirements*
Section 4	*Construction Noise Monitoring*
Section 5	*Waste Management*
Section 6	*Site Inspections*
Section 7	*Environmental Complaints and Non-Compliance*
Section 8	*Implementation Status of Mitigation Measures*
Section 9	*Conclusions and Recommendations*

2. PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1.1 Organization structure and contact details of relevant parties with respect to on-site environmental management are shown in ***Appendix B***. The responsibilities of respective parties are:

Engineer or Engineers Representative (ER)

2.1.2 The ER is responsible for overseeing the construction works and for ensuring that the works are undertaken by the Contractor in accordance with the specification and contract requirements. The duties and responsibilities of the ER with respect to EM&A include:

- to monitor the Contractor's compliance with Contract Specifications, including the effective implementation and operation of the environmental mitigation measures;
- to employ an Independent Environmental Checker (IEC) to audit the results of the EM&A works carried out by the Environmental Team (ET);
- to monitor Contractors', ET's and IEC's compliance with the requirements in the Environmental Permit (EP) and EM&A Manual;
- to facilitate ET's implementation of the EM&A programme;
- participate in joint site inspection by the ET and IEC;
- to oversee the implementation of the agreed Event / Action Plan in the event of any exceedance; and,
- to adhere to the procedures for carrying out complaint investigation.

The Contractor

2.1.3 The Contractor should report to the ER. The duties and responsibilities of the Contractor include:

- to comply with the relevant contract conditions and specifications on environmental protection;
- to employ an ET to undertake monitoring, laboratory analysis and reporting of EM&A;
- to facilitate ET's monitoring and site inspection activities;
- to participate in the site inspections undertaken by the ET and IEC, and undertake any corrective actions;
- to provide information / advice to the ET regarding works programme and activities which may contribute to the generation of adverse environmental impacts;
- to submit proposals on mitigation measures in case of exceedance of Action and Limit levels in accordance with the Event / Action Plans;
- to implement measures to reduce impact where Action and Limit levels are exceeded; and,
- to adhere to the procedures for carrying out complaint investigation.

Environmental Team (ET)

2.1.4 The ET will be led and managed by the ET Leader. ET Leader should have relevant professional qualifications in environmental control and possess at least 7 years of experience in EM&A. Suitably qualified staff should be included in the ET, and resources for the implementation of the EM&A programme should be allocated in the time under the Contract, to enable fulfilment of the Project's EM&A requirements as specified in the EM&A Manual during construction of the Project. The ET should report to Project Proponent and the duties should include:

- to monitor and audit various environmental parameters as required in this EM&A Manual;
- to analyse the environmental monitoring and audit data, review the success of EM&A programme and the adequacy of mitigation measures implemented, confirm the validity of the EIA predictions and identify any adverse environmental impacts arising;
- to monitor compliance with conditions in the EP, environmental protection, pollution prevention and control regulations and contract specifications;
- to audit environmental conditions on site;
- to report on the environmental monitoring and audit results to EPD, the ER, the IEC and Contractor or their delegated representatives;

- to recommend suitable mitigation measures to the Contractor in the case of exceedance of Action and Limit levels in accordance with the Event and Action Plans;
- to liaise with the IEC on all environmental performance matters, and ensure timely submission of all relevant EM&A pro forma for IEC's approval;
- to provide advice to the Contractor on environmental improvement, awareness and enhancement matters, etc on site;
- to adhere to the procedures for carrying out complaint investigation;
- to prepare reports on the environmental monitoring data and the site environmental conditions;
- to submit the EM&A report to Director of Environmental Protection (DEP) timely;
- to review proposals of mitigation measures from the Contractor in case of exceedance of Action and Limit levels, in accordance with Event and Action Plan; and,
- to carry out site inspection to investigate and audit the Contractor's site practice, equipment and work methodologies with respect to pollution control and mitigation measures.

Independent Environmental Checker (IEC)

2.1.5 The IEC is empowered to audit the environmental performance of construction, but is independent from the management of construction works. As such, the IEC should not be in any way an associated body of the Contractor or the ET for the Project. The IEC should be a person who has relevant professional qualifications in environmental control and at least 7 years' experience in EM&A and environmental management. The duties and responsibilities of the IEC are:

- to provide proactive advice to the ER on EM&A matters related to the project;
- to review and verify the monitoring data and all submissions in connection with the EP and EM&A Manual submitted by the ET;
- to arrange and conduct regular, at least monthly site inspections of the works during the construction phase, and to carry out ad hoc inspections if significant environmental problems are identified;
- to check compliance with the agreed Event / Action Plan in the event of any exceedance;
- to check compliance with the procedures for carrying out complaint investigation;
- to check the effectiveness of corrective measures;
- to feedback audit results to the ET by signing off relevant EM&A pro forma;
- to check that mitigation measures are effectively implemented;
- to report the works conducted, and the findings, recommendations and improvements of the site inspections, after reviewing ET's and Contractor's works, to the ER on a monthly basis;
- to verify the investigation result of the environmental complaint cases and the effectiveness of corrective measures;
- to verify EM&A report that has been certified by ET leader; and,
- to audit EIA recommendations and requirements against the status of implementation of environmental mitigation measures on site.

2.2 CONSTRUCTION PROGRESS

2.2.1 Works program of the Project is enclosed in ***Appendix D***; and the major construction activities undertaken in the Reporting Period is presented as below:

- Granulation Building Bay 6 construction
- AD tank Lining Installation
- Admin Building Bay 1 construction

2.3 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.3.1 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contract 1 are presented in ***Tables 2-1***.

Table 2-1 Status of Environmental Licenses and Permits of the Project

Item	Description	License/Permit Status		
		Permit no./	Valid Period	Status

		account no./ Ref. no.	From	To	
1	Notification pursuant to Air pollution Control (Construction Dust) Regulation	Application No. 448863	--	--	Notified on 9 September 2019
2	Chemical Waste Producer Registration	Ref. no.: 5211-641-A2957-01	--	--	Issued on 9 Oct 2019
3	Water Pollution Control Ordinance - Discharge License	Application No. 448913	--	--	Application made on 10 Sep 2019
4	Waste Disposal Regulation - Billing Account for Disposal of Construction Waste	Account no. 7035307	2 Oct 2019	NA	Valid
5	Further Environmental Permit	FEP-01/460/2013/A	14 Sep 2020	NA	Valid
6	Construction Noise Permit	GW-RN0923-20	31 Dec 2020	26 Jun 2021	Valid
7	Water Discharge Licence	WT00035196-2019	20 Mar 2020	31 Mar 2025	Valid

3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

3.1.1 According to Environmental Monitoring and Audit requirements set out in the Approved EM&A manual, construction noise was identified as the only key environmental issues during the construction phase of the Project.

3.2 MONITORING PARAMETERS

3.2.1 The construction noise monitoring requirement stated in the approved EM&A Manual is summarized in ***Table 3-1.***

Table 3-1 Summary of EM&A Requirements

Environmental Issue	Parameters
Noise	• Leq(30min) in normal working days (Monday to Saturday) 07:00-19:00 except public holiday • Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.

3.3 MONITORING LOCATIONS

3.3.1 According to the EM&A Manual Section 4.2.3, four (4) designated noise sensitive receivers (NSR) were recommended as construction noise monitoring stations. Site visit was conducted by the ET on 23th September 2019 to review and study sensitive receivers at surrounding and adjacent to the Project. Due to the presence of steel wire fencing and village dogs, two of the designated monitoring locations N2 and N3 were not accessible. Hence, two alternative locations N2a and N3a are proposed as a temporary noise monitoring locations to carry out impact noise monitoring until the alternative locations are approved by EPD. Details of the locations for construction noise monitoring in the Reporting Period is listed in ***Table 3-2*** and showed in ***Appendix C.***

Table 3-2 Impact Monitoring Stations – Construction Noise

ID	Location
N1	Village House No. 308, Sha Ling
N2a	Village House No. 318, Sha Ling
N3a	Village House No. 261, Sha Ling
N4	Village House in Sha Ling

Remark: N2a and N3a are temporary noise monitoring location. If there is any new alternative location(s) available in future, the impact monitoring will be carried out at the new alterative location(s) upon EPD agreement.

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 Noise monitoring shall be conducted at the all available designated monitoring stations or alternative locations. The monitoring frequency shall depend on scale of the construction activities. According to EM&A manual, regular noise monitoring should be carried out once a week when noise generating activities are underway and the monitoring requirement is presented below:

- one set of $Leq_{(30min)}$ measurements between 07:00 and 19:00 hours on normal weekdays

3.5 MONITORING EQUIPMENT

3.5.1 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms^{-1}.

3.5.2 Equipment used for construction noise monitoring is listed in ***Table 3-3***.

Table 3-3 Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	B&K Type 2238 and Rion NL-52
Calibrator	B&K Type 4231 and Rion NC-74
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908 Wind Speed Indicator

3.6 MONITORING METHODOLOGY

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

3.6.2 All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). $Leq_{(30\ min)}$ in six consecutive $Leq_{(5\ min)}$ measurements will be used as the monitoring parameter for the time period between 07:00-19:00 hours on weekdays throughout the construction period.

3.6.3 The sound level meter will be mounted on a tripod at a height of 1.2 m and placed at the assessment point and oriented such that the microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield will be fitted for all measurements. Where a measurement is to be carried out at a building, the assessment point would normally be at a position 1 m from the exterior of the building façade. Where a measurement is to be made for noise being received at a place other than a building, the assessment point would be at a position 1.2 m above the ground in a free-field situation, i.e. at least 3.5 m away from reflective surfaces such as adjacent buildings or walls.

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

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

3.6.6 The sound level meter and calibrator are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at yearly basis. Calibration certificates of all the noise monitoring equipment used for the impact monitoring program will be provided in each EM&A Monthly Report.

3.7 ACTION/LIMIT (A/L) LEVELS

3.7.1 Action and Limit levels for construction noise as stipulated in the approved Environmental Monitoring and Audit Manual are listed in ***Tables 3-4***.

Table 3-4 Action and Limit Levels for Construction Noise

Monitoring Location	Action Level	Limit Level in dB(A)
	Time Period: 0700-1900 hours on normal weekdays	
N1	When one or more documented complaints are received	***75*** dB(A)
N2a		
N3a		
N4		

Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority should be followed.

3.7.2 Should non-compliance of the environmental quality criteria occur, remedial actions will be triggered according to the Event and Action Plan presented in ***Appendix E.***

3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL

3.8.1 All monitoring data will be handled by the ET's in-house data recording and management system. The monitoring data recorded in the equipment will be downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data will be input into a computerized database properly maintained by the ET.

4. CONSTRUCTION NOISE MONITORING

4.1 GENERAL

4.1.1 In the Reporting Period, construction noise monitoring was performed at monitoring location N1, N2a, N3a and N4. No construction work was carried out during restricted hours in the reporting period, therefore no additional noise monitoring during restricted hours was performed. The noise monitoring schedule is presented in ***Appendix F***.

4.1.2 Valid calibration certificates of monitoring equipment are shown in ***Appendix G*** and the construction noise monitoring results are summarized in the following sub-sections.

4.2 RESULTS OF NOISE MONITORING

4.2.1 ***16*** sessions of daytime construction noise monitoring were performed at the agreed monitoring locations in the reporting period. Since the noise measurement was made under free field condition, a façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines. The daytime noise monitoring results are summarized in ***Table 4-1 to Table 4-4.*** The detailed noise monitoring data are presented in ***Appendix H*** and the relevant graphical plots are shown in ***Appendix I***.

Table 4-1 Daytime Construction Noise Impact Monitoring Results at N1

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A))
			$L_{eq30min}$
1-Feb-21	9:36	10:06	58.1
11-Feb-21	13:48	14:18	54.6
17-Feb-21	14:17	14:47	60.2
24-Feb-21	11:17	11:47	60.2

Table 4-2 Daytime Construction Noise Impact Monitoring Results at N2a

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A))
			$L_{eq30min}$
1-Feb-21	10:37	11:07	56.1
11-Feb-21	13:11	13:41	52.6
17-Feb-21	13:40	14:10	45.9
24-Feb-21	10:37	11:07	53.7

Table 4-3 Daytime Construction Noise Impact Monitoring Results at N3a

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A))
			$L_{eq30min}$
1-Feb-21	13:45	14:15	61.5
11-Feb-21	15:39	16:09	68.5
17-Feb-21	16:08	16:38	50.7
24-Feb-21	9:17	9:47	75.0

Table 4-4 Daytime Construction Noise Impact Monitoring Results at N4

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A))
			$L_{eq30min}$
1-Feb-21	14:39	15:09	64.2
11-Feb-21	9:26	9:56	66.2
17-Feb-21	9:37	10:07	62.2
24-Feb-21	9:58	10:28	71.5

4.2.2 As shown in ***Table 4-1 to 4-4***, all the measured results were below 75dB(A) of the acceptance criteria. No adverse weather condition which may affect the monitoring result was encountered during the course of noise monitoring in the reporting period. Furthermore, no documented complaint is received, indicating no exceedance of Action Level.

5. WASTE MANAGEMENT

5.1 GENERAL WASTE MANAGEMENT

5.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

5.2 RECORDS OF WASTE QUANTITIES

5.2.1 All types of waste arising from the construction work are classified into the following:

- Construction & Demolition (C&D) Material;
- Chemical Waste;
- General Refuse; and
- Excavated Soil.

5.2.2 The quantities of waste for disposal in this Reporting Period are summarized in ***Tables 5-1*** and ***5-2***.

Table 5-1 Summary of Quantities of Inert C&D Materials

Type of Waste	Quantity	Disposal Location
C&D Materials (Inert) ('000m^3)	0.014	-
Reused in this Contract (Inert) ('000m^3)	0	-
Reused in other Projects (Inert) ('000m^3)	0	-
Disposal as Public Fill (Inert) ('000m^3)	0.014	TM38

Table 5-2 Summary of Quantities of C&D Wastes

Type of Waste	Quantity	Disposal Location
Recycled Metal ('000kg)	20.4	Collected by metal recycling company
Recycled Paper / Cardboard Packing ('000kg)	0.013	Collected by paper recycling company
Recycled Plastic ('000kg)	0.651	Collected by plastic recycling company
Chemical Wastes ('000kg)	0	-
General Refuses ('000m^3)	0.007	NENT

6. SITE INSPECTION

6.1 REQUIREMENTS

6.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulated by ET Leader. Weekly environmental site inspections should be carried out to confirm the environmental performance.

6.2 FINDINGS / DEFICIENCIES DURING THE REPORTING PERIOD

6.2.1 In the Reporting Period, site inspection for the Project to evaluate site environmental performance was carried out by the ET on **3, 10, 19 and 24 February 2021**. Joint site inspection was also carried out by the ER, IEC representative and the Contractor on **3, 10, 17 and 24 February 2021**. No non-compliance was noted.

6.2.2 The findings / deficiencies of the Project observed during the weekly site inspection are listed in ***Table 6-1***.

Table 6-1 Site Observations during the Weekly Inspection

Date	Findings / Deficiencies	Follow-Up Status
3 February 2021	• The Contractor was reminded to follow TPRP.	Reminder only.
10 February 2021	• The Contractor was reminded to remove any stagnant water accumulated on site after rainy days.	Reminder only.
19 February 2021	• The Contractor was reminded to follow the TPRP.	Reminder only.
24 February 2021	• The Contractor was reminded to increase the frequency of water spraying during dry seasons. (General)	Reminder only.

7. ENVIRONMENTAL COMPLAINT, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

7.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

7.1.1 In the Reporting Period, no environmental complaint, summons and prosecution under the EM&A Programme was lodged for the project. The statistical summary table of environmental complaint is presented in ***Tables 7-1, 7-2*** and ***7-3***.

Table 7-1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
1 – 28 February 2021	0	0	NA

Table 7-2 Statistical Summary of Notification of Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Summons Nature
1 – 28 February 2021	0	0	NA

Table 7-3 Statistical Summary of Successful Prosecutions

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Prosecution Nature
1 – 28 February 2021	0	0	NA

8. ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

8.1 GENERAL REQUIREMENTS

8.1.1 The environmental mitigation measures that recommended in the Environmental Mitigation Implementation Schedule (EMIS) in the approved EM&A Manual covered the issues of dust, noise, water and waste and they are summarized presented in ***Appendix K.***

8.1.2 AJAJV had been implementing the required environmental mitigation measures according to the Environmental Monitoring and Audit Manual subject to the site condition. Environmental mitigation measures generally implemented by AJAJV in this Reporting Period are summarized in ***Table 8-1***.

Table 8-1 Environmental Mitigation Measures

Issues	Environmental Mitigation Measures
Water Quality	• Any wastewater generated should be appropriately treated by treatment facilities; • Drainage channels were provided to convey run-off into the treatment facilities; and • Drainage systems were regularly and adequately maintained.
Air Quality	• Regular watering to reduce dust emissions from all exposed site surface, particularly during dry weather; • Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers; • Cover all excavated or stockpile of dusty material by impervious sheeting or sprayed with water to maintain the entire surface wet; • Public roads around the site entrance/exit had been kept clean and free from dust; and • Tarpaulin covering of any dusty materials on a vehicle leaving the site.
Noise	• Good site practices to limit noise emissions at the sources; • Use of quite plant and working methods; • Use of site hoarding or other mass materials as noise barrier to screen noise at ground level of NSRs; • Use of shrouds/temporary noise barriers to screen noise from relatively static PMEs; • Alternative use of plant items within one worksite, where practicable.
Waste Management	• Any excavated material should be reused on site as far as possible to minimize off-site disposal. Scrap metals or abandoned equipment should be recycled if possible; • Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner; • Trip ticket system for the disposal of C&D materials to any designed public filling facility and/or landfill was implemented; and • Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.
General	• The site was generally kept tidy and clean.

8.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

8.2.1 Tentative construction activities to be undertaken in **March 2021** should be included:-

- GB Bay 3-5 construction
- AD tank 1st pour tank wall
- RB bunker tank construction
- AB Bay 1 and Bay 2 construction

9. CONCLUSIONS AND RECOMMENDATIONS

9.1 CONCLUSIONS

9.1.1 This is the monthly EM&A report presenting the monitoring results and inspection findings for the reporting period from **1 to 28 February 2021**.

9.1.2 In the Reporting Period, no daytime construction noise monitoring results that triggered the Limit Level were recorded and no noise complaint (which is an Action Level exceedance) was received by the Project Consultant, EPD and the Contractors.

9.1.3 In this Reporting Period, site inspection to evaluate the site environmental performance for the Project was carried out by the ET on **3, 10, 19 and 24 February 2021**. Joint site inspection was also carried out by the ER, IEC representative and the Contractor on **3, 10, 17 and 24 February 2021.** No non-compliance was noted during the site inspection.

9.1.4 No documented complaint, notification of summons or successful prosecution was received under the Project.

9.2 RECOMMENDATIONS

9.2.1 Construction noise should be a key environmental impact during the works. The noise mitigation measures such as use of quiet plants or temporary noise barrier installation at the construction noise predominated area should be implemented in accordance with the EM&A requirement.

9.2.2 In addition, all effluent discharge shall be ensured to fulfill the discharge licence stipulation.

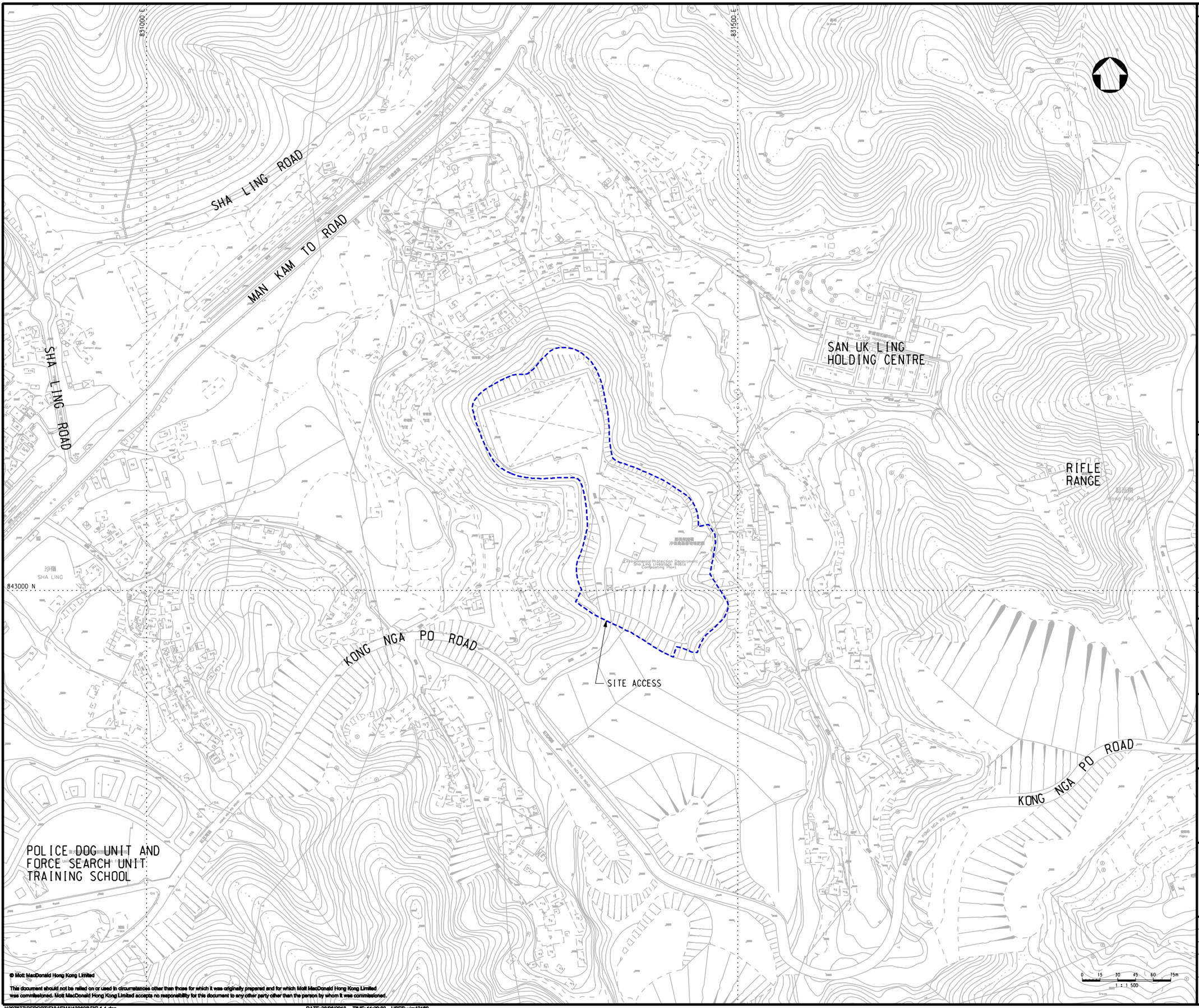
9.2.3 All the trees proposed to be retained in-situ should be properly preserved and protected during the construction works. Tree Preservation and Protection Works for these retained trees shall follow Section 3 and 26 of CEDD's General Specification for Engineering Works and Section 26 of Contract Specification Part B.

9.2.4 Trees to be felled shall be in accordance with the Tree Preservation and Removal Proposal (TPRP) to be approved by relevant approval authority.

9.2.5 Contract Specification Part B Section 1.78 "Waste Management" and DEVB's "Guidelines on Yard Waste Reduction and Treatment" should be referred before tree removal and plan the necessary arrangement.

Appendix A

Layout plan of the Project



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Notes

Key to symbols

PROPOSED SITE AREA

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	JUN 13	MING	GENERAL REVISION	MR	AFK
P1	DEC 12	MING	FIRST ISSUE	MR	AFK

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Client

Environmental Protection Department
The Government of the Hong Kong
Special Administrative Region

Project

AGREEMENT NO. CE34/2011(EP)
DEVELOPMENT OF ORGANIC WASTE
TREATMENT FACILITIES PHASE 2 -
FEASIBILITY STUDY

Title

LOCATION OF THE PROJECT

Designed	HY		Eng check	AT	
Drawn	MING		Coordination	AT	
Dwg check	HY		Approved	AFK	
Scale at A1 1:1500		Status PRE		Rev P2	

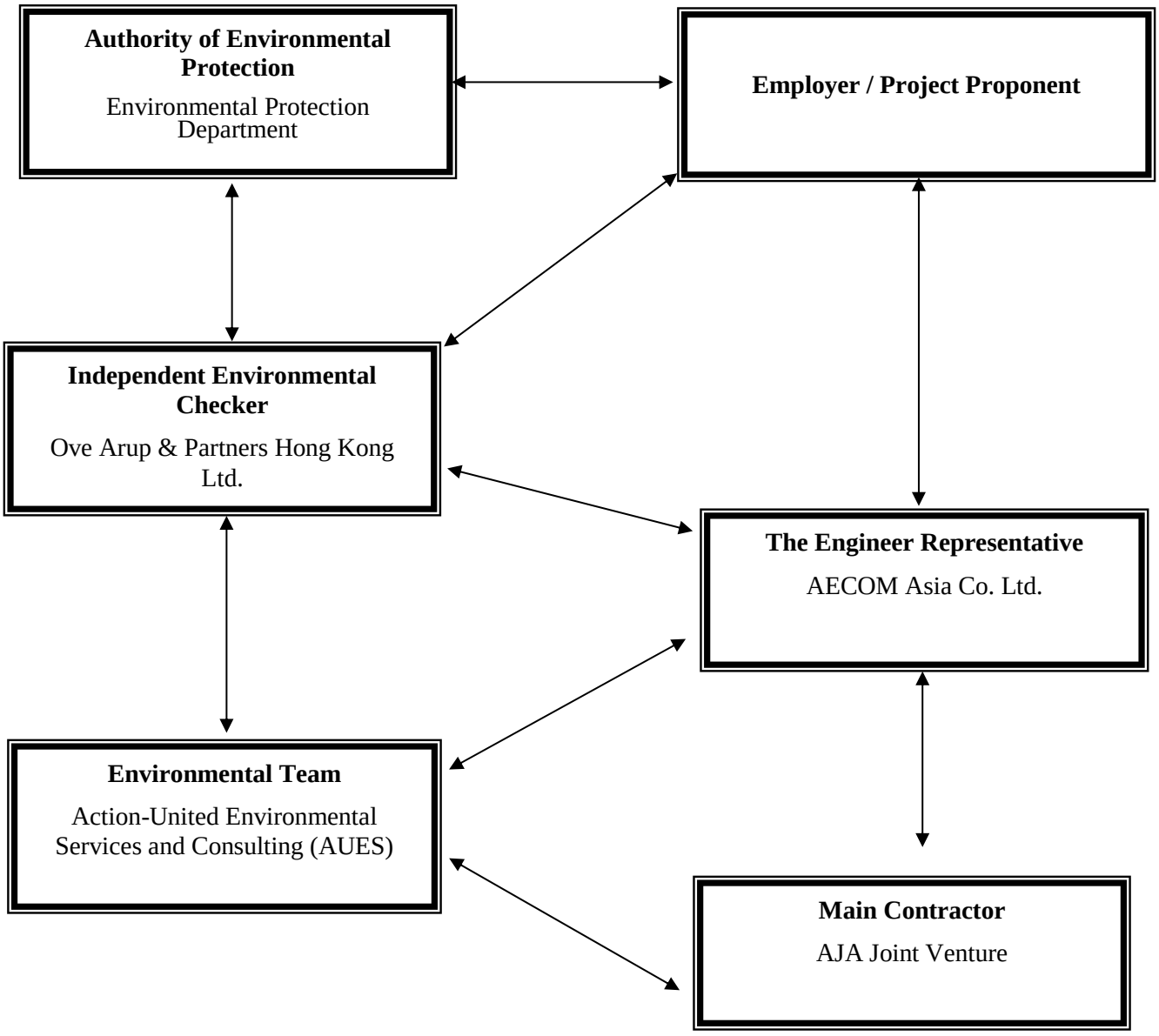
Drawing Number

FIGURE 1.1

Appendix B

Organization Chart

Project Organization Chart



Contact Details of Key Personnel for the Project

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
EPD	Project Proponent	Sunny Chiu	3151 7209	3528 0492
AECOM	Resident Engineer	Terrence Lam	5579 5239	3010 8507
AECOM	Resident Engineer	TY Lou	5620 4008	3010 8507
ARUP	Independent Environmental Checker	Martin Yu	2268 3206	2268 3380
ARUP	Engineer (Safety, Environment and Planning)	Kitty Lee WK	2908 4604	2268 3955
AJAJV	Project Manager	Victor Wu	2862 5013	2862 5013
AJAJV	Construction Manager	Johnny Leung	9494 0581	9494 0581
AJAJV	Project Environmental Manager	Gabriel Wong	6114 9590	6114 9590
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Martin Li	2959 6059	2959 6079

Legend:

EPD (Employer) – Environmental Protection Department

AECOM (Engineer Representative) – AECOM Asia Co. Ltd.

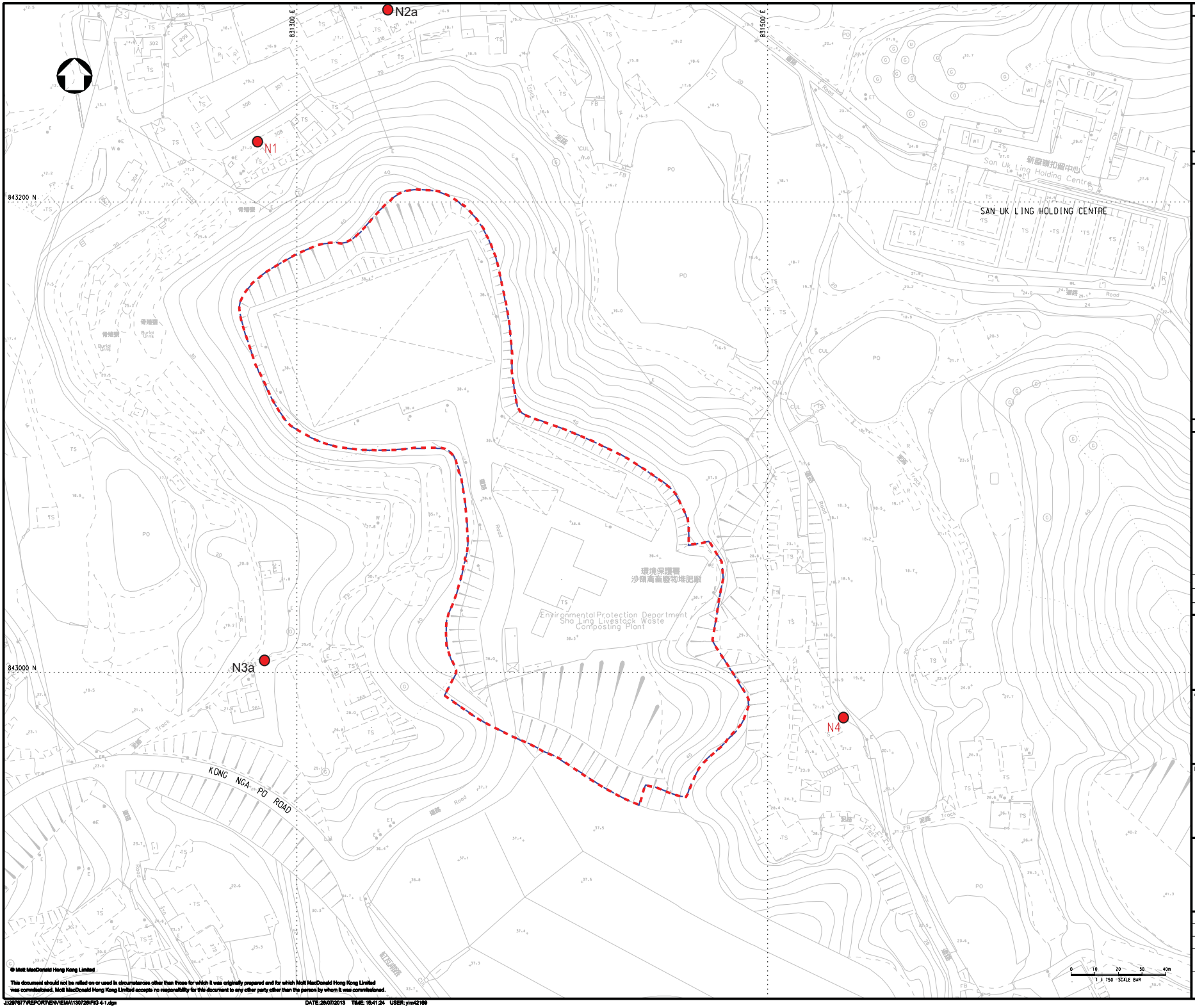
AJAJV (Main Contractor) – AJA Joint Venture

ARUP (IEC) – Ove Arup & Partners Hong Kong Ltd.

AUES (ET) – Action-United Environmental Services & Consulting

Appendix C

Monitoring Locations for Impact Monitoring



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J:\297677\REPORT\ENV\EIA\130728\Fig 4-1.dgn DATE: 26/07/2013 TIME: 18:41:24 USER: yim42169

Notes

Key to symbols

- Construction Site Boundary
- Noise Monitoring Station

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	JUL 13	MING	GENERAL REVISION	AM	AFK
P1	DEC 12	MING	FIRST ISSUE	SC	AFK

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Client

Environmental Protection Department
The Government of the Hong Kong
Special Administrative Region

Project

AGREEMENT NO. CE34/2011(EP)
DEVELOPMENT OF ORGANIC WASTE TREATMENT FACILITIES PHASE 2 - FEASIBILITY STUDY

Title

PROPOSED LOCATIONS OF CONSTRUCTION NOISE MONITORING STATIONS

Designed	SC		Eng check	AT	
Drawn	MING		Coordination	AT	
Dwg check	EY		Approved	AFK	
Scale at A1 1:750		Status PRE		Rev P2	

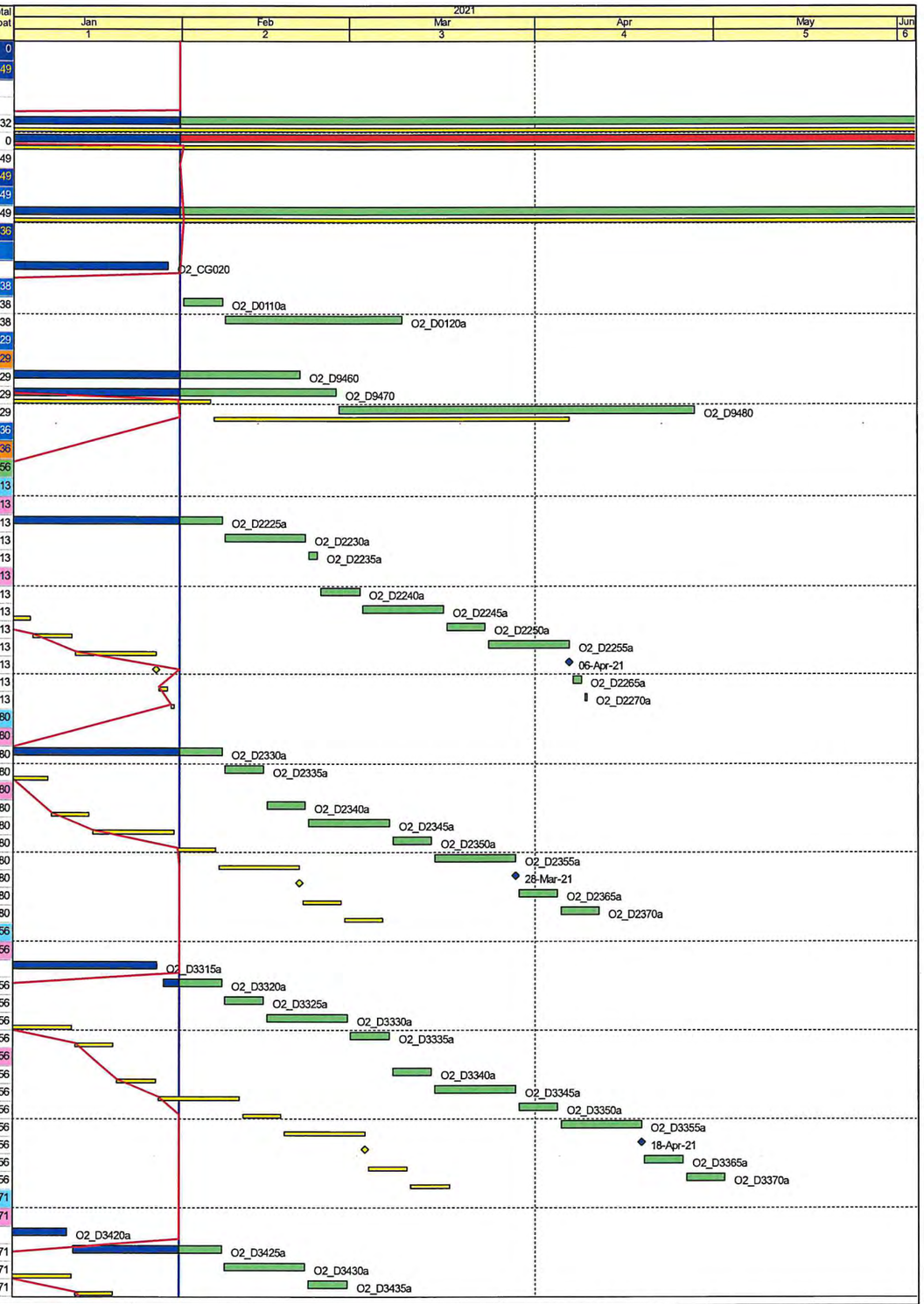
Drawing Number

FIGURE 4.1

Appendix D

3-Month Rolling Construction Programme

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
Contract No. EP/SP/86/15 - ORGANIC RESOURCE RECOVERY CENTRE, PHASE 2		1474	12-Aug-19	06-Jul-23	12-Aug-19 A	24-Aug-23	0
KEY DATES (LOA, COMMENCEMENT, COMPLETION)		1474	12-Aug-19	06-Jul-23	12-Aug-19 A	24-Aug-23	-49
O2_G1000	LETTER OF ACCEPTANCE (FOT, Appdx A)	0	12-Aug-19		12-Aug-19 A		
O2_G1020	PROJECT START - COMMENCEMENT OF WORKS (28d from LOA, FOT, Appdx A)	0	05-Sep-19		05-Sep-19 A		
O2_G1040	Original Contract Construction Duration - (1004d, FOT, Appdx A)	1004	05-Sep-19	04-Jun-22	05-Sep-19 A	04-Jun-23	32
O2_G1040a	Extended Contract Duration	1401	05-Sep-19	06-Jul-23	05-Sep-19 A	06-Jul-23	0
O2_G1060	PROJECT COMPLETION	0		06-Jul-23		24-Aug-23*	-49
GENERAL SUBMISSIONS (CONTRACT REQUIREMENTS)		800	05-Nov-19	25-May-22	05-Nov-19 A	25-May-22	349
ENVIRONMENTAL MONITORING (Clause 1.9, Specs Part A)		800	05-Nov-19	25-May-22	05-Nov-19 A	25-May-22	349
O2_G3160	Environmental Impact Monitoring	800	05-Nov-19	25-May-22	05-Nov-19 A	25-May-22	349
DESIGN		461	02-Apr-20	21-Aug-21	02-Apr-20 A	22-Jul-21	536
GRANULATION PROPOSAL		171	01-Jul-20	18-Dec-20	01-Jul-20 A	29-Jan-21 A	
O2_CG020	Contractor Change Proposal - Composting to Granulation - Stage 1 Approval	171	01-Jul-20	18-Dec-20	01-Jul-20 A	29-Jan-21 A	
DESIGN WORKSHOP		37	15-Jul-20	28-Jul-20	01-Feb-21	09-Mar-21	38
O2_D0110a	Hazard and Operability Review (HAZOP)	7	15-Jul-20	21-Jul-20	01-Feb-21*	07-Feb-21	38
O2_D0120a	Construction Hazard Assessment and Identification Review (CHAIR)	30	22-Jul-20	28-Jul-20	08-Feb-21	09-Mar-21	38
TEMPORARY WORKS DESIGN		171	08-Nov-20	06-Apr-21	08-Nov-20 A	27-Apr-21	229
E6 - FOOTBRIDGE		171	08-Nov-20	06-Apr-21	08-Nov-20 A	27-Apr-21	229
O2_D9460	Footbridge: Prepare ELS Submission	30	08-Nov-20	07-Dec-20	08-Nov-20 A	20-Feb-21	229
O2_D9470	Footbridge: IC Approval on ELS	60	08-Dec-20	05-Feb-21	04-Dec-20 A	26-Feb-21	229
O2_D9480	Footbridge: ER Approval on ELS	60	06-Feb-21	06-Apr-21	27-Feb-21	27-Apr-21	229
PERMANENT WORKS DESIGN		419	02-Apr-20	21-Aug-21	02-Apr-20 A	22-Jul-21	536
C. DETAILED DESIGN SUBMISSION		419	02-Apr-20	21-Aug-21	02-Apr-20 A	22-Jul-21	536
C1 - ARCHITECTURAL DESIGN REPORT & DRAWING SUBMISSION		206	09-Oct-20	17-Mar-21	18-Jul-20 A	02-May-21	456
C1.1 - RECEPTION BUILDING - ARCHITECTURAL WORKS		183	09-Oct-20	30-Jan-21	31-Dec-20 A	09-Apr-21	213
IC CHECKING & CERTIFICATION		138	09-Oct-20	16-Dec-20	31-Dec-20 A	23-Feb-21	213
O2_D2225a	Submit further information for the re-submitted ADR for Reception Building to IC (Clause 5.4.3.9, Specs Part A) *	53	09-Oct-20	30-Nov-20	31-Dec-20 A	07-Feb-21	213
O2_D2230a	IC Certify ADR for Reception Building (Clause 5.4.3.9, Specs Part A) *	14	01-Dec-20	14-Dec-20	08-Feb-21	21-Feb-21	213
O2_D2235a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A) *	2	15-Dec-20	16-Dec-20	22-Feb-21	23-Feb-21	213
EMPLOYER's CONSENT		45	17-Dec-20	30-Jan-21	24-Feb-21	09-Apr-21	213
O2_D2240a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	17-Dec-20	23-Dec-20	24-Feb-21	02-Mar-21	213
O2_D2245a	ER Comment on the submitted ADR for Reception Building (Clause 5.4.3.17.c, Specs Part A)	14	24-Dec-20	06-Jan-21	03-Mar-21	16-Mar-21	213
O2_D2250a	Submit further information for the submitted ADR for Reception Building to ER (Clause 5.4.3.19, Specs Part A)	7	07-Jan-21	13-Jan-21	17-Mar-21	23-Mar-21	213
O2_D2255a	ER Comment on the re-submitted ADR for Reception Building (Clause 5.4.3.17.a, Specs Part A	14	14-Jan-21	27-Jan-21	24-Mar-21	06-Apr-21	213
O2_D2260a	ER Consented ADR for Reception Building (Clause 5.4.3.17.a, Specs Part A)	0		27-Jan-21		06-Apr-21	213
O2_D2265a	Submit Two Complete Sets ADR for Reception Building to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	2	28-Jan-21	29-Jan-21	07-Apr-21	08-Apr-21	213
O2_D2270a	Design Registered - ADR for Reception Building	1	30-Jan-21	30-Jan-21	09-Apr-21	09-Apr-21	213
C1.2 - GRANULATION BUILDING - ARCHITECTURAL WORKS		80	20-Dec-20	06-Mar-21	08-Dec-20 A	11-Apr-21	180
IC CHECKING & CERTIFICATION		24	20-Dec-20	09-Jan-21	08-Dec-20 A	14-Feb-21	180
O2_D2330a	IC Certify ADR for Granulation Building (Clause 5.4.3.9, Specs Part A)	14	20-Dec-20	02-Jan-21	08-Dec-20 A	07-Feb-21	180
O2_D2335a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	03-Jan-21	09-Jan-21	08-Feb-21	14-Feb-21	180
EMPLOYER's CONSENT		56	10-Jan-21	06-Mar-21	15-Feb-21	11-Apr-21	180
O2_D2340a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	10-Jan-21	16-Jan-21	15-Feb-21	21-Feb-21	180
O2_D2345a	ER Comment on the submitted ADR for Granulation Building (Clause 5.4.3.17.c, Specs Part A)	14	17-Jan-21	30-Jan-21	22-Feb-21	07-Mar-21	180
O2_D2350a	Submit further information for the submitted ADR for Granulation Building to ER (Clause 5.4.3.19, Specs Part A)	7	31-Jan-21	06-Feb-21	08-Mar-21	14-Mar-21	180
O2_D2355a	ER Comment on the re-submitted ADR for Granulation Building (Clause 5.4.3.17.a, Specs Part A)	14	07-Feb-21	20-Feb-21	15-Mar-21	28-Mar-21	180
O2_D2360a	ER Consented ADR for Granulation Building (Clause 5.4.3.17.a, Specs Part A)	0		20-Feb-21		28-Mar-21	180
O2_D2365a	Submit Two Complete Sets ADR for Granulation Building to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	21-Feb-21	27-Feb-21	29-Mar-21	04-Apr-21	180
O2_D2370a	Design Registered - ADR for Granulation Building	7	28-Feb-21	06-Mar-21	05-Apr-21	11-Apr-21	180
C1.3 - FOOTBRIDGE/WALKWAY - ARCHITECTURAL WORKS		151	03-Dec-20	17-Mar-21	18-Jul-20 A	02-May-21	456
IC CHECKING & CERTIFICATION		95	03-Dec-20	20-Jan-21	18-Jul-20 A	07-Mar-21	456
O2_D3315a	Submit further information for the submitted ADR for Footbridge Building to IC (Clause 5.4.3.9, Specs Part A)	7	03-Dec-20	09-Dec-20	18-Jul-20 A	28-Jan-21 A	
O2_D3320a	IC Comment on the re-submitted ADR for Footbridge Building (Clause 5.4.3.9, Specs Part A)	14	10-Dec-20	23-Dec-20	29-Jan-21 A	07-Feb-21	456
O2_D3325a	Submit further information for the re-submitted ADR for Footbridge Building to IC (Clause 5.4.3.9, Specs Part A)	7	24-Dec-20	30-Dec-20	08-Feb-21	14-Feb-21	456
O2_D3330a	IC Certify ADR for Footbridge Building (Clause 5.4.3.9, Specs Part A)	14	31-Dec-20	13-Jan-21	15-Feb-21	28-Feb-21	456
O2_D3335a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	14-Jan-21	20-Jan-21	01-Mar-21	07-Mar-21	456
EMPLOYER's CONSENT		56	21-Jan-21	17-Mar-21	08-Mar-21	02-May-21	456
O2_D3340a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	21-Jan-21	27-Jan-21	08-Mar-21	14-Mar-21	456
O2_D3345a	ER Comment on the submitted ADR for Footbridge Building (Clause 5.4.3.17.c, Specs Part A)	14	28-Jan-21	10-Feb-21	15-Mar-21	28-Mar-21	456
O2_D3350a	Submit further information for the submitted ADR for Footbridge Building to ER (Clause 5.4.3.19, Specs Part A)	7	11-Feb-21	17-Feb-21	29-Mar-21	04-Apr-21	456
O2_D3355a	ER Comment on the re-submitted ADR for Footbridge Building (Clause 5.4.3.17.a, Specs Part A)	14	18-Feb-21	03-Mar-21	05-Apr-21	18-Apr-21	456
O2_D3360a	ER Consented ADR for Footbridge Building (Clause 5.4.3.17.a, Specs Part A)	0		03-Mar-21		18-Apr-21	456
O2_D3365a	Submit Two Complete Sets ADR for Footbridge Building to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	04-Mar-21	10-Mar-21	19-Apr-21	25-Apr-21	456
O2_D3370a	Design Registered - ADR for Footbridge Building	7	11-Mar-21	17-Mar-21	26-Apr-21	02-May-21	456
C1.4 - PUMP HOUSE - ARCHITECTURAL WORKS		137	10-Dec-20	17-Mar-21	30-Dec-20 A	25-Apr-21	371
IC CHECKING & CERTIFICATION		81	10-Dec-20	20-Jan-21	30-Dec-20 A	28-Feb-21	371
O2_D3420a	IC Comment on the re-submitted ADR for Pump House (Clause 5.4.3.9, Specs Part A)	14	10-Dec-20	23-Dec-20	30-Dec-20 A	13-Jan-21 A	
O2_D3425a	Submit further information for the re-submitted ADR for Pump House to IC (Clause 5.4.3.9, Specs Part A)	7	24-Dec-20	30-Dec-20	14-Jan-21 A	07-Feb-21	371
O2_D3430a	IC Certify ADR for Pump House (Clause 5.4.3.9, Specs Part A)	14	31-Dec-20	13-Jan-21	08-Feb-21	21-Feb-21	371
O2_D3435a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	14-Jan-21	20-Jan-21	22-Feb-21	28-Feb-21	371



AJA JOINT VENTURE

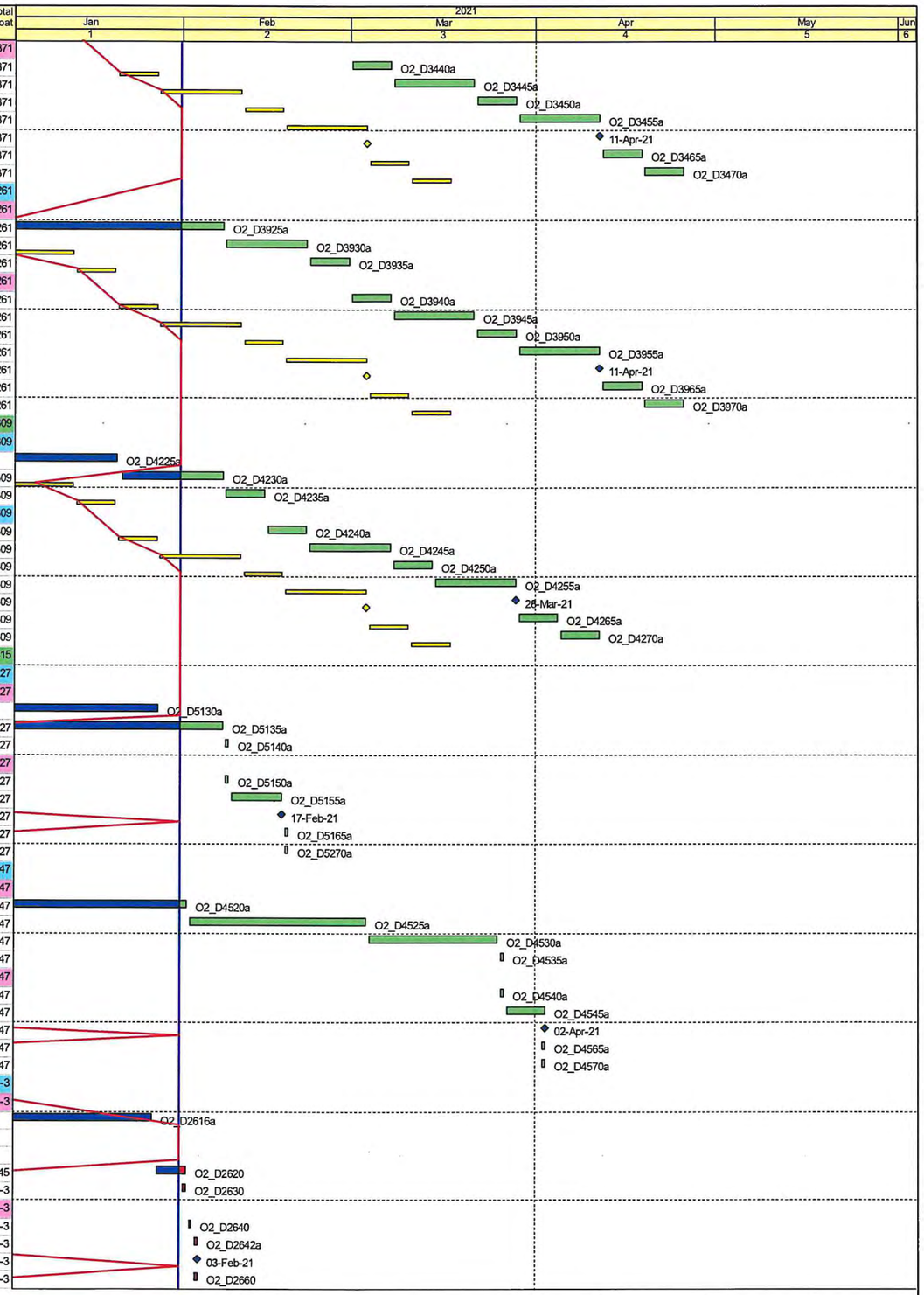
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
EMPLOYER's CONSENT		56	21-Jan-21	17-Mar-21	01-Mar-21	25-Apr-21	371
O2_D3440a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	21-Jan-21	27-Jan-21	01-Mar-21	07-Mar-21	371
O2_D3445a	ER Comment on the submitted ADR for Pump House (Clause 5.4.3.17.c, Specs Part A)	14	28-Jan-21	10-Feb-21	08-Mar-21	21-Mar-21	371
O2_D3450a	Submit further information for the submitted ADR for Pump House to ER (Clause 5.4.3.19, Specs Part A)	7	11-Feb-21	17-Feb-21	22-Mar-21	28-Mar-21	371
O2_D3455a	ER Comment on the re-submitted ADR for Pump House (Clause 5.4.3.17.a, Specs Part A)	14	18-Feb-21	03-Mar-21	29-Mar-21	11-Apr-21	371
O2_D3460a	ER Consented ADR for Pump House (Clause 5.4.3.17.a, Specs Part A)	0		03-Mar-21		11-Apr-21	371
O2_D3465a	Submit Two Complete Sets ADR for Pump House to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	04-Mar-21	10-Mar-21	12-Apr-21	18-Apr-21	371
O2_D3470a	Design Registered - ADR for Pump House	7	11-Mar-21	17-Mar-21	19-Apr-21	25-Apr-21	371
C1.7 - ANCILLIARY FACILITIES - ARCHITECTURAL WORKS		123	24-Dec-20	17-Mar-21	14-Nov-20 A	25-Apr-21	261
IC CHECKING & CERTIFICATION		67	24-Dec-20	20-Jan-21	14-Nov-20 A	28-Feb-21	261
O2_D3925a	Submit further information for the re-submitted ADR for Ancillary Facilities to IC (Clause 5.4.3.9, Specs Part A)	7	24-Dec-20	30-Dec-20	14-Nov-20 A	07-Feb-21	261
O2_D3930a	IC Certify ADR for Ancillary Facilities (Clause 5.4.3.9, Specs Part A)	14	31-Dec-20	13-Jan-21	08-Feb-21	21-Feb-21	261
O2_D3935a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	14-Jan-21	20-Jan-21	22-Feb-21	28-Feb-21	261
EMPLOYER's CONSENT		56	21-Jan-21	17-Mar-21	01-Mar-21	25-Apr-21	261
O2_D3940a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	21-Jan-21	27-Jan-21	01-Mar-21	07-Mar-21	261
O2_D3945a	ER Comment on the submitted ADR for Ancillary Facilities (Clause 5.4.3.17.c, Specs Part A)	14	28-Jan-21	10-Feb-21	08-Mar-21	21-Mar-21	261
O2_D3950a	Submit further information for the submitted ADR for Ancillary Facilities to ER (Clause 5.4.3.19, Specs Part A)	7	11-Feb-21	17-Feb-21	22-Mar-21	28-Mar-21	261
O2_D3955a	ER Comment on the re-submitted ADR for Ancillary Facilities (Clause 5.4.3.17.a, Specs Part A)	14	18-Feb-21	03-Mar-21	29-Mar-21	11-Apr-21	261
O2_D3960a	ER Consented ADR for Ancillary Facilities (Clause 5.4.3.17.a, Specs Part A)	0		03-Mar-21		11-Apr-21	261
O2_D3965a	Submit Two Complete Sets ADR for Ancillary Facilities to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	04-Mar-21	10-Mar-21	12-Apr-21	18-Apr-21	261
O2_D3970a	Design Registered - ADR for Ancillary Facilities	7	11-Mar-21	17-Mar-21	19-Apr-21	25-Apr-21	261
C2 - LANDSCAPING DESIGN REPORT (INCL. IRRIGATION DESIGN) & DRAWING SUBMISSION		109	24-Dec-20	17-Mar-21	12-Nov-20 A	11-Apr-21	309
IC CHECKING & CERTIFICATION		53	24-Dec-20	20-Jan-21	12-Nov-20 A	14-Feb-21	309
O2_D4225a	Submit further information for the re-submitted Landscaping to IC (Clause 5.4.3.9, Specs Part A)	7	24-Dec-20	30-Dec-20	12-Nov-20 A	21-Jan-21 A	
O2_D4230a	IC Certify Landscaping (Clause 5.4.3.9, Specs Part A)	14	31-Dec-20	13-Jan-21	22-Jan-21 A	07-Feb-21	309
O2_D4235a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	14-Jan-21	20-Jan-21	08-Feb-21	14-Feb-21	309
EMPLOYER's CONSENT		56	21-Jan-21	17-Mar-21	15-Feb-21	11-Apr-21	309
O2_D4240a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	21-Jan-21	27-Jan-21	15-Feb-21	21-Feb-21	309
O2_D4245a	ER Comment on the submitted Landscaping (Clause 5.4.3.17.c, Specs Part A)	14	28-Jan-21	10-Feb-21	22-Feb-21	07-Mar-21	309
O2_D4250a	Submit further information for the submitted Landscaping to ER (Clause 5.4.3.19, Specs Part A)	7	11-Feb-21	17-Feb-21	08-Mar-21	14-Mar-21	309
O2_D4255a	ER Comment on the re-submitted Landscaping (Clause 5.4.3.17.a, Specs Part A)	14	18-Feb-21	03-Mar-21	15-Mar-21	28-Mar-21	309
O2_D4260a	ER Consented Landscaping (Clause 5.4.3.17.a, Specs Part A)	0		03-Mar-21		28-Mar-21	309
O2_D4265a	Submit Two Complete Sets Landscaping to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	04-Mar-21	10-Mar-21	29-Mar-21	04-Apr-21	309
O2_D4270a	Design Registered - Landscaping	7	11-Mar-21	17-Mar-21	05-Apr-21	11-Apr-21	309
C3 - CIVIL AND STRUCTURE DESIGN REPORT, CALCULATIONS, SPECIFICATIONS & DRAWING SUBMISSION		419	02-Apr-20	30-Mar-21	02-Apr-20 A	04-Jun-21	415
C3.1a - ADMINISTRATION BUILDING - FOOTING		94	17-Nov-20	15-Dec-20	17-Nov-20 A	18-Feb-21	127
IC CHECKING & CERTIFICATION		84	17-Nov-20	05-Dec-20	17-Nov-20 A	08-Feb-21	127
O2_D5130a	Submit further information for the re-submitted Reception Building - Footing to IC (Clause 5.4.3.9, Specs Part A)	10	17-Nov-20	26-Nov-20	17-Nov-20 A	28-Jan-21 A	
O2_D5135a	IC Certify Reception Building - Footing (Clause 5.4.3.9, Specs Part A)	8	27-Nov-20	04-Dec-20	11-Dec-20 A	07-Feb-21	127
O2_D5140a	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	1	05-Dec-20	05-Dec-20	08-Feb-21	08-Feb-21	127
EMPLOYER's CONSENT		11	05-Dec-20	15-Dec-20	08-Feb-21	18-Feb-21	127
O2_D5150a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	1	05-Dec-20	05-Dec-20	08-Feb-21	08-Feb-21	127
O2_D5155a	ER Comment on the submitted Reception Building - Footing (Clause 5.4.3.17.c, Specs Part A)	9	06-Dec-20	14-Dec-20	09-Feb-21	17-Feb-21	127
O2_D5160a	ER Consented Reception Building - Footing (Clause 5.4.3.17.a, Specs Part A)	0		14-Dec-20		17-Feb-21	127
O2_D5165a	Submit Two Complete Sets Reception Building - Footing to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	15-Dec-20	15-Dec-20	18-Feb-21	18-Feb-21	127
O2_D5270a	Design Registered - Reception Building - Footing	1	15-Dec-20	15-Dec-20	18-Feb-21	18-Feb-21	127
C3.2 - RECEPTION BUILDING - SUPERSTRUCTURE		206	09-Sep-20	01-Dec-20	12-Nov-20 A	02-Apr-21	47
IC CHECKING & CERTIFICATION		199	09-Sep-20	24-Nov-20	12-Nov-20 A	26-Mar-21	47
O2_D4520a	IC Comment on the re-submitted Reception Building - Supertructure (Clause 5.4.3.9, Specs Part A) *	24	09-Sep-20	02-Oct-20	12-Nov-20 A	01-Feb-21	47
O2_D4525a	Submit further information for the re-submitted Reception Building - Supertructure to IC (Clause 5.4.3.9, SpecsPart A) *	30	03-Oct-20	01-Nov-20	02-Feb-21	03-Mar-21	47
O2_D4530a	IC Certify Reception Building - Supertructure (Clause 5.4.3.9, Specs Part A) *	22	02-Nov-20	23-Nov-20	04-Mar-21	25-Mar-21	47
O2_D4535a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	1	24-Nov-20	24-Nov-20	26-Mar-21	26-Mar-21	47
EMPLOYER's CONSENT		8	24-Nov-20	01-Dec-20	26-Mar-21	02-Apr-21	47
O2_D4540a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	1	24-Nov-20	24-Nov-20	26-Mar-21	26-Mar-21	47
O2_D4545a	ER Comment on the submitted Reception Building - Supertructure (Clause 5.4.3.17.c, Specs Part A)	7	25-Nov-20	01-Dec-20	27-Mar-21	02-Apr-21	47
O2_D4560	ER Consented Reception Building - Supertructure (Clause 5.4.3.17.a, Specs Part A)	0		01-Dec-20		02-Apr-21	47
O2_D4565a	Submit Two Complete Sets Reception Bldg - Supertructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	01-Dec-20	01-Dec-20	02-Apr-21	02-Apr-21	47
O2_D4570a	Design Registered - Reception Building - Supertructure	1	01-Dec-20	01-Dec-20	02-Apr-21	02-Apr-21	47
C3.3 - GRANULATION BUILDING - FOUNDATION		121	08-Oct-20	20-Dec-20	19-Jun-20 A	03-Feb-21	-3
IC CHECKING & CERTIFICATION		121	08-Oct-20	18-Dec-20	19-Jun-20 A	01-Feb-21	-3
O2_D2616a	Submit further information for the re-submitted Granulation Building - Footing to IC (Clause 5.4.3.9, Specs Part A)	13	08-Oct-20	20-Oct-20	19-Jun-20 A	27-Jan-21 A	
O2_D2618b	Dewatering & Granulation System Submission (C5.7)	0		27-Nov-20		03-Dec-20 A	
O2_D2618d	Confirmation of Final CAPCS Loading (C5.9)	0		27-Nov-20		04-Dec-20 A	
O2_D2620	IC Certify Granulation Building - Footing (Clause 5.4.3.9, Specs Part A)	18	01-Dec-20	18-Dec-20	28-Jan-21 A	01-Feb-21	-45
O2_D2630	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	1	18-Dec-20	18-Dec-20	01-Feb-21	01-Feb-21	-3
EMPLOYER's CONSENT		2	19-Dec-20	20-Dec-20	02-Feb-21	03-Feb-21	-3
O2_D2640	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	1	19-Dec-20	19-Dec-20	02-Feb-21	02-Feb-21	-3
O2_D2642a	ER Comment on the submitted Granulation Building - Footing (Clause 5.4.3.17.c, Specs Part A)	1	20-Dec-20	20-Dec-20	03-Feb-21	03-Feb-21	-3
O2_D2650	ER Consented Granulation on Building - Footing (Clause 5.4.3.17.a, Specs Part A)	0		20-Dec-20		03-Feb-21	-3
O2_D2660	Submit Two Complete Sets Granulation Building - Footing to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	20-Dec-20	20-Dec-20	03-Feb-21	03-Feb-21	-3



AJA JOINT VENTURE

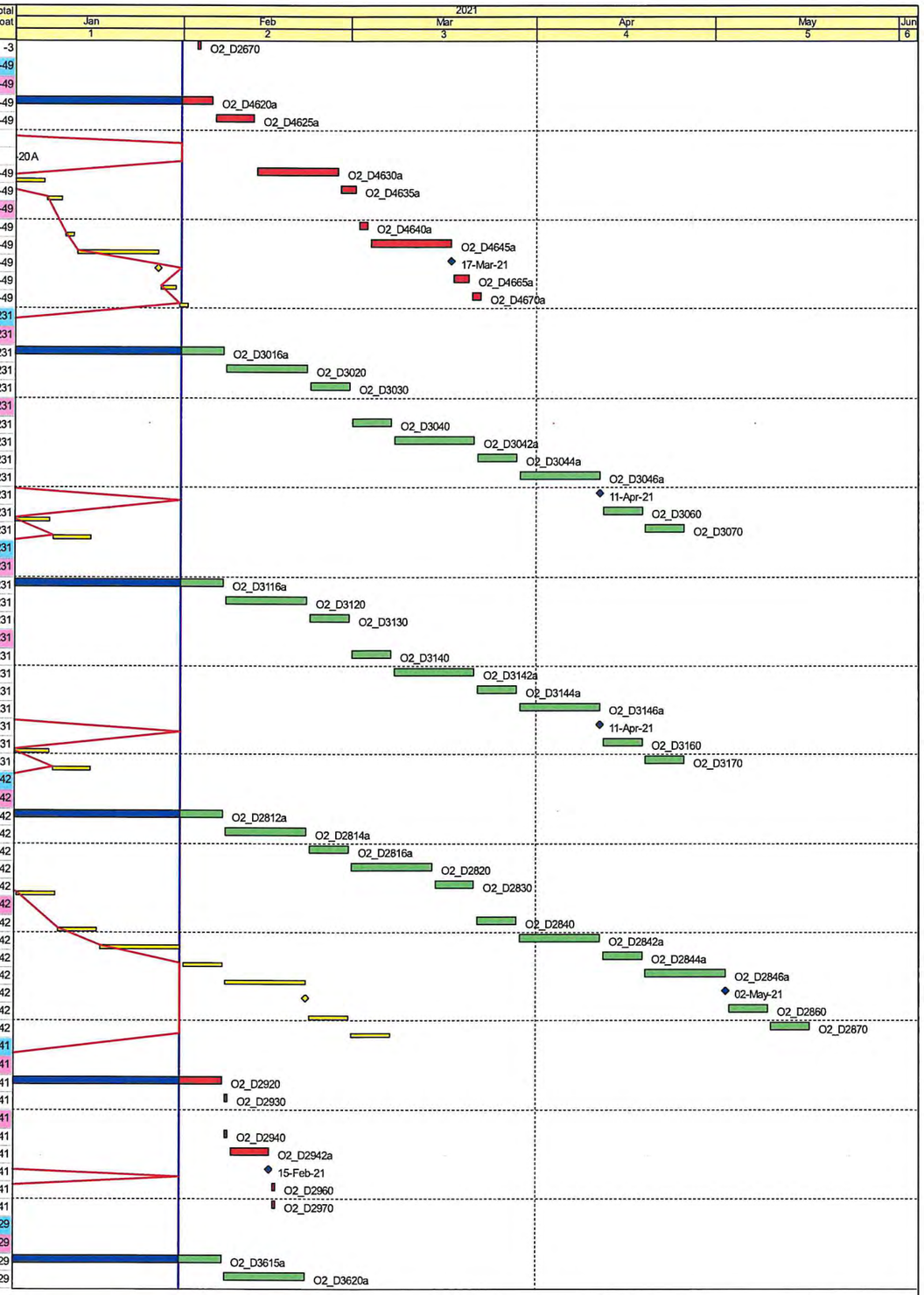
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_D2670	Design Registered - Granulation Building - Footing	1	20-Dec-20	20-Dec-20	03-Feb-21	03-Feb-21	-3
C3.4 - GRANULATION BUILDING - SUPERSTRUCTURE		136	07-Nov-20	01-Feb-21	31-Oct-20 A	22-Mar-21	-49
IC CHECKING & CERTIFICATION		115	07-Nov-20	11-Jan-21	31-Oct-20 A	01-Mar-21	-49
O2_D4620a	IC Comment on the re-submitted Granulation Building - Superstructure (Clause 5.4.3.9, Specs Part A) *	15	07-Nov-20	21-Nov-20	31-Oct-20 A	05-Feb-21	-49
O2_D4625a	Submit further information for the re-submitted Granulation Bldg - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	22-Nov-20	28-Nov-20	06-Feb-21	12-Feb-21	-49
O2_D4628b	Dewatering & Granulation System Submission (C5.7)	0		27-Nov-20		03-Dec-20 A	
O2_D4628d	Centralized Air Pollution Control System (C5.9)	0		27-Dec-20		04-Dec-20 A	
O2_D4630a	IC Certify Granulation Building - Superstructure (Clause 5.4.3.9, Specs Part A)	14	26-Dec-20	08-Jan-21	13-Feb-21	26-Feb-21	-49
O2_D4635a	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	3	09-Jan-21	11-Jan-21	27-Feb-21	01-Mar-21	-49
EMPLOYER's CONSENT		21	12-Jan-21	01-Feb-21	02-Mar-21	22-Mar-21	-49
O2_D4640a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	2	12-Jan-21	13-Jan-21	02-Mar-21	03-Mar-21	-49
O2_D4645a	ER Comment on the submitted Granulation Building - Superstructure (Clause 5.4.3.17.c, Specs Part A)	14	14-Jan-21	27-Jan-21	04-Mar-21	17-Mar-21	-49
O2_D4660a	ER Consented Granulation Building - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0		27-Jan-21		17-Mar-21	-49
O2_D4665a	Submit Two Complete Sets Granulation Bldg - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	3	28-Jan-21	30-Jan-21	18-Mar-21	20-Mar-21	-49
O2_D4670a	Design Registered - Granulation Building - Superstructure	2	31-Jan-21	01-Feb-21	21-Mar-21	22-Mar-21	-49
C3.5 - FOOTBRIDGE - FOUNDATION		183	25-Oct-20	16-Jan-21	16-Jul-20 A	25-Apr-21	231
IC CHECKING & CERTIFICATION		127	25-Oct-20	21-Nov-20	16-Jul-20 A	28-Feb-21	231
O2_D3016a	Submit further information for the re-submitted Footbridge - Footing to IC (Clause 5.4.3.9, Specs Part A)	7	25-Oct-20	31-Oct-20	16-Jul-20 A	07-Feb-21	231
O2_D3020	IC Certify Footbridge - Footing (Clause 5.4.3.9, Specs Part A)	14	01-Nov-20	14-Nov-20	08-Feb-21	21-Feb-21	231
O2_D3030	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	7	15-Nov-20	21-Nov-20	22-Feb-21	28-Feb-21	231
EMPLOYER's CONSENT		56	22-Nov-20	16-Jan-21	01-Mar-21	25-Apr-21	231
O2_D3040	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	22-Nov-20	28-Nov-20	01-Mar-21	07-Mar-21	231
O2_D3042a	ER Comment on the submitted Footbridge - Footing (Clause 5.4.3.17.c, Specs Part A)	14	29-Nov-20	12-Dec-20	08-Mar-21	21-Mar-21	231
O2_D3044a	Submit further information for the submitted Footbridge - Footing to ER (Clause 5.4.3.19, Specs Part A)	7	13-Dec-20	19-Dec-20	22-Mar-21	28-Mar-21	231
O2_D3046a	ER Comment on the re-submitted Footbridge - Footing (Clause 5.4.3.17.a, Specs Part A)	14	20-Dec-20	02-Jan-21	29-Mar-21	11-Apr-21	231
O2_D3050	ER Consented Footbridge - Footing (Clause 5.4.3.17.a, Specs Part A)	0		02-Jan-21		11-Apr-21	231
O2_D3060	Submit Two Complete Sets Footbridge - Footing to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	03-Jan-21	09-Jan-21	12-Apr-21	18-Apr-21	231
O2_D3070	Design Registered - Footbridge - Footing	7	10-Jan-21	16-Jan-21	19-Apr-21	25-Apr-21	231
C3.6 - FOOTBRIDGE - SUPERSTRUCTURE		183	25-Oct-20	16-Jan-21	08-Aug-20 A	25-Apr-21	231
IC CHECKING & CERTIFICATION		127	25-Oct-20	21-Nov-20	08-Aug-20 A	28-Feb-21	231
O2_D3116a	Submit further information for the re-submitted Footbridge - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	25-Oct-20	31-Oct-20	08-Aug-20 A	07-Feb-21	231
O2_D3120	IC Certify Footbridge - Superstructure (Clause 5.4.3.9, Specs Part A)	14	01-Nov-20	14-Nov-20	08-Feb-21	21-Feb-21	231
O2_D3130	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	7	15-Nov-20	21-Nov-20	22-Feb-21	28-Feb-21	231
EMPLOYER's CONSENT		56	22-Nov-20	16-Jan-21	01-Mar-21	25-Apr-21	231
O2_D3140	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	22-Nov-20	28-Nov-20	01-Mar-21	07-Mar-21	231
O2_D3142a	ER Comment on the submitted Footbridge - Superstructure (Clause 5.4.3.17.c, Specs Part A)	14	29-Nov-20	12-Dec-20	08-Mar-21	21-Mar-21	231
O2_D3144a	Submit further information for the submitted Footbridge - Superstructure to ER (Clause 5.4.3.19, Specs Part A)	7	13-Dec-20	19-Dec-20	22-Mar-21	28-Mar-21	231
O2_D3146a	ER Comment on the re-submitted Footbridge - Superstructure (Clause 5.4.3.17.a, Specs Part A)	14	20-Dec-20	02-Jan-21	29-Mar-21	11-Apr-21	231
O2_D3150	ER Consented Footbridge - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0		02-Jan-21		11-Apr-21	231
O2_D3160	Submit Two Complete Sets Footbridge - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	03-Jan-21	09-Jan-21	12-Apr-21	18-Apr-21	231
O2_D3170	Design Registered - Footbridge - Superstructure	7	10-Jan-21	16-Jan-21	19-Apr-21	25-Apr-21	231
C3.8 - PUMP HOUSE - SUPERSTRUCTURE		175	23-Nov-20	07-Mar-21	08-Aug-20 A	16-May-21	142
IC CHECKING & CERTIFICATION		119	23-Nov-20	10-Jan-21	08-Aug-20 A	21-Mar-21	142
O2_D2812a	Submit further information for the submitted Pump House - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	23-Nov-20	29-Nov-20	08-Aug-20 A	07-Feb-21	142
O2_D2814a	IC Comment on the re-submitted Pump House - Superstructure (Clause 5.4.3.9, Specs Part A)	14	30-Nov-20	13-Dec-20	08-Feb-21	21-Feb-21	142
O2_D2816a	Submit further information for the re-submitted Pump House - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	14-Dec-20	20-Dec-20	22-Feb-21	28-Feb-21	142
O2_D2820	IC Certify Pump House - Superstructure (Clause 5.4.3.9, Specs Part A)	14	21-Dec-20	03-Jan-21	01-Mar-21	14-Mar-21	142
O2_D2830	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	7	04-Jan-21	10-Jan-21	15-Mar-21	21-Mar-21	142
EMPLOYER's CONSENT		56	11-Jan-21	07-Mar-21	22-Mar-21	16-May-21	142
O2_D2840	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	11-Jan-21	17-Jan-21	22-Mar-21	28-Mar-21	142
O2_D2842a	ER Comment on the submitted Pump House - Superstructure (Clause 5.4.3.17.c, Specs Part A)	14	18-Jan-21	31-Jan-21	29-Mar-21	11-Apr-21	142
O2_D2844a	Submit further information for the submitted Pump House - Superstructure to ER (Clause 5.4.3.19, Specs Part A)	7	01-Feb-21	07-Feb-21	12-Apr-21	18-Apr-21	142
O2_D2846a	ER Comment on the re-submitted Pump House - Superstructure (Clause 5.4.3.17.a, Specs Part A)	14	08-Feb-21	21-Feb-21	19-Apr-21	02-May-21	142
O2_D2850	ER Consented Pump House - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0		21-Feb-21		02-May-21	142
O2_D2860	Submit Two Complete Sets Pump House - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	22-Feb-21	28-Feb-21	03-May-21	09-May-21	142
O2_D2870	Design Registered - Pump House - Superstructure	7	01-Mar-21	07-Mar-21	10-May-21	16-May-21	142
C3.10 - AD TANKS & BOUNDARY WALL - SUPERSTRUCTURE		189	12-Aug-20	01-Dec-20	30-Dec-20 A	16-Feb-21	-41
IC CHECKING & CERTIFICATION		181	12-Aug-20	23-Nov-20	30-Dec-20 A	08-Feb-21	-41
O2_D2920	IC Certify AD Tanks & Boundary Wall - Superstructure (Clause 5.4.3.9, Specs Part A)	103	12-Aug-20	22-Nov-20	30-Dec-20 A	07-Feb-21	-41
O2_D2930	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	1	23-Nov-20	23-Nov-20	08-Feb-21	08-Feb-21	-41
EMPLOYER's CONSENT		9	23-Nov-20	01-Dec-20	08-Feb-21	16-Feb-21	-41
O2_D2940	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	1	23-Nov-20	23-Nov-20	08-Feb-21	08-Feb-21	-41
O2_D2942a	ER Comment on the submitted AD Tanks & Boundary Wall - Superstructure (Clause 5.4.3.17.c, Specs Part A)	7	24-Nov-20	30-Nov-20	09-Feb-21	15-Feb-21	-41
O2_D2950	ER Consented AD Tanks & Boundary Wall - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0		30-Nov-20		15-Feb-21	-41
O2_D2960	Submit Two Complete Sets ADT & BW - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	01-Dec-20	01-Dec-20	16-Feb-21	16-Feb-21	-41
O2_D2970	Design Registered - AD Tanks & Boundary Wall - Superstructure	1	01-Dec-20	01-Dec-20	16-Feb-21	16-Feb-21	-41
C3.12 - TANK WALKWAYS - SUPERSTRUCTURE		196	02-Nov-20	14-Feb-21	04-Aug-20 A	16-May-21	329
IC CHECKING & CERTIFICATION		140	02-Nov-20	20-Dec-20	04-Aug-20 A	21-Mar-21	329
O2_D3615a	Submit further information for the submitted Tanks Walkways - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	02-Nov-20	08-Nov-20	04-Aug-20 A	07-Feb-21	329
O2_D3620a	IC Comment on the re-submitted Tanks Walkways - Superstructure (Clause 5.4.3.9, Specs Part A)	14	09-Nov-20	22-Nov-20	08-Feb-21	21-Feb-21	329



AJA JOINT VENTURE

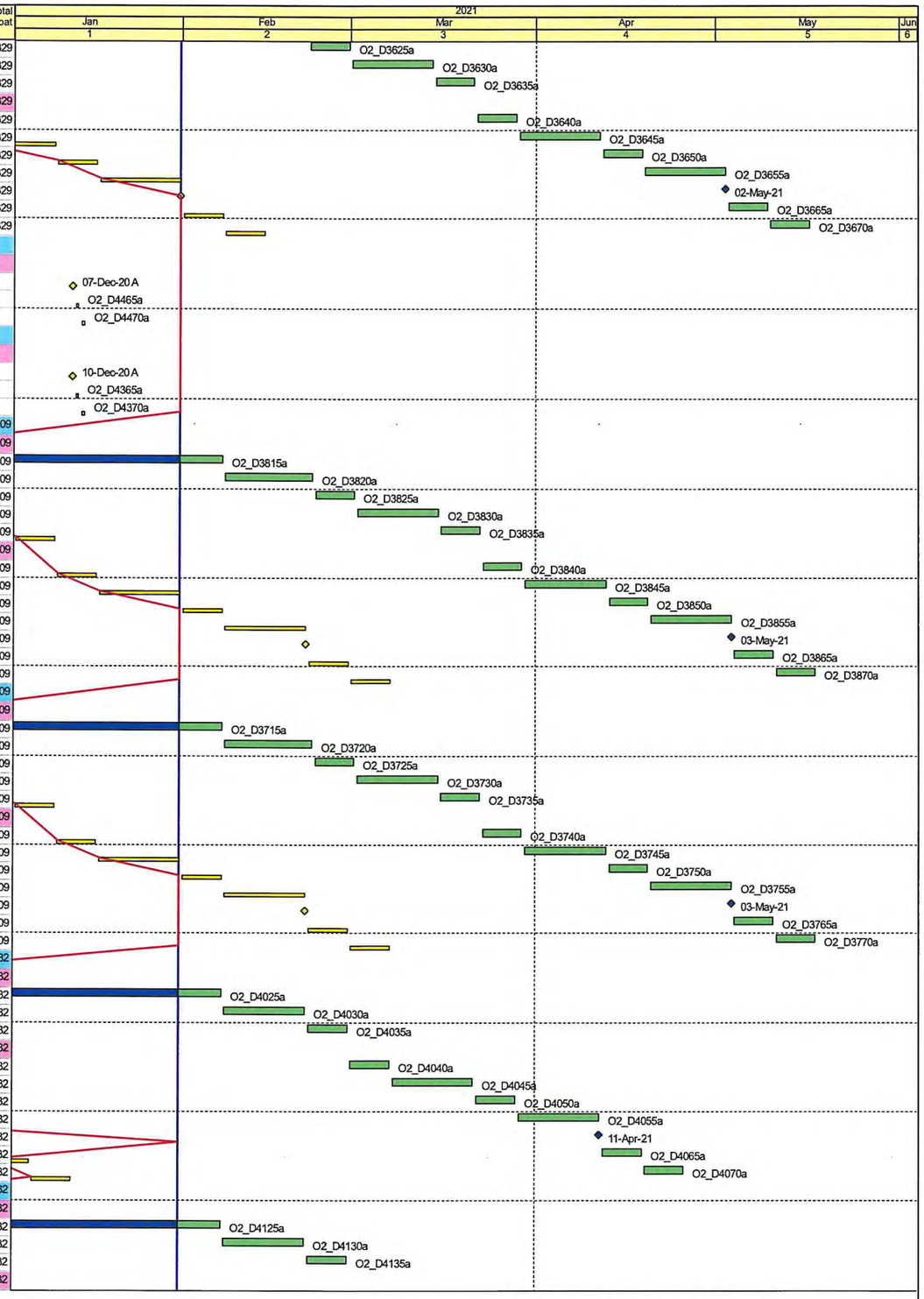
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_D3625a	Submit further information for the re-submitted Tanks Walkways - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	23-Nov-20	29-Nov-20	22-Feb-21	28-Feb-21	329
O2_D3630a	IC Certify Tanks Walkways - Superstructure (Clause 5.4.3.9, Specs Part A)	14	30-Nov-20	13-Dec-20	01-Mar-21	14-Mar-21	329
O2_D3635a	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	7	14-Dec-20	20-Dec-20	15-Mar-21	21-Mar-21	329
EMPLOYER's CONSENT		56	21-Dec-20	14-Feb-21	22-Mar-21	16-May-21	329
O2_D3640a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	21-Dec-20	27-Dec-20	22-Mar-21	28-Mar-21	329
O2_D3645a	ER Comment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A)	14	28-Dec-20	10-Jan-21	29-Mar-21	11-Apr-21	329
O2_D3650a	Submit further information for the submitted Tanks Walkways - Superstructure to ER (Clause 5.4.3.19, Specs Part A)	7	11-Jan-21	17-Jan-21	12-Apr-21	18-Apr-21	329
O2_D3655a	ER Comment on the re-submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A)	14	18-Jan-21	31-Jan-21	19-Apr-21	02-May-21	329
O2_D3660a	ER Consented Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0		31-Jan-21		02-May-21	329
O2_D3665a	Submit Two Complete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	01-Feb-21	07-Feb-21	03-May-21	09-May-21	329
O2_D3670a	Design Registered - Tanks Walkways - Superstructure	7	08-Feb-21	14-Feb-21	10-May-21	16-May-21	329
C3.13 - GEOTECHNICAL APPRAISAL REPORT		2	13-Jan-21	15-Jan-21	07-Dec-20 A	09-Dec-20 A	
EMPLOYER's CONSENT		2	13-Jan-21	15-Jan-21	07-Dec-20 A	09-Dec-20 A	
O2_D4460a	ER Consented Geotechnical Appraisal Report (Clause 5.4.3.17.a, Specs Part A)	0		13-Jan-21		07-Dec-20 A	
O2_D4465a	Submit Two Complete Sets Geotechnical Appraisal Report to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	14-Jan-21	14-Jan-21	08-Dec-20 A	08-Dec-20 A	
O2_D4470a	Design Registered - Geotechnical Appraisal Report	1	15-Jan-21	15-Jan-21	09-Dec-20 A	09-Dec-20 A	
C3.14 - GEOTECHNICAL DESIGN REPORT		2	13-Jan-21	15-Jan-21	10-Dec-20 A	12-Dec-20 A	
EMPLOYER's CONSENT		2	13-Jan-21	15-Jan-21	10-Dec-20 A	12-Dec-20 A	
O2_D4360a	ER Consented Geotechnical Design Report (Clause 5.4.3.17.a, Specs Part A)	0		13-Jan-21		10-Dec-20 A	
O2_D4365a	Submit Two Complete Sets Geotechnical Design Report to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	14-Jan-21	14-Jan-21	11-Dec-20 A	11-Dec-20 A	
O2_D4370a	Design Registered - Geotechnical Design Report	1	15-Jan-21	15-Jan-21	12-Dec-20 A	12-Dec-20 A	
C3.15 - DRAINAGE WORKS DESIGN		272	19-Aug-20	07-Mar-21	19-Jun-20 A	17-May-21	209
IC CHECKING & CERTIFICATION		216	19-Aug-20	10-Jan-21	19-Jun-20 A	22-Mar-21	209
O2_D3815a	Submit further information for the submitted Drainage Works Design to IC (Clause 5.4.3.9, Specs Part A) *	102	19-Aug-20	28-Nov-20	19-Jun-20 A	07-Feb-21	209
O2_D3820a	IC Comment on the re-submitted Geotechnical Drainage Works Design (Clause 5.4.3.9, Specs Part A) *	15	29-Nov-20	13-Dec-20	08-Feb-21	22-Feb-21	209
O2_D3825a	Submit further information for the re-submitted Drainage Works Design to IC (Clause 5.4.3.9, Specs Part A)	7	14-Dec-20	20-Dec-20	23-Feb-21	01-Mar-21	209
O2_D3830a	IC Certify Drainage Works Design (Clause 5.4.3.9, Specs Part A)	14	21-Dec-20	03-Jan-21	02-Mar-21	15-Mar-21	209
O2_D3835a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	04-Jan-21	10-Jan-21	16-Mar-21	22-Mar-21	209
EMPLOYER's CONSENT		56	11-Jan-21	07-Mar-21	23-Mar-21	17-May-21	209
O2_D3840a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	11-Jan-21	17-Jan-21	23-Mar-21	29-Mar-21	209
O2_D3845a	ER Comment on the submitted Drainage Works Design (Clause 5.4.3.17.c, Specs Part A)	14	18-Jan-21	31-Jan-21	30-Mar-21	12-Apr-21	209
O2_D3850a	Submit further information for the submitted Drainage Works Design to ER (Clause 5.4.3.19, Specs Part A)	7	01-Feb-21	07-Feb-21	13-Apr-21	19-Apr-21	209
O2_D3855a	ER Comment on the re-submitted Drainage Works Design (Clause 5.4.3.17.a, Specs Part A)	14	08-Feb-21	21-Feb-21	20-Apr-21	03-May-21	209
O2_D3860a	ER Consented Drainage Works Design (Clause 5.4.3.17.a, Specs Part A)	0		21-Feb-21		03-May-21	209
O2_D3865a	Submit Two Complete Sets Drainage Works Design to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	22-Feb-21	28-Feb-21	04-May-21	10-May-21	209
O2_D3870a	Design Registered - Drainage Works Design	7	01-Mar-21	07-Mar-21	11-May-21	17-May-21	209
C3.16 - SEWERAGE WORKS DESIGN		272	19-Aug-20	07-Mar-21	30-Jun-20 A	17-May-21	209
IC CHECKING & CERTIFICATION		216	19-Aug-20	10-Jan-21	30-Jun-20 A	22-Mar-21	209
O2_D3715a	Submit further information for the submitted Sewerage Works Design to IC (Clause 5.4.3.9, Specs Part A) *	102	19-Aug-20	28-Nov-20	30-Jun-20 A	07-Feb-21	209
O2_D3720a	IC Comment on the re-submitted Sewerage Works Design (Clause 5.4.3.9, Specs Part A) *	15	29-Nov-20	13-Dec-20	08-Feb-21	22-Feb-21	209
O2_D3725a	Submit further information for the re-submitted Sewerage Works Design to IC (Clause 5.4.3.9, Specs Part A)	7	14-Dec-20	20-Dec-20	23-Feb-21	01-Mar-21	209
O2_D3730a	IC Certify Sewerage Works Design (Clause 5.4.3.9, Specs Part A)	14	21-Dec-20	03-Jan-21	02-Mar-21	15-Mar-21	209
O2_D3735a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	04-Jan-21	10-Jan-21	16-Mar-21	22-Mar-21	209
EMPLOYER's CONSENT		56	11-Jan-21	07-Mar-21	23-Mar-21	17-May-21	209
O2_D3740a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	11-Jan-21	17-Jan-21	23-Mar-21	29-Mar-21	209
O2_D3745a	ER Comment on the submitted Sewerage Works Design (Clause 5.4.3.17.c, Specs Part A)	14	18-Jan-21	31-Jan-21	30-Mar-21	12-Apr-21	209
O2_D3750a	Submit further information for the submitted Sewerage Works Design to ER (Clause 5.4.3.19, Specs Part A)	7	01-Feb-21	07-Feb-21	13-Apr-21	19-Apr-21	209
O2_D3755a	ER Comment on the re-submitted Sewerage Works Design (Clause 5.4.3.17.a, Specs Part A)	14	08-Feb-21	21-Feb-21	20-Apr-21	03-May-21	209
O2_D3760a	ER Consented Sewerage Works Design (Clause 5.4.3.17.a, Specs Part A)	0		21-Feb-21		03-May-21	209
O2_D3765a	Submit Two Complete Sets Sewerage Works Design to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	22-Feb-21	28-Feb-21	04-May-21	10-May-21	209
O2_D3770a	Design Registered - Sewerage Works Design	7	01-Mar-21	07-Mar-21	11-May-21	17-May-21	209
C3.17 - WATERWORKS DESIGN		186	22-Oct-20	13-Jan-21	09-Oct-20 A	25-Apr-21	382
IC CHECKING & CERTIFICATION		130	22-Oct-20	18-Nov-20	09-Oct-20 A	28-Feb-21	382
O2_D4025a	Submit further information for the re-submitted Waterworks Design to IC (Clause 5.4.3.9, Specs Part A)	7	22-Oct-20	28-Oct-20	09-Oct-20 A	07-Feb-21	382
O2_D4030a	IC Certify Waterworks Design (Clause 5.4.3.9, Specs Part A)	14	29-Oct-20	11-Nov-20	08-Feb-21	21-Feb-21	382
O2_D4035a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	12-Nov-20	18-Nov-20	22-Feb-21	28-Feb-21	382
EMPLOYER's CONSENT		56	19-Nov-20	13-Jan-21	01-Mar-21	25-Apr-21	382
O2_D4040a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	19-Nov-20	25-Nov-20	01-Mar-21	07-Mar-21	382
O2_D4045a	ER Comment on the submitted Waterworks Design (Clause 5.4.3.17.c, Specs Part A)	14	26-Nov-20	09-Dec-20	08-Mar-21	21-Mar-21	382
O2_D4050a	Submit further information for the submitted Waterworks Design to ER (Clause 5.4.3.19, Specs Part A)	7	10-Dec-20	16-Dec-20	22-Mar-21	28-Mar-21	382
O2_D4055a	ER Comment on the re-submitted Waterworks Design (Clause 5.4.3.17.a, Specs Part A)	14	17-Dec-20	30-Dec-20	29-Mar-21	11-Apr-21	382
O2_D4060a	ER Consented Waterworks Design (Clause 5.4.3.17.a, Specs Part A)	0		30-Dec-20		11-Apr-21	382
O2_D4065a	Submit Two Complete Sets Waterworks Design to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	31-Dec-20	06-Jan-21	12-Apr-21	18-Apr-21	382
O2_D4070a	Design Registered - Waterworks Design	7	07-Jan-21	13-Jan-21	19-Apr-21	25-Apr-21	382
C3.18 - DESIGN FOR ROADWORKS AND STREET FURNITURES		186	22-Oct-20	13-Jan-21	18-Nov-20 A	25-Apr-21	382
IC CHECKING & CERTIFICATION		130	22-Oct-20	18-Nov-20	18-Nov-20 A	28-Feb-21	382
O2_D4125a	Submit further information for the re-submitted Roadworks and Street Furnitures to IC (Clause 5.4.3.9, Specs Part A)	7	22-Oct-20	28-Oct-20	18-Nov-20 A	07-Feb-21	382
O2_D4130a	IC Certify Roadworks and Street Furnitures (Clause 5.4.3.9, Specs Part A)	14	29-Oct-20	11-Nov-20	08-Feb-21	21-Feb-21	382
O2_D4135a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	12-Nov-20	18-Nov-20	22-Feb-21	28-Feb-21	382
EMPLOYER's CONSENT		56	19-Nov-20	13-Jan-21	01-Mar-21	25-Apr-21	382



AJA JOINT VENTURE

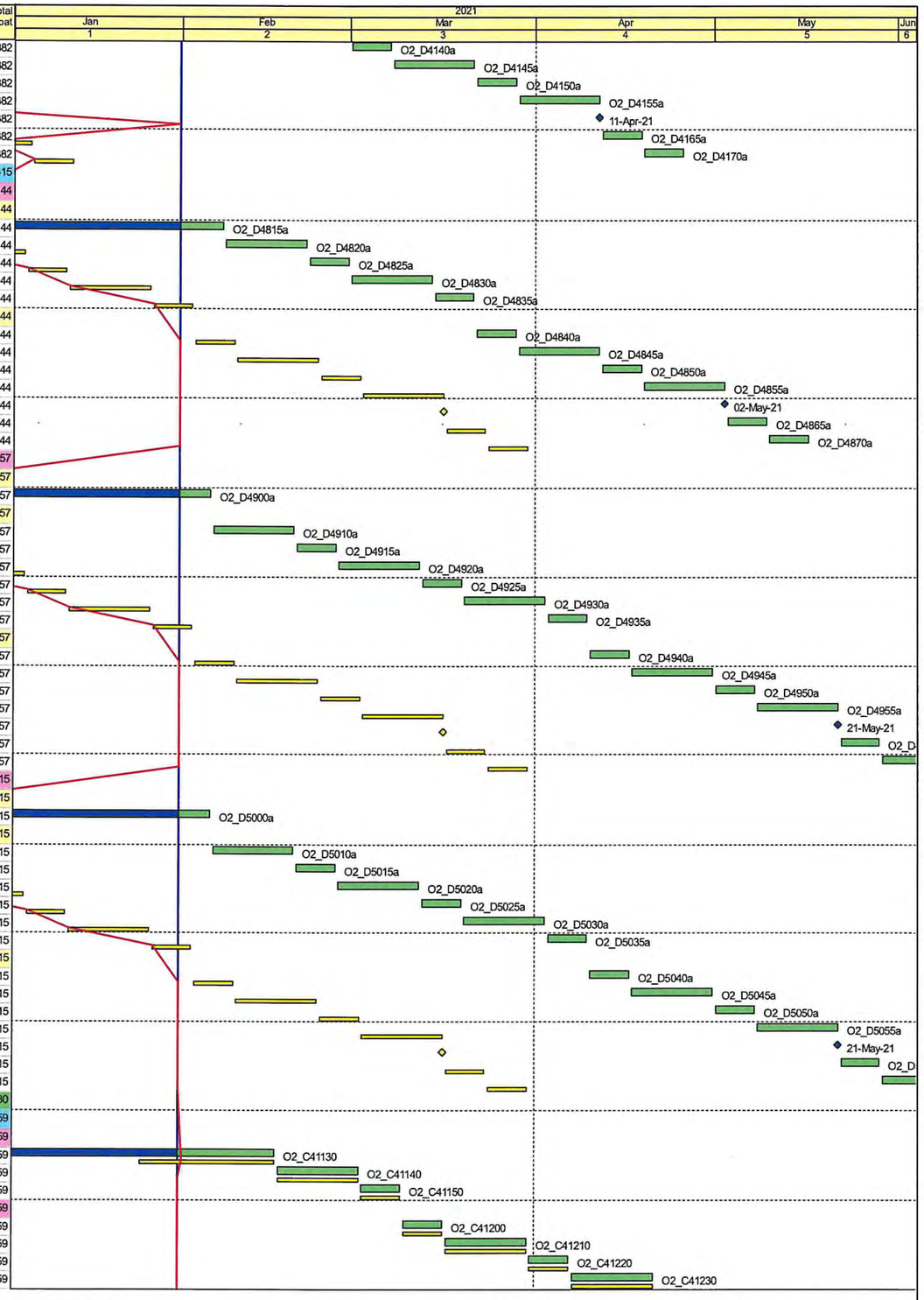
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_D4140a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	19-Nov-20	25-Nov-20	01-Mar-21	07-Mar-21	382
O2_D4145a	ER Comment on the submitted Roadworks and Street Furnitures (Clause 5.4.3.17.c, Specs Part A)	14	26-Nov-20	09-Dec-20	08-Mar-21	21-Mar-21	382
O2_D4150a	Submit further information for the submitted Roadworks and Street Furnitures to ER (Clause 5.4.3.19, Specs Part A)	7	10-Dec-20	16-Dec-20	22-Mar-21	28-Mar-21	382
O2_D4155a	ER Comment on the re-submitted Roadworks and Street Furnitures (Clause 5.4.3.17.a, Specs Part A)	14	17-Dec-20	30-Dec-20	29-Mar-21	11-Apr-21	382
O2_D4160a	ER Consented Roadworks and Street Furnitures (Clause 5.4.3.17.a, Specs Part A)	0		30-Dec-20		11-Apr-21	382
O2_D4165a	Submit Two Complete Sets Roadworks and Street Furnitures to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	31-Dec-20	06-Jan-21	12-Apr-21	18-Apr-21	382
O2_D4170a	Design Registered - Roadworks and Street Furnitures	7	07-Jan-21	13-Jan-21	19-Apr-21	25-Apr-21	382
C3.19 - ANCILLIARY FACILITIES		293	02-Apr-20	30-Mar-21	02-Apr-20 A	04-Jun-21	415
C3.19b - GUARD HOUSE, WEIGHBRIDGE & MASTER METER ROOM - FOUNDATION & STRUCTURE		152	16-Dec-20	30-Mar-21	16-Dec-20 A	16-May-21	144
IC CHECKING & CERTIFICATION		96	16-Dec-20	02-Feb-21	16-Dec-20 A	21-Mar-21	144
O2_D4815a	Submit further information for the submitted GH, WB & MMR to IC (Clause 5.4.3.9, Specs Part A)	7	16-Dec-20	22-Dec-20	16-Dec-20 A	07-Feb-21	144
O2_D4820a	IC Comment on the re-submitted GH, WB & MMR (Clause 5.4.3.9, Specs Part A)	14	23-Dec-20	05-Jan-21	08-Feb-21	21-Feb-21	144
O2_D4825a	Submit further information for the re-submitted GH, WB & MMR to IC (Clause 5.4.3.9, Specs Part A)	7	06-Jan-21	12-Jan-21	22-Feb-21	28-Feb-21	144
O2_D4830a	IC Certify GH, WB & MMR (Clause 5.4.3.9, Specs Part A)	14	13-Jan-21	26-Jan-21	01-Mar-21	14-Mar-21	144
O2_D4835a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	27-Jan-21	02-Feb-21	15-Mar-21	21-Mar-21	144
EMPLOYER's CONSENT		56	03-Feb-21	30-Mar-21	22-Mar-21	16-May-21	144
O2_D4840a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	03-Feb-21	09-Feb-21	22-Mar-21	28-Mar-21	144
O2_D4845a	ER Comment on the submitted GH, WB & MMR (Clause 5.4.3.17.c, Specs Part A)	14	10-Feb-21	23-Feb-21	29-Mar-21	11-Apr-21	144
O2_D4850a	Submit further information for the submitted GH, WB & MMR to ER (Clause 5.4.3.19, Specs Part A)	7	24-Feb-21	02-Mar-21	12-Apr-21	18-Apr-21	144
O2_D4855a	ER Comment on the re-submitted GH, WB & MMR (Clause 5.4.3.17.a, Specs Part A)	14	03-Mar-21	16-Mar-21	19-Apr-21	02-May-21	144
O2_D4860a	ER Consented GH, WB & MMR (Clause 5.4.3.17.a, Specs Part A)	0		16-Mar-21		02-May-21	144
O2_D4865a	Submit Two Complete Sets GH, WB & MMR to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	17-Mar-21	23-Mar-21	03-May-21	09-May-21	144
O2_D4870a	Design Registered - Guard House, Weighbridge & Master Meter Room	7	24-Mar-21	30-Mar-21	10-May-21	16-May-21	144
C3.19c - PUMP ROOM, DRAWPIT & DUCTING		244	02-Apr-20	30-Mar-21	02-Apr-20 A	04-Jun-21	157
SUBMISSION		244	02-Apr-20	01-Dec-20	02-Apr-20 A	05-Feb-21	157
O2_D4900a	Pump Room, Drawpit & Ducting (Clause 5.4.3.9, Specs Part A) *	244	02-Apr-20	01-Dec-20	02-Apr-20 A	05-Feb-21	157
IC CHECKING & CERTIFICATION		63	02-Dec-20	02-Feb-21	06-Feb-21	09-Apr-21	157
O2_D4910a	IC Comment on the submitted Pump Room, Drawpit & Ducting (Clause 5.4.3.9, Specs Part A)	14	02-Dec-20	15-Dec-20	06-Feb-21	19-Feb-21	157
O2_D4915a	Submit further information for the submitted Pump Room, Drawpit & Ducting to IC (Clause 5.4.3.9, Specs Part A)	7	16-Dec-20	22-Dec-20	20-Feb-21	26-Feb-21	157
O2_D4920a	IC Comment on the re-submitted Pump Room, Drawpit & Ducting (Clause 5.4.3.9, Specs Part A)	14	23-Dec-20	05-Jan-21	27-Feb-21	12-Mar-21	157
O2_D4925a	Submit further information for the re-submitted Pump Room, Drawpit & Ducting to IC (Clause 5.4.3.9, Specs Part A)	7	06-Jan-21	12-Jan-21	13-Mar-21	19-Mar-21	157
O2_D4930a	IC Certify Pump Room, Drawpit & Ducting (Clause 5.4.3.9, Specs Part A)	14	13-Jan-21	26-Jan-21	20-Mar-21	02-Apr-21	157
O2_D4935a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	27-Jan-21	02-Feb-21	03-Apr-21	09-Apr-21	157
EMPLOYER's CONSENT		56	03-Feb-21	30-Mar-21	10-Apr-21	04-Jun-21	157
O2_D4940a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	03-Feb-21	09-Feb-21	10-Apr-21	16-Apr-21	157
O2_D4945a	ER Comment on the submitted Pump Room, Drawpit & Ducting (Clause 5.4.3.17.c, Specs Part A)	14	10-Feb-21	23-Feb-21	17-Apr-21	30-Apr-21	157
O2_D4950a	Submit further information for the submitted Pump Room, Drawpit & Ducting to ER (Clause 5.4.3.19, Specs Part A)	7	24-Feb-21	02-Mar-21	01-May-21	07-May-21	157
O2_D4955a	ER Comment on the re-submitted Pump Room, Drawpit & Ducting (Clause 5.4.3.17.a, Specs Part A)	14	03-Mar-21	16-Mar-21	08-May-21	21-May-21	157
O2_D4960a	ER Consented Pump Room, Drawpit & Ducting (Clause 5.4.3.17.a, Specs Part A)	0		16-Mar-21		21-May-21	157
O2_D4965a	Submit Two Complete Sets Pump Room, Drawpit & Ducting to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	17-Mar-21	23-Mar-21	22-May-21	28-May-21	157
O2_D4970a	Design Registered - Pump Room, Drawpit & Ducting	7	24-Mar-21	30-Mar-21	29-May-21	04-Jun-21	157
C3.19d - ENTRANCE GATE, BOUNDARY FENCE & ENTRANCE PORTAL		244	02-Apr-20	30-Mar-21	02-Apr-20 A	04-Jun-21	415
SUBMISSION		244	02-Apr-20	01-Dec-20	02-Apr-20 A	05-Feb-21	415
O2_D5000a	Entrance Gate, Boundary Fence & Entrance Portal (EG, BF & EP) (Clause 5.4.3.9, Specs Part A) *	244	02-Apr-20	01-Dec-20	02-Apr-20 A	05-Feb-21	415
IC CHECKING & CERTIFICATION		63	02-Dec-20	02-Feb-21	06-Feb-21	09-Apr-21	415
O2_D5010a	IC Comment on the submitted EG, BF & EP (Clause 5.4.3.9, Specs Part A)	14	02-Dec-20	15-Dec-20	06-Feb-21	19-Feb-21	415
O2_D5015a	Submit further information for the submitted EG, BF & EP to IC (Clause 5.4.3.9, Specs Part A)	7	16-Dec-20	22-Dec-20	20-Feb-21	26-Feb-21	415
O2_D5020a	IC Comment on the re-submitted EG, BF & EP (Clause 5.4.3.9, Specs Part A)	14	23-Dec-20	05-Jan-21	27-Feb-21	12-Mar-21	415
O2_D5025a	Submit further information for the re-submitted EG, BF & EP to IC (Clause 5.4.3.9, Specs Part A)	7	06-Jan-21	12-Jan-21	13-Mar-21	19-Mar-21	415
O2_D5030a	IC Certify EG, BF & EP (Clause 5.4.3.9, Specs Part A)	14	13-Jan-21	26-Jan-21	20-Mar-21	02-Apr-21	415
O2_D5035a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	27-Jan-21	02-Feb-21	03-Apr-21	09-Apr-21	415
EMPLOYER's CONSENT		56	03-Feb-21	30-Mar-21	10-Apr-21	04-Jun-21	415
O2_D5040a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	03-Feb-21	09-Feb-21	10-Apr-21	16-Apr-21	415
O2_D5045a	ER Comment on the submitted EG, BF & EP (Clause 5.4.3.17.c, Specs Part A)	14	10-Feb-21	23-Feb-21	17-Apr-21	30-Apr-21	415
O2_D5050a	Submit further information for the submitted EG, BF & EP to ER (Clause 5.4.3.19, Specs Part A)	7	24-Feb-21	02-Mar-21	01-May-21	07-May-21	415
O2_D5055a	ER Comment on the re-submitted EG, BF & EP (Clause 5.4.3.17.a, Specs Part A)	14	03-Mar-21	16-Mar-21	08-May-21	21-May-21	415
O2_D5060a	ER Consented EG, BF & EP (Clause 5.4.3.17.a, Specs Part A)	0		16-Mar-21		21-May-21	415
O2_D5065a	Submit Two Complete Sets EG, BF & EP to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	17-Mar-21	23-Mar-21	22-May-21	28-May-21	415
O2_D5070a	Design Registered - Entrance Gate, Boundary Fence & Entrance Portal	7	24-Mar-21	30-Mar-21	29-May-21	04-Jun-21	415
C4 - BUILDING SERVICES		250	01-Jul-20	10-May-21	04-May-20 A	03-Jun-21	430
C4.1 - BS- ELECTRICAL SERVICES		81	25-Jan-21	04-May-21	01-Sep-20 A	04-May-21	59
IC CHECKING & CERTIFICATION		25	25-Jan-21	09-Mar-21	01-Sep-20 A	09-Mar-21	59
O2_C41130	Submit further information for the re-submitted Electrical Services to IC (Clause 5.4.3.9, Specs A)	23	25-Jan-21	16-Feb-21	01-Sep-20 A	16-Feb-21	59
O2_C41140	IC Certify Electrical Services (Clause 5.4.3.9, Specs A)	14	17-Feb-21	02-Mar-21	17-Feb-21	02-Mar-21	59
O2_C41150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	03-Mar-21	09-Mar-21	03-Mar-21	09-Mar-21	59
EMPLOYER's CONSENT		56	10-Mar-21	04-May-21	10-Mar-21	04-May-21	59
O2_C41200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	10-Mar-21	16-Mar-21	10-Mar-21	16-Mar-21	59
O2_C41210	ER Comment on the submitted Electrical Services (Clause 5.4.3.17.c, Specs A)	14	17-Mar-21	30-Mar-21	17-Mar-21	30-Mar-21	59
O2_C41220	Submit further information for the submitted Electrical Services to ER (Clause 5.4.3.19, Specs A)	7	31-Mar-21	06-Apr-21	31-Mar-21	06-Apr-21	59
O2_C41230	ER Comment on the re-submitted Electrical Services (Clause 5.4.3.17.a, Specs A)	14	07-Apr-21	20-Apr-21	07-Apr-21	20-Apr-21	59



AJA JOINT VENTURE

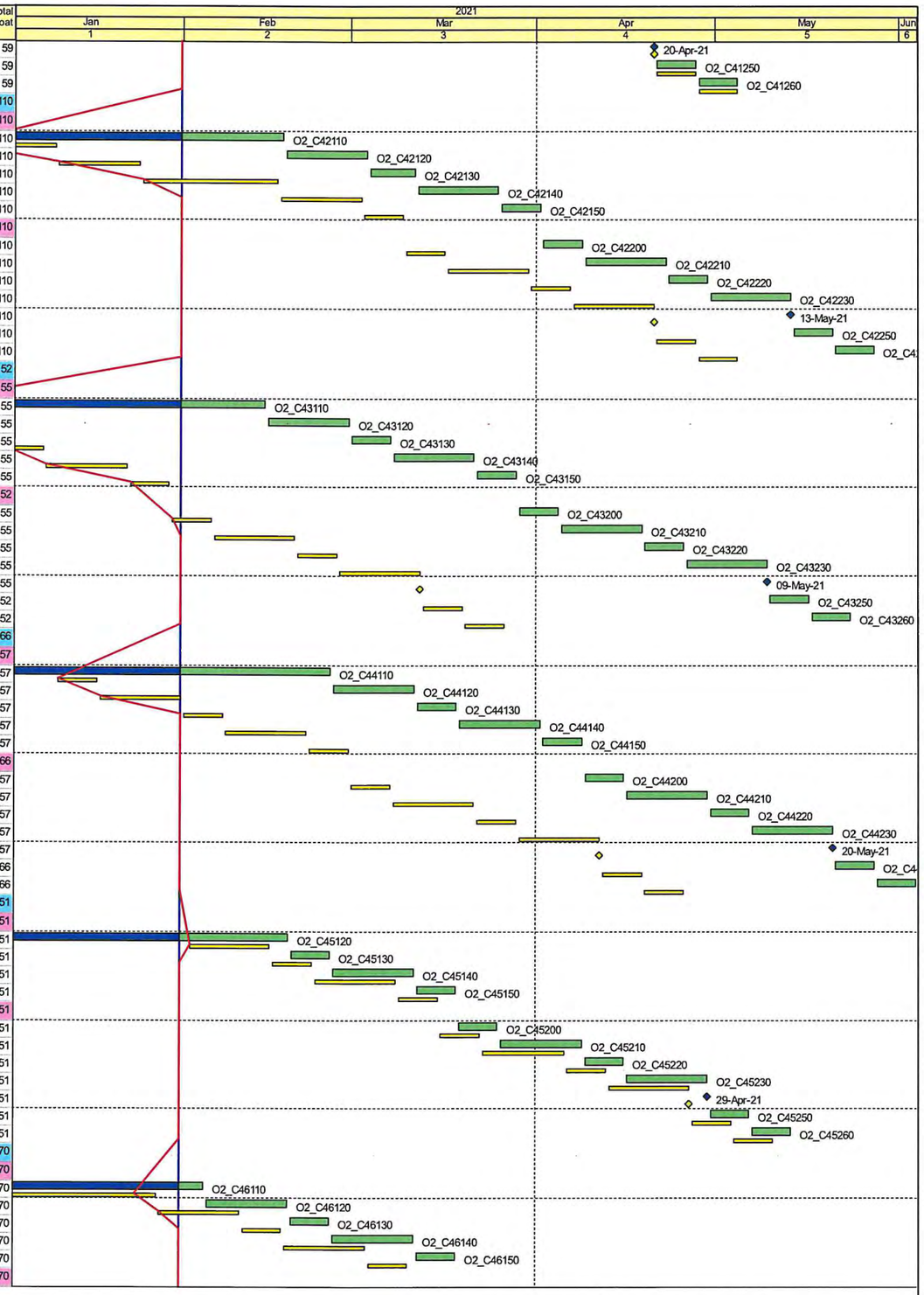
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_C41240	ER Consented Electrical Services (Clause 5.4.3.17.a, Specs A)	0		20-Apr-21		20-Apr-21	59
O2_C41250	Submit Two Complete Sets Electrical Services to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	21-Apr-21	27-Apr-21	21-Apr-21	27-Apr-21	59
O2_C41260	Design Registered - Electrical Services	7	28-Apr-21	04-May-21	28-Apr-21	04-May-21	59
C4.2 - BS- MECHANICAL VENTILATION & AIR-CONDITIONING		**104**	**12-Dec-20**	**04-May-21**	**30-Jun-20 A**	**27-May-21**	**110**
IC CHECKING & CERTIFICATION		**48**	**12-Dec-20**	**09-Mar-21**	**30-Jun-20 A**	**01-Apr-21**	**110**
O2_C42110	Submit further information for the submitted Mechanical Ventilation & Air-Conditioning to IC (Clause 5.4.3.9, Specs A)	30	12-Dec-20	10-Jan-21	30-Jun-20 A	17-Feb-21	110
O2_C42120	IC Comment on the re-submitted Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.9, Specs A)	14	11-Jan-21	24-Jan-21	18-Feb-21	03-Mar-21	110
O2_C42130	Submit further information for the re-submitted Mech Ventilation & Air-Conditioning to IC (Clause 5.4.3.9, Specs A)	8	25-Jan-21	16-Feb-21	04-Mar-21	11-Mar-21	110
O2_C42140	IC Certify Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.9, Specs A)	14	17-Feb-21	02-Mar-21	12-Mar-21	25-Mar-21	110
O2_C42150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	03-Mar-21	09-Mar-21	26-Mar-21	01-Apr-21	110
EMPLOYER's CONSENT		**56**	**10-Mar-21**	**04-May-21**	**02-Apr-21**	**27-May-21**	**110**
O2_C42200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	10-Mar-21	16-Mar-21	02-Apr-21	08-Apr-21	110
O2_C42210	ER Comment on the submitted Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.17.c, Specs A)	14	17-Mar-21	30-Mar-21	09-Apr-21	22-Apr-21	110
O2_C42220	Submit further information for the submitted Mechanical Ventilation & Air-Conditioning to ER (Clause 5.4.3.19, Specs A)	7	31-Mar-21	06-Apr-21	23-Apr-21	29-Apr-21	110
O2_C42230	ER Comment on the re-submitted Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.17.a, Specs A)	14	07-Apr-21	20-Apr-21	30-Apr-21	13-May-21	110
O2_C42240	ER Consented Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.17.a, Specs A)	0		20-Apr-21		13-May-21	110
O2_C42250	Submit Two Complete Sets Mech Ventilation & Air-Conditioning to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	21-Apr-21	27-Apr-21	14-May-21	20-May-21	110
O2_C42260	Design Registered - Mechanical Ventilation & Air-Conditioning	7	28-Apr-21	04-May-21	21-May-21	27-May-21	110
C4.3 - BS- FIRE SERVICES		**130**	**12-Dec-20**	**26-Mar-21**	**29-Jul-20 A**	**23-May-21**	**152**
IC CHECKING & CERTIFICATION		**74**	**12-Dec-20**	**29-Jan-21**	**29-Jul-20 A**	**28-Mar-21**	**55**
O2_C43110	Submit further information for the submitted Fire Services to IC (Clause 5.4.3.9, Specs A)	7	12-Dec-20	18-Dec-20	29-Jul-20 A	14-Feb-21	55
O2_C43120	IC Comment on the re-submitted Fire Services (Clause 5.4.3.9, Specs A)	14	19-Dec-20	01-Jan-21	15-Feb-21	28-Feb-21	55
O2_C43130	Submit further information for the re-submitted Fire Services to IC (Clause 5.4.3.9, Specs A)	7	02-Jan-21	08-Jan-21	01-Mar-21	07-Mar-21	55
O2_C43140	IC Certify Fire Services (Clause 5.4.3.9, Specs A)	14	09-Jan-21	22-Jan-21	08-Mar-21	21-Mar-21	55
O2_C43150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	23-Jan-21	29-Jan-21	22-Mar-21	28-Mar-21	55
EMPLOYER's CONSENT		**56**	**30-Jan-21**	**26-Mar-21**	**29-Mar-21**	**23-May-21**	**152**
O2_C43200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	30-Jan-21	05-Feb-21	29-Mar-21	04-Apr-21	55
O2_C43210	ER Comment on the submitted Fire Services (Clause 5.4.3.17.c, Specs A)	14	06-Feb-21	19-Feb-21	05-Apr-21	18-Apr-21	55
O2_C43220	Submit further information for the submitted Fire Services to ER (Clause 5.4.3.19, Specs A)	7	20-Feb-21	26-Feb-21	19-Apr-21	25-Apr-21	55
O2_C43230	ER Comment on the re-submitted Fire Services (Clause 5.4.3.17.a, Specs A)	14	27-Feb-21	12-Mar-21	26-Apr-21	09-May-21	55
O2_C43240	ER Consented Fire Services (Clause 5.4.3.17.a, Specs A)	0		12-Mar-21		09-May-21	55
O2_C43250	Submit Two Complete Sets Fire Services to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	13-Mar-21	19-Mar-21	10-May-21	16-May-21	152
O2_C43260	Design Registered - Fire Services	7	20-Mar-21	26-Mar-21	17-May-21	23-May-21	152
C4.4 - BS- PLUMBING & DRAINAGE		**144**	**11-Jan-21**	**25-Apr-21**	**29-Jul-20 A**	**03-Jun-21**	**166**
IC CHECKING & CERTIFICATION		**144**	**11-Jan-21**	**28-Feb-21**	**29-Jul-20 A**	**08-Apr-21**	**157**
O2_C44110	Submit further information for the submitted Plumbing & Drainage to IC (Clause 5.4.3.9, Specs A)	7	11-Jan-21	17-Jan-21	29-Jul-20 A	25-Feb-21	157
O2_C44120	IC Comment on the re-submitted Plumbing & Drainage (Clause 5.4.3.9, Specs A)	14	18-Jan-21	31-Jan-21	26-Feb-21	11-Mar-21	157
O2_C44130	Submit further information for the re-submitted Plumbing & Drainage to IC (Clause 5.4.3.9, Specs A)	7	01-Feb-21	07-Feb-21	12-Mar-21	18-Mar-21	157
O2_C44140	IC Certify Plumbing & Drainage (Clause 5.4.3.9, Specs A)	14	08-Feb-21	21-Feb-21	19-Mar-21	01-Apr-21	157
O2_C44150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	22-Feb-21	28-Feb-21	02-Apr-21	08-Apr-21	157
EMPLOYER's CONSENT		**56**	**01-Mar-21**	**25-Apr-21**	**09-Apr-21**	**03-Jun-21**	**166**
O2_C44200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	01-Mar-21	07-Mar-21	09-Apr-21	15-Apr-21	157
O2_C44210	ER Comment on the submitted Plumbing & Drainage (Clause 5.4.3.17.c, Specs A)	14	08-Mar-21	21-Mar-21	16-Apr-21	29-Apr-21	157
O2_C44220	Submit further information for the submitted Plumbing & Drainage to ER (Clause 5.4.3.19, Specs A)	7	22-Mar-21	28-Mar-21	30-Apr-21	06-May-21	157
O2_C44230	ER Comment on the re-submitted Plumbing & Drainage (Clause 5.4.3.17.a, Specs A)	14	29-Mar-21	11-Apr-21	07-May-21	20-May-21	157
O2_C44240	ER Consented Plumbing & Drainage (Clause 5.4.3.17.a, Specs A)	0		11-Apr-21		20-May-21	157
O2_C44250	Submit Two Complete Sets Plumbing & Drainage to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	12-Apr-21	18-Apr-21	21-May-21	27-May-21	166
O2_C44260	Design Registered - Plumbing & Drainage	7	19-Apr-21	25-Apr-21	28-May-21	03-Jun-21	166
C4.5 - AUTOMATIC IRRIGATION SYSTEM		**180**	**02-Feb-21**	**10-May-21**	**22-Dec-20 A**	**13-May-21**	**451**
IC CHECKING & CERTIFICATION		**180**	**02-Feb-21**	**15-Mar-21**	**22-Dec-20 A**	**18-Mar-21**	**451**
O2_C45120	IC Comment on the re-submitted Automatic Irrigation System (Clause 5.4.3.9, Specs A)	14	02-Feb-21	15-Feb-21	22-Dec-20 A	18-Feb-21	451
O2_C45130	Submit further information for the re-submitted Automatic Irrigation System to IC (Clause 5.4.3.9, Specs A)	7	16-Feb-21	22-Feb-21	19-Feb-21	25-Feb-21	451
O2_C45140	IC Certify Automatic Irrigation System (Clause 5.4.3.9, Specs A)	14	23-Feb-21	08-Mar-21	26-Feb-21	11-Mar-21	451
O2_C45150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	09-Mar-21	15-Mar-21	12-Mar-21	18-Mar-21	451
EMPLOYER's CONSENT		**56**	**16-Mar-21**	**10-May-21**	**19-Mar-21**	**13-May-21**	**451**
O2_C45200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	16-Mar-21	22-Mar-21	19-Mar-21	25-Mar-21	451
O2_C45210	ER Comment on the submitted Automatic Irrigation System (Clause 5.4.3.17.c, Specs A)	14	23-Mar-21	05-Apr-21	26-Mar-21	08-Apr-21	451
O2_C45220	Submit further information for the submitted Automatic Irrigation System to ER (Clause 5.4.3.19, Specs A)	7	06-Apr-21	12-Apr-21	09-Apr-21	15-Apr-21	451
O2_C45230	ER Comment on the re-submitted Automatic Irrigation System (Clause 5.4.3.17.a, Specs A)	14	13-Apr-21	26-Apr-21	16-Apr-21	29-Apr-21	451
O2_C45240	ER Consented Automatic Irrigation System (Clause 5.4.3.17.a, Specs A)	0		26-Apr-21		29-Apr-21	451
O2_C45250	Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	27-Apr-21	03-May-21	30-Apr-21	06-May-21	451
O2_C45260	Design Registered - Automatic Irrigation System	7	04-May-21	10-May-21	07-May-21	13-May-21	451
C4.6 - BS- ELV (INCLUDING CCTV, PA, BMS, SECURITY, ET C.)		**151**	**06-Dec-20**	**05-May-21**	**22-Dec-20 A**	**13-May-21**	**170**
IC CHECKING & CERTIFICATION		**151**	**06-Dec-20**	**10-Mar-21**	**22-Dec-20 A**	**18-Mar-21**	**170**
O2_C46110	Submit further information for the submitted ELV to IC (Clause 5.4.3.9, Specs A)	53	06-Dec-20	27-Jan-21	22-Dec-20 A	04-Feb-21	170
O2_C46120	IC Comment on the re-submitted ELV (Clause 5.4.3.9, Specs A)	14	28-Jan-21	10-Feb-21	05-Feb-21	18-Feb-21	170
O2_C46130	Submit further information for the re-submitted ELV to IC (Clause 5.4.3.9, Specs A)	7	11-Feb-21	17-Feb-21	19-Feb-21	25-Feb-21	170
O2_C46140	IC Certify ELV (Clause 5.4.3.9, Specs A)	14	18-Feb-21	03-Mar-21	26-Feb-21	11-Mar-21	170
O2_C46150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	04-Mar-21	10-Mar-21	12-Mar-21	18-Mar-21	170
EMPLOYER's CONSENT		**56**	**11-Mar-21**	**05-May-21**	**19-Mar-21**	**13-May-21**	**170**



AJA JOINT VENTURE

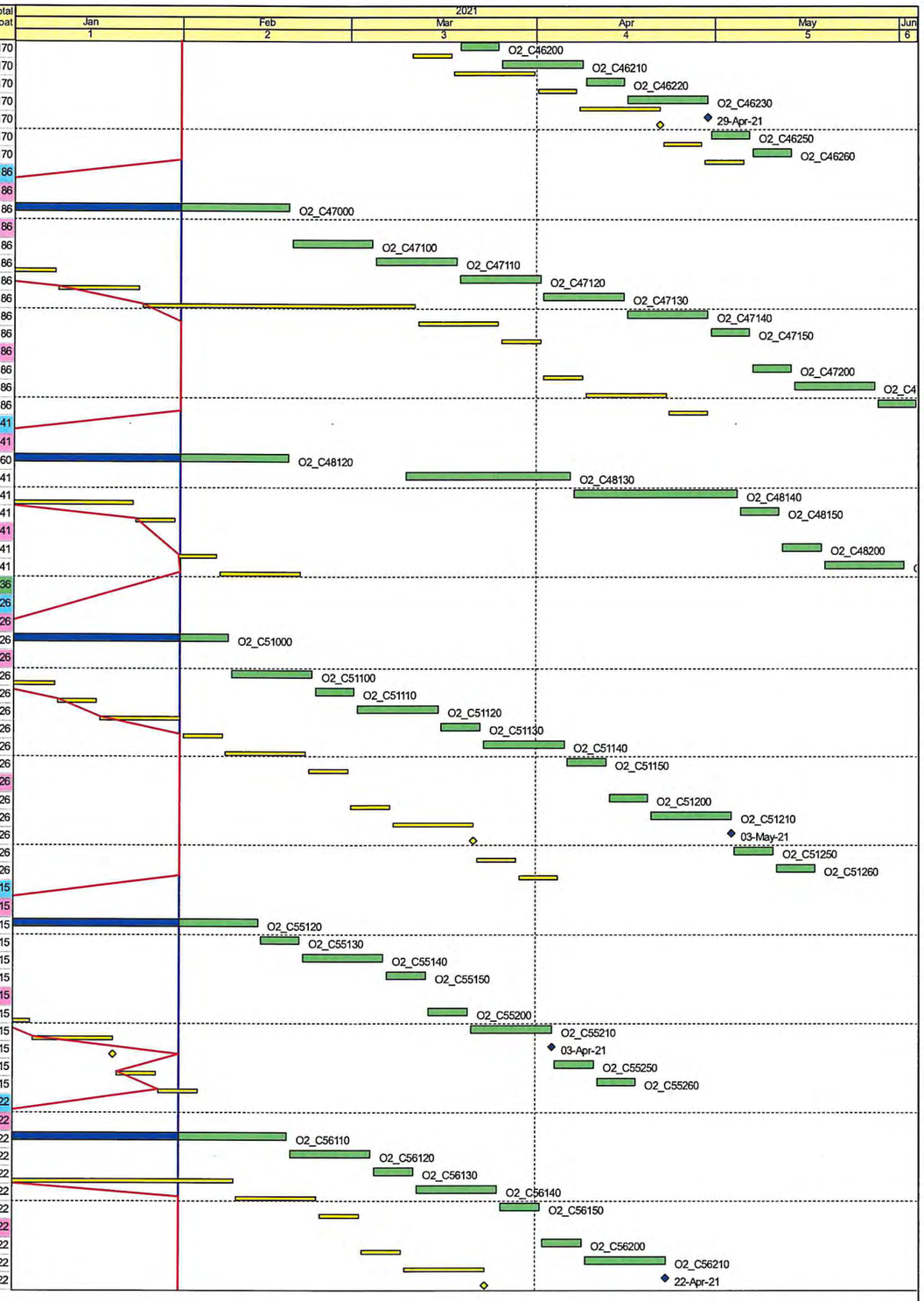
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_C46200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	11-Mar-21	17-Mar-21	19-Mar-21	25-Mar-21	170
O2_C46210	ER Comment on the submitted ELV (Clause 5.4.3.17.c, Specs A)	14	18-Mar-21	31-Mar-21	26-Mar-21	08-Apr-21	170
O2_C46220	Submit further information for the submitted ELV to ER (Clause 5.4.3.19, Specs A)	7	01-Apr-21	07-Apr-21	09-Apr-21	15-Apr-21	170
O2_C46230	ER Comment on the re-submitted ELV (Clause 5.4.3.17.a, Specs A)	14	08-Apr-21	21-Apr-21	16-Apr-21	29-Apr-21	170
O2_C46240	ER Consented ELV (Clause 5.4.3.17.a, Specs A)	0		21-Apr-21		29-Apr-21	170
O2_C46250	Submit Two Complete Sets ELV to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	22-Apr-21	28-Apr-21	30-Apr-21	06-May-21	170
O2_C46260	Design Registered - ELV	7	29-Apr-21	05-May-21	07-May-21	13-May-21	170
C4.7 - SURPLUS ENERGY EXPORT SYSTEM		155	01-Jul-20	29-Apr-21	04-May-20 A	03-Jun-21	186
SUBMISSION		150	01-Jul-20	27-Nov-20	04-May-20 A	18-Feb-21	186
O2_C47000	Surplus Energy Export System (Clause 5.4.3.9, Specs A)	150	01-Jul-20	27-Nov-20	04-May-20 A	18-Feb-21	186
IC CHECKING & CERTIFICATION		77	28-Nov-20	01-Apr-21	19-Feb-21	06-May-21	186
O2_C47100	IC Comment on the submitted Surplus Energy Export System (Clause 5.4.3.9, Specs A)	14	28-Nov-20	11-Dec-20	19-Feb-21	04-Mar-21	186
O2_C47110	Submit further information for the submitted Surplus Energy Export System to IC (Clause 5.4.3.9, Specs A)	14	12-Dec-20	10-Jan-21	05-Mar-21	18-Mar-21	186
O2_C47120	IC Comment on the re-submitted Surplus Energy Export System (Clause 5.4.3.9, Specs A)	14	11-Jan-21	24-Jan-21	19-Mar-21	01-Apr-21	186
O2_C47130	Submit further information for the re-submitted Surplus Energy Export System to IC (Clause 5.4.3.9, Specs A)	14	25-Jan-21	11-Mar-21	02-Apr-21	15-Apr-21	186
O2_C47140	IC Certify Surplus Energy Export System (Clause 5.4.3.9, Specs A)	14	12-Mar-21	25-Mar-21	16-Apr-21	29-Apr-21	186
O2_C47150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	26-Mar-21	01-Apr-21	30-Apr-21	06-May-21	186
EMPLOYER's CONSENT		28	02-Apr-21	29-Apr-21	07-May-21	03-Jun-21	186
O2_C47200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	02-Apr-21	08-Apr-21	07-May-21	13-May-21	186
O2_C47210	ER Comment on the submitted Surplus Energy Export System (Clause 5.4.3.17.c, Specs A)	14	09-Apr-21	22-Apr-21	14-May-21	27-May-21	186
O2_C47220	Submit further information for the submitted Surplus Energy Export System to ER (Clause 5.4.3.19, Specs A)	7	23-Apr-21	29-Apr-21	28-May-21	03-Jun-21	186
C4.8 - LIFT		181	01-Nov-20	20-Feb-21	11-Nov-20 A	01-Jun-21	41
IC CHECKING & CERTIFICATION		181	01-Nov-20	30-Jan-21	11-Nov-20 A	11-May-21	41
O2_C48120	IC Comment on the re-submitted Lift (Clause 5.4.3.9, Specs A)	28	01-Nov-20	28-Nov-20	11-Nov-20 A	18-Feb-21	60
O2_C48130	Submit further information for the re-submitted Lift to IC (Clause 5.4.3.9, Specs A)	28	29-Nov-20	26-Dec-20	10-Mar-21	06-Apr-21	41
O2_C48140	IC Certify Lift (Clause 5.4.3.9, Specs A)	28	27-Dec-20	23-Jan-21	07-Apr-21	04-May-21	41
O2_C48150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	24-Jan-21	30-Jan-21	05-May-21	11-May-21	41
EMPLOYER's CONSENT		21	31-Jan-21	20-Feb-21	12-May-21	01-Jun-21	41
O2_C48200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	31-Jan-21	06-Feb-21	12-May-21	18-May-21	41
O2_C48210	ER Comment on the submitted Lift (Clause 5.4.3.17.c, Specs A)	14	07-Feb-21	20-Feb-21	19-May-21	01-Jun-21	41
C5 - E&M PROCESS		235	01-Jul-20	21-Aug-21	01-Jul-20 A	22-Jul-21	536
C5.1 - WASTE ARRIVAL AND EXIT (WEIGHBRIDGE, TRUCK WASHING, TRAFFIC CONTROL)		180	01-Jul-20	04-Apr-21	01-Jul-20 A	17-May-21	126
SUBMISSION		180	01-Jul-20	27-Dec-20	01-Jul-20 A	08-Feb-21	126
O2_C51000	Waste Arrival and Exit (Clause 5.4.3.9, Specs A)	180	01-Jul-20	27-Dec-20	01-Jul-20 A	08-Feb-21	126
IC CHECKING & CERTIFICATION		63	28-Dec-20	28-Feb-21	09-Feb-21	12-Apr-21	126
O2_C51100	IC Comment on the submitted Waste Arrival and Exit (Clause 5.4.3.9, Specs A)	14	28-Dec-20	10-Jan-21	09-Feb-21	22-Feb-21	126
O2_C51110	Submit further information for the submitted Waste Arrival and Exit to IC (Clause 5.4.3.9, Specs A)	7	11-Jan-21	17-Jan-21	23-Feb-21	01-Mar-21	126
O2_C51120	IC Comment on the re-submitted Waste Arrival and Exit (Clause 5.4.3.9, Specs A)	14	18-Jan-21	31-Jan-21	02-Mar-21	15-Mar-21	126
O2_C51130	Submit further information for the re-submitted Waste Arrival and Exit to IC (Clause 5.4.3.9, Specs A)	7	01-Feb-21	07-Feb-21	16-Mar-21	22-Mar-21	126
O2_C51140	IC Certify Waste Arrival and Exit (Clause 5.4.3.9, Specs A)	14	08-Feb-21	21-Feb-21	23-Mar-21	05-Apr-21	126
O2_C51150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	22-Feb-21	28-Feb-21	06-Apr-21	12-Apr-21	126
EMPLOYER's CONSENT		35	01-Mar-21	04-Apr-21	13-Apr-21	17-May-21	126
O2_C51200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	01-Mar-21	07-Mar-21	13-Apr-21	19-Apr-21	126
O2_C51210	ER Comment on the submitted Waste Arrival and Exit (Clause 5.4.3.17.c, Specs A)	14	08-Mar-21	21-Mar-21	20-Apr-21	03-May-21	126
O2_C51240	ER Consented Waste Arrival and Exit (Clause 5.4.3.17.a, Specs A)	0		21-Mar-21		03-May-21	126
O2_C51250	Submit Two Complete Sets Waste Arrival and Exit to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	22-Mar-21	28-Mar-21	04-May-21	10-May-21	126
O2_C51260	Design Registered - Waste Arrival and Exit	7	29-Mar-21	04-Apr-21	11-May-21	17-May-21	126
C5.5 - BIOGAS CLEANING & STORAGE SYSTEM AND EMERGENCY FLARE		88	19-Nov-20	03-Feb-21	30-Dec-20 A	17-Apr-21	215
IC CHECKING & CERTIFICATION		53	19-Nov-20	30-Dec-20	30-Dec-20 A	13-Mar-21	215
O2_C55120	IC Comment on the re-submitted Biogas System & Flare (Clause 5.4.3.9, Specs A)	14	19-Nov-20	02-Dec-20	30-Dec-20 A	13-Feb-21	215
O2_C55130	Submit further information for the re-submitted Biogas System & Flare to IC (Clause 5.4.3.9, Specs A)	7	03-Dec-20	09-Dec-20	14-Feb-21	20-Feb-21	215
O2_C55140	IC Certify Biogas System & Flare (Clause 5.4.3.9, Specs A)	14	10-Dec-20	23-Dec-20	21-Feb-21	06-Mar-21	215
O2_C55150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	24-Dec-20	30-Dec-20	07-Mar-21	13-Mar-21	215
EMPLOYER's CONSENT		35	31-Dec-20	03-Feb-21	14-Mar-21	17-Apr-21	215
O2_C55200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	31-Dec-20	06-Jan-21	14-Mar-21	20-Mar-21	215
O2_C55210	ER Comment on the submitted Biogas System & Flare (Clause 5.4.3.17.c, Specs A)	14	07-Jan-21	20-Jan-21	21-Mar-21	03-Apr-21	215
O2_C55240	ER Consented Biogas System & Flare (Clause 5.4.3.17.a, Specs A)	0		20-Jan-21		03-Apr-21	215
O2_C55250	Submit Two Complete Sets Biogas System & Flare to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	21-Jan-21	27-Jan-21	04-Apr-21	10-Apr-21	215
O2_C55260	Design Registered - Biogas System & Flare	7	28-Jan-21	03-Feb-21	11-Apr-21	17-Apr-21	215
C5.6 - ENERGY RECOVERY AND CHP		77	12-Nov-20	06-Apr-21	25-Nov-20 A	06-May-21	22
IC CHECKING & CERTIFICATION		42	12-Nov-20	02-Mar-21	25-Nov-20 A	01-Apr-21	22
O2_C56110	Submit further information for the submitted CHP to IC (Clause 5.4.3.9, Specs A)	7	12-Nov-20	11-Dec-20	25-Nov-20 A	18-Feb-21	22
O2_C56120	IC Comment on the re-submitted CHP (Clause 5.4.3.9, Specs A)	14	12-Dec-20	25-Dec-20	19-Feb-21	04-Mar-21	22
O2_C56130	Submit further information for the re-submitted CHP to IC (Clause 5.4.3.9, Specs A)	7	26-Dec-20	09-Feb-21	05-Mar-21	11-Mar-21	22
O2_C56140	IC Certify CHP (Clause 5.4.3.9, Specs A)	14	10-Feb-21	23-Feb-21	12-Mar-21	25-Mar-21	22
O2_C56150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	24-Feb-21	02-Mar-21	26-Mar-21	01-Apr-21	22
EMPLOYER's CONSENT		35	03-Mar-21	06-Apr-21	02-Apr-21	06-May-21	22
O2_C56200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	03-Mar-21	09-Mar-21	02-Apr-21	08-Apr-21	22
O2_C56210	ER Comment on the submitted Energy Recovery and CHP (Clause 5.4.3.17.c, Specs A)	14	10-Mar-21	23-Mar-21	09-Apr-21	22-Apr-21	22
O2_C56220	ER Consented Energy Recovery and CHP (Clause 5.4.3.17.a, Specs A)	0		23-Mar-21		22-Apr-21	22



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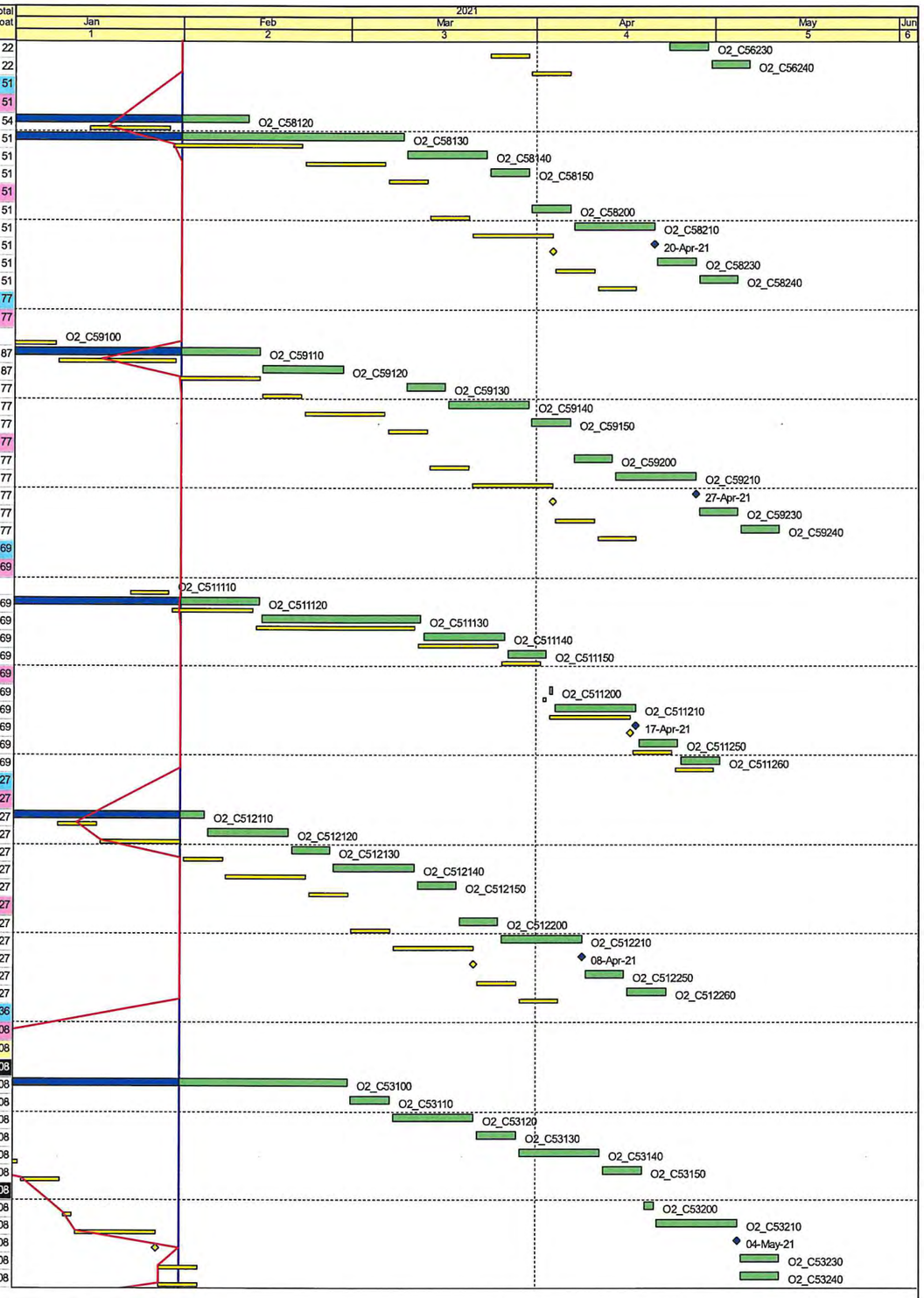
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_C56230	Submit Two Complete Sets Energy Recovery and CHP to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	24-Mar-21	30-Mar-21	23-Apr-21	29-Apr-21	22
O2_C56240	Design Registered - Energy Recovery and CHP	7	31-Mar-21	06-Apr-21	30-Apr-21	06-May-21	22
C5.8 - WASTEWATER TREATMENT PLANT		166	16-Jan-21	17-Apr-21	18-Sep-20 A	04-May-21	51
IC CHECKING & CERTIFICATION		166	16-Jan-21	13-Mar-21	18-Sep-20 A	30-Mar-21	51
O2_C58120	IC Comment on the re-submitted Wastewater Treatment Plant (Clause 5.4.3.9, Specs A)	14	16-Jan-21	29-Jan-21	18-Sep-20 A	11-Feb-21	54
O2_C58130	Submit further information for the re-submitted Wastewater Treatment Plant to IC (Clause 5.4.3.9, Specs A)	22	30-Jan-21	20-Feb-21	10-Nov-20 A	09-Mar-21	51
O2_C58140	IC Certify Wastewater Treatment Plant (Clause 5.4.3.9, Specs A)	14	21-Feb-21	06-Mar-21	10-Mar-21	23-Mar-21	51
O2_C58150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	07-Mar-21	13-Mar-21	24-Mar-21	30-Mar-21	51
EMPLOYER's CONSENT		35	14-Mar-21	17-Apr-21	31-Mar-21	04-May-21	51
O2_C58200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	14-Mar-21	20-Mar-21	31-Mar-21	06-Apr-21	51
O2_C58210	ER Comment on the submitted Wastewater Treatment Plant (Clause 5.4.3.17.c, Specs A)	14	21-Mar-21	03-Apr-21	07-Apr-21	20-Apr-21	51
O2_C58220	ER Consented Wastewater Treatment Plant (Clause 5.4.3.17.a, Specs A)	0		03-Apr-21		20-Apr-21	51
O2_C58230	Submit Two Complete Sets Wastewater Treatment Plant to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	04-Apr-21	10-Apr-21	21-Apr-21	27-Apr-21	51
O2_C58240	Design Registered - Wastewater Treatment Plant	7	11-Apr-21	17-Apr-21	28-Apr-21	04-May-21	51
C5.9 - CENTRALISED AIR POLLUTION CONTROL SYSTEM		162	28-Dec-20	17-Apr-21	05-Dec-20 A	11-May-21	77
IC CHECKING & CERTIFICATION		162	28-Dec-20	13-Mar-21	05-Dec-20 A	06-Apr-21	77
O2_C59100	IC Comment on the submitted CAPC System (Clause 5.4.3.9, Specs A)	14	28-Dec-20	10-Jan-21	05-Dec-20 A	30-Dec-20 A	
O2_C59110	Submit further information for the submitted CAPC System to IC (Clause 5.4.3.9, Specs A)	44	11-Jan-21	30-Jan-21	31-Dec-20 A	13-Feb-21	87
O2_C59120	IC Comment on the re-submitted CAPC System (Clause 5.4.3.9, Specs A)	14	31-Jan-21	13-Feb-21	14-Feb-21	27-Feb-21	87
O2_C59130	Submit further information for the re-submitted CAPC System to IC (Clause 5.4.3.9, Specs A)	7	14-Feb-21	20-Feb-21	10-Mar-21	16-Mar-21	77
O2_C59140	IC Certify CAPC System (Clause 5.4.3.9, Specs A)	14	21-Feb-21	06-Mar-21	17-Mar-21	30-Mar-21	77
O2_C59150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	07-Mar-21	13-Mar-21	31-Mar-21	06-Apr-21	77
EMPLOYER's CONSENT		35	14-Mar-21	17-Apr-21	07-Apr-21	11-May-21	77
O2_C59200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	14-Mar-21	20-Mar-21	07-Apr-21	13-Apr-21	77
O2_C59210	ER Comment on the submitted CAPC System (Clause 5.4.3.17.c, Specs A)	14	21-Mar-21	03-Apr-21	14-Apr-21	27-Apr-21	77
O2_C59220	ER Consented CAPC System (Clause 5.4.3.17.a, Specs A)	0		03-Apr-21		27-Apr-21	77
O2_C59230	Submit Two Complete Sets CAPC System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	04-Apr-21	10-Apr-21	28-Apr-21	04-May-21	77
O2_C59240	Design Registered - CAPC System	7	11-Apr-21	17-Apr-21	05-May-21	11-May-21	77
C5.11 - ELECTRICAL WORKS (PROCESS)		152	23-Jan-21	30-Apr-21	17-Dec-20 A	01-May-21	69
IC CHECKING & CERTIFICATION		152	23-Jan-21	01-Apr-21	17-Dec-20 A	02-Apr-21	69
O2_C511110	Submit further information for the submitted Electrical Works to IC (Clause 5.4.3.9, Specs A)	7	23-Jan-21	29-Jan-21	17-Dec-20 A	29-Dec-20 A	
O2_C511120	IC Comment on the re-submitted Electrical Works (Clause 5.4.3.9, Specs A)	14	30-Jan-21	12-Feb-21	30-Dec-20 A	13-Feb-21	69
O2_C511130	Submit further information for the re-submitted Electrical Works to IC (Clause 5.4.3.9, Specs A)	27	13-Feb-21	11-Mar-21	14-Feb-21	12-Mar-21	69
O2_C511140	IC Certify Electrical Works (Clause 5.4.3.9, Specs A)	14	12-Mar-21	25-Mar-21	13-Mar-21	26-Mar-21	69
O2_C511150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	26-Mar-21	01-Apr-21	27-Mar-21	02-Apr-21	69
EMPLOYER's CONSENT		29	02-Apr-21	30-Apr-21	03-Apr-21	01-May-21	69
O2_C511200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	1	02-Apr-21	02-Apr-21	03-Apr-21	03-Apr-21	69
O2_C511210	ER Comment on the submitted Electrical Works (Clause 5.4.3.17.c, Specs A)	14	03-Apr-21	16-Apr-21	04-Apr-21	17-Apr-21	69
O2_C511240	ER Consented Electrical Works (Clause 5.4.3.17.a, Specs A)	0		16-Apr-21		17-Apr-21	69
O2_C511250	Submit Two Complete Sets Electrical Works to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	17-Apr-21	23-Apr-21	18-Apr-21	24-Apr-21	69
O2_C511260	Design Registered - Electrical Works	7	24-Apr-21	30-Apr-21	25-Apr-21	01-May-21	69
C5.12 - LIFTING APPLIANCE		112	11-Jan-21	04-Apr-21	17-Dec-20 A	22-Apr-21	27
IC CHECKING & CERTIFICATION		77	11-Jan-21	28-Feb-21	17-Dec-20 A	18-Mar-21	27
O2_C512110	Submit further information for the submitted Lifting Appliance to IC (Clause 5.4.3.9, Specs A)	29	11-Jan-21	17-Jan-21	17-Dec-20 A	04-Feb-21	27
O2_C512120	IC Comment on the re-submitted Lifting Appliance (Clause 5.4.3.9, Specs A)	14	18-Jan-21	31-Jan-21	05-Feb-21	18-Feb-21	27
O2_C512130	Submit further information for the re-submitted Lifting Appliance to IC (Clause 5.4.3.9, Specs A)	7	01-Feb-21	07-Feb-21	19-Feb-21	25-Feb-21	27
O2_C512140	IC Certify Lifting Appliance (Clause 5.4.3.9, Specs A)	14	08-Feb-21	21-Feb-21	26-Feb-21	11-Mar-21	27
O2_C512150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	22-Feb-21	28-Feb-21	12-Mar-21	18-Mar-21	27
EMPLOYER's CONSENT		35	01-Mar-21	04-Apr-21	19-Mar-21	22-Apr-21	27
O2_C512200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	01-Mar-21	07-Mar-21	19-Mar-21	25-Mar-21	27
O2_C512210	ER Comment on the submitted Lifting Appliance (Clause 5.4.3.17.c, Specs A)	14	08-Mar-21	21-Mar-21	26-Mar-21	08-Apr-21	27
O2_C512240	ER Consented Lifting Appliance (Clause 5.4.3.17.a, Specs A)	0		21-Mar-21		08-Apr-21	27
O2_C512250	Submit Two Complete Sets Lifting Appliance to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	22-Mar-21	28-Mar-21	09-Apr-21	15-Apr-21	27
O2_C512260	Design Registered - Lifting Appliance	7	29-Mar-21	04-Apr-21	16-Apr-21	22-Apr-21	27
STAGE 1 SUBMISSIONS (Process Design)		174	10-Nov-20	21-Aug-21	10-Nov-20 A	22-Jul-21	536
C5.3 - PRE-TREATMENT SYSTEM (HAMMER MILL, LIQUID STORAGE, CONVEYORS)		86	10-Nov-20	03-Feb-21	10-Nov-20 A	11-May-21	608
C5.3 - STAGE 1 - PRE-TREATMENT SYSTEM		86	10-Nov-20	03-Feb-21	10-Nov-20 A	11-May-21	608
IC CHECKING & CERTIFICATION		86	10-Nov-20	11-Jan-21	10-Nov-20 A	18-Apr-21	608
O2_C53100	IC Comment on the submitted Pre-Treatment System (Clause 5.4.3.9, Specs A)	14	10-Nov-20	23-Nov-20	10-Nov-20 A	28-Feb-21	608
O2_C53110	Submit further information for the submitted Pre-Treatment System to IC (Clause 5.4.3.9, Specs A)	7	24-Nov-20	30-Nov-20	01-Mar-21	07-Mar-21	608
O2_C53120	IC Comment on the re-submitted Pre-Treatment System (Clause 5.4.3.9, Specs A)	14	01-Dec-20	14-Dec-20	08-Mar-21	21-Mar-21	608
O2_C53130	Submit further information for the re-submitted Pre-Treatment System to IC (Clause 5.4.3.9, Specs A)	7	15-Dec-20	21-Dec-20	22-Mar-21	28-Mar-21	608
O2_C53140	IC Certify Pre-Treatment System (Clause 5.4.3.9, Specs A)	14	22-Dec-20	04-Jan-21	29-Mar-21	11-Apr-21	608
O2_C53150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	05-Jan-21	11-Jan-21	12-Apr-21	18-Apr-21	608
EMPLOYER's CONSENT		23	12-Jan-21	03-Feb-21	19-Apr-21	11-May-21	608
O2_C53200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	2	12-Jan-21	13-Jan-21	19-Apr-21	20-Apr-21	608
O2_C53210	ER Comment on the submitted Pre-Treatment System (Clause 5.4.3.17.a, Specs A)	14	14-Jan-21	27-Jan-21	21-Apr-21	04-May-21	608
O2_C53220	ER Consented Pre-Treatment System (Clause 5.4.3.17.a, Specs A)	0		27-Jan-21		04-May-21	608
O2_C53230	Submit Two Complete Sets Pre-Treatment System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	28-Jan-21	03-Feb-21	05-May-21	11-May-21	608
O2_C53240	Design Registered - Pre-Treatment System	7	28-Jan-21	03-Feb-21	05-May-21	11-May-21	608



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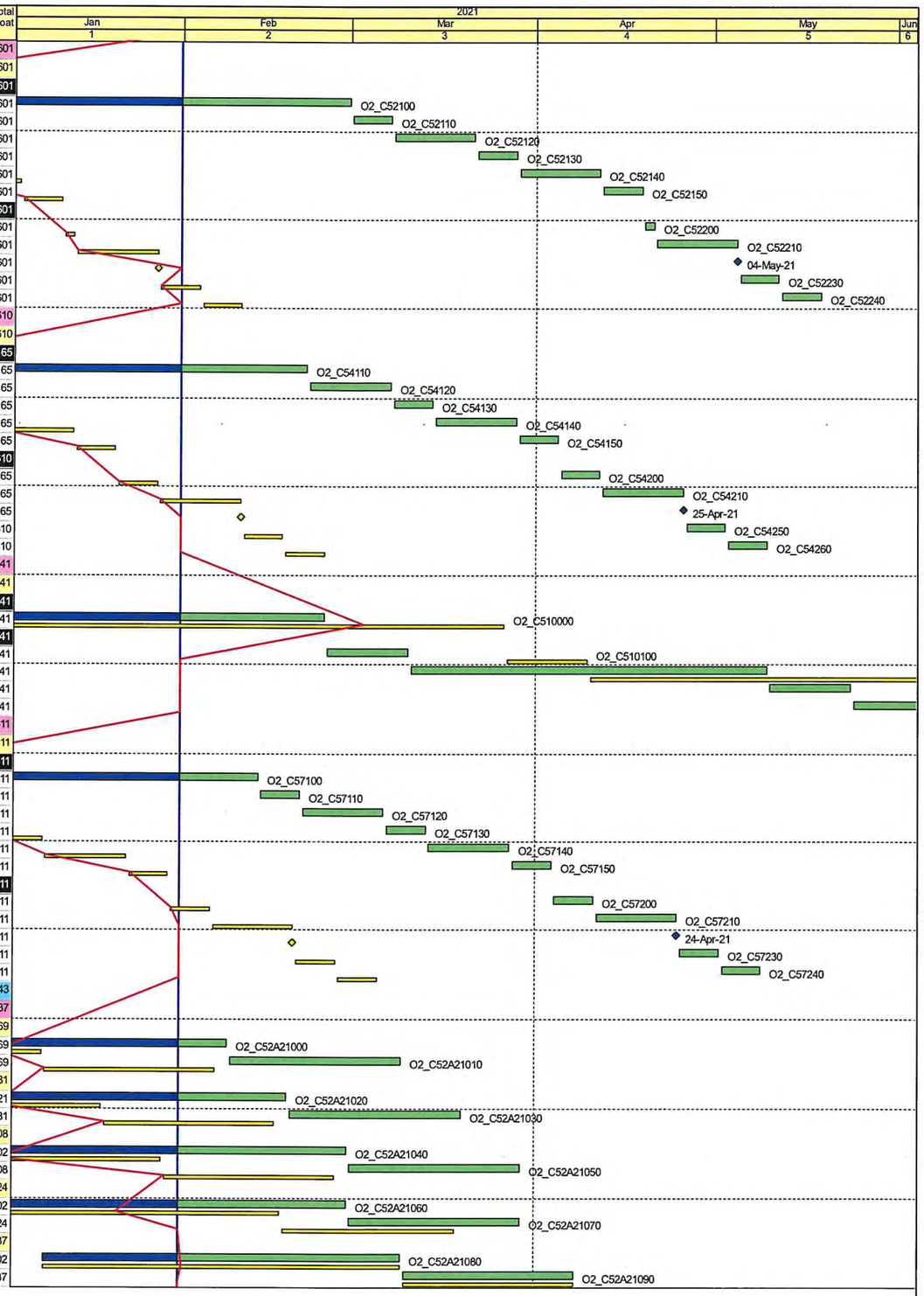
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
C5.2 - WASTE RECEIVING, STORAGE AND FEEDING SYSTEM		86	10-Nov-20	10-Feb-21	10-Nov-20 A	18-May-21	601
C5.2 - STAGE 1 - WASTE RECEIVING, STORAGE AND FEEDING SYSTEM		86	10-Nov-20	10-Feb-21	10-Nov-20 A	18-May-21	601
IC CHECKING & CERTIFICATION		86	10-Nov-20	11-Jan-21	10-Nov-20 A	18-Apr-21	601
O2_C52100	IC Comment on the submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	14	10-Nov-20	23-Nov-20	10-Nov-20 A	28-Feb-21	601
O2_C52110	Submit further information for the submitted Waste Receiving, Storage & Feeding System to IC (Clause 5.4.3.9, Specs A)	7	24-Nov-20	30-Nov-20	01-Mar-21	07-Mar-21	601
O2_C52120	IC Comment on the re-submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	14	01-Dec-20	14-Dec-20	08-Mar-21	21-Mar-21	601
O2_C52130	Submit further information for the re-submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	7	15-Dec-20	21-Dec-20	22-Mar-21	28-Mar-21	601
O2_C52140	IC Certify Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	14	22-Dec-20	04-Jan-21	29-Mar-21	11-Apr-21	601
O2_C52150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	05-Jan-21	11-Jan-21	12-Apr-21	18-Apr-21	601
EMPLOYER's CONSENT		30	12-Jan-21	10-Feb-21	19-Apr-21	18-May-21	601
O2_C52200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	2	12-Jan-21	13-Jan-21	19-Apr-21	20-Apr-21	601
O2_C52210	ER Comment on the submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3.17.a, Specs A)	14	14-Jan-21	27-Jan-21	21-Apr-21	04-May-21	601
O2_C52220	ER Consented Waste Receiving, Storage & Feeding System (Clause 5.4.3.17.a, Specs A)	0		27-Jan-21		04-May-21	601
O2_C52230	Submit Two Complete Sets Waste Recv, Storage & Feeding System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	28-Jan-21	03-Feb-21	05-May-21	11-May-21	601
O2_C52240	Design Registered - Waste Receiving, Storage & Feeding System	7	04-Feb-21	10-Feb-21	12-May-21	18-May-21	601
C5.4 - ANAEROBIC DIGESTION TREATMENT SYSTEM		109	03-Dec-20	24-Feb-21	03-Dec-20 A	09-May-21	610
C5.4 - STAGE 1 SUBMISSION - AD SYSTEM		109	03-Dec-20	24-Feb-21	03-Dec-20 A	09-May-21	610
IC CHECKING & CERTIFICATION		109	03-Dec-20	20-Jan-21	03-Dec-20 A	04-Apr-21	65
O2_C54110	Submit further information for the submitted AD Treatment System to IC (Clause 5.4.3.9, Specs A)	7	03-Dec-20	09-Dec-20	03-Dec-20 A	21-Feb-21	65
O2_C54120	IC Comment on the re-submitted AD Treatment System (Clause 5.4.3.9, Specs A)	14	10-Dec-20	23-Dec-20	22-Feb-21	07-Mar-21	65
O2_C54130	Submit further information for the re-submitted AD Treatment System to IC (Clause 5.4.3.9, Specs A)	7	24-Dec-20	30-Dec-20	08-Mar-21	14-Mar-21	65
O2_C54140	IC Certify AD Treatment System (Clause 5.4.3.9, Specs A)	14	31-Dec-20	13-Jan-21	15-Mar-21	28-Mar-21	65
O2_C54150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	14-Jan-21	20-Jan-21	29-Mar-21	04-Apr-21	65
EMPLOYER's CONSENT		35	21-Jan-21	24-Feb-21	05-Apr-21	09-May-21	610
O2_C54200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	21-Jan-21	27-Jan-21	05-Apr-21	11-Apr-21	65
O2_C54210	ER Comment on the submitted AD Treatment System (Clause 5.4.3.17.c, Specs A)	14	28-Jan-21	10-Feb-21	12-Apr-21	25-Apr-21	65
O2_C54240	ER Consented AD Treatment System (Clause 5.4.3.17.a, Specs A)	0		10-Feb-21		25-Apr-21	65
O2_C54250	Submit Two Complete Sets AD Treatment System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	11-Feb-21	17-Feb-21	26-Apr-21	02-May-21	610
O2_C54260	Design Registered - AD Treatment System	7	18-Feb-21	24-Feb-21	03-May-21	09-May-21	610
C5.10 - CONTROL & INSTRUMENTATION WORKS		174	27-Nov-20	21-Aug-21	27-Nov-20 A	22-Jul-21	41
C5.10 - STAGE 1 - C&I WORKS		174	27-Nov-20	21-Aug-21	27-Nov-20 A	22-Jul-21	41
SUBMISSION		120	27-Nov-20	26-Mar-21	27-Nov-20 A	24-Feb-21	41
O2_C510000	Control and Instrumentation Work (Clause 5.4.3.9, Specs A)	120	27-Nov-20	26-Mar-21	27-Nov-20 A	24-Feb-21	41
IC CHECKING & CERTIFICATION		148	27-Mar-21	21-Aug-21	25-Feb-21	22-Jul-21	41
O2_C510100	IC Comment on the submitted C&I Works (Clause 5.4.3.9, Specs A)	14	27-Mar-21	09-Apr-21	25-Feb-21	10-Mar-21	41
O2_C510110	Submit further information for the submitted C&I Works to IC (Clause 5.4.3.9, Specs A)	60	10-Apr-21	08-Jun-21	11-Mar-21	09-May-21	41
O2_C510120	IC Comment on the re-submitted C&I Works (Clause 5.4.3.9, Specs A)	14	09-Jun-21	22-Jun-21	10-May-21	23-May-21	41
O2_C510130	Submit further information for the re-submitted C&I Works to IC (Clause 5.4.3.9, Specs A)	60	23-Jun-21	21-Aug-21	24-May-21	22-Jul-21	41
C5.7 - DEWATERING AND GRANULATION SYSTEM		119	28-Nov-20	05-Mar-21	04-Dec-20 A	08-May-21	611
C5.7 - STAGE 1 - GRANULATION SYSTEM		119	28-Nov-20	05-Mar-21	04-Dec-20 A	08-May-21	611
IC CHECKING & CERTIFICATION		119	28-Nov-20	29-Jan-21	04-Dec-20 A	03-Apr-21	611
O2_C57100	IC Comment on the submitted Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	14	28-Nov-20	11-Dec-20	04-Dec-20 A	13-Feb-21	611
O2_C57110	Submit further information for the submitted Dewatering & Granulation System to IC (Clause 5.4.3.9, Specs A)	7	12-Dec-20	18-Dec-20	14-Feb-21	20-Feb-21	611
O2_C57120	IC Comment on the re-submitted Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	14	19-Dec-20	01-Jan-21	21-Feb-21	06-Mar-21	611
O2_C57130	Submit further information for the re-submitted Dewatering & Granulation System to IC (Clause 5.4.3.9, Specs A)	7	02-Jan-21	08-Jan-21	07-Mar-21	13-Mar-21	611
O2_C57140	IC Certify Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	14	09-Jan-21	22-Jan-21	14-Mar-21	27-Mar-21	611
O2_C57150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	23-Jan-21	29-Jan-21	28-Mar-21	03-Apr-21	611
EMPLOYER's CONSENT		35	30-Jan-21	05-Mar-21	04-Apr-21	08-May-21	611
O2_C57200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	7	30-Jan-21	05-Feb-21	04-Apr-21	10-Apr-21	611
O2_C57210	ER Comment on the submitted Dewatering & Granulation System (Clause 5.4.3.17.c, Specs A)	14	06-Feb-21	19-Feb-21	11-Apr-21	24-Apr-21	611
O2_C57220	ER Consented Dewatering & Granulation System (Clause 5.4.3.17.a, Specs A)	0		19-Feb-21		24-Apr-21	611
O2_C57230	Submit Two Complete Sets Dewatering & Granulation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	7	20-Feb-21	26-Feb-21	25-Apr-21	01-May-21	611
O2_C57240	Design Registered - Dewatering & Granulation System	7	27-Feb-21	05-Mar-21	02-May-21	08-May-21	611
STAGE 2 SUBMISSIONS (Process Equipment)		182	10-Nov-20	30-Jun-21	10-Nov-20 A	30-Jun-21	243
C5.2 & C5.3 WASTE RECEIVING & PRE-TREATMENT SYSTEMS		120	10-Nov-20	05-May-21	10-Nov-20 A	05-May-21	187
Huning		60	10-Nov-20	06-Feb-21	10-Nov-20 A	09-Mar-21	69
O2_C52A21000	Submit Stage 2 Equipment Submissions: Huning	60	10-Nov-20	08-Jan-21	10-Nov-20 A	08-Feb-21	69
O2_C52A21010	IC Approve Stage 2 Equipment Submission: Huning	29	09-Jan-21	06-Feb-21	09-Feb-21	09-Mar-21	69
Eisele		60	20-Nov-20	16-Feb-21	20-Nov-20 A	19-Mar-21	181
O2_C52A21020	Submit Stage 2 Waste Receiving and Pre-Treatment Equipment Submissions: Eisele	60	20-Nov-20	18-Jan-21	20-Nov-20 A	18-Feb-21	121
O2_C52A21030	IC Approve Stage 2 Waste Receiving and Pre-Treatment Equipment Submission: Priority 2	29	19-Jan-21	16-Feb-21	19-Feb-21	19-Mar-21	181
SUMA		60	30-Nov-20	26-Feb-21	30-Nov-20 A	29-Mar-21	108
O2_C52A21040	Submit Stage 2 Equipment Submissions: SUMA	60	30-Nov-20	28-Jan-21	30-Nov-20 A	28-Feb-21	102
O2_C52A21050	IC Approve Stage 2 Equipment Submission: SUMA	29	29-Jan-21	26-Feb-21	01-Mar-21	29-Mar-21	108
RUNI/PRM		72	20-Dec-20	18-Mar-21	20-Dec-20 A	29-Mar-21	224
O2_C52A21060	Submit Stage 2 Equipment Submissions: PRM	60	20-Dec-20	17-Feb-21	20-Dec-20 A	28-Feb-21	102
O2_C52A21070	IC Approve Stage 2 Equipment Submission: PRM	29	18-Feb-21	18-Mar-21	01-Mar-21	29-Mar-21	224
Wackerbauer		83	09-Jan-21	07-Apr-21	09-Jan-21 A	07-Apr-21	187
O2_C52A21080	Submit Stage 2 Equipment Submissions: Wackerbauer	60	09-Jan-21	09-Mar-21	09-Jan-21 A	09-Mar-21	102
O2_C52A21090	IC Approve Stage 2 Equipment Submission: Wackerbauer	29	10-Mar-21	07-Apr-21	10-Mar-21	07-Apr-21	187



AJA JOINT VENTURE

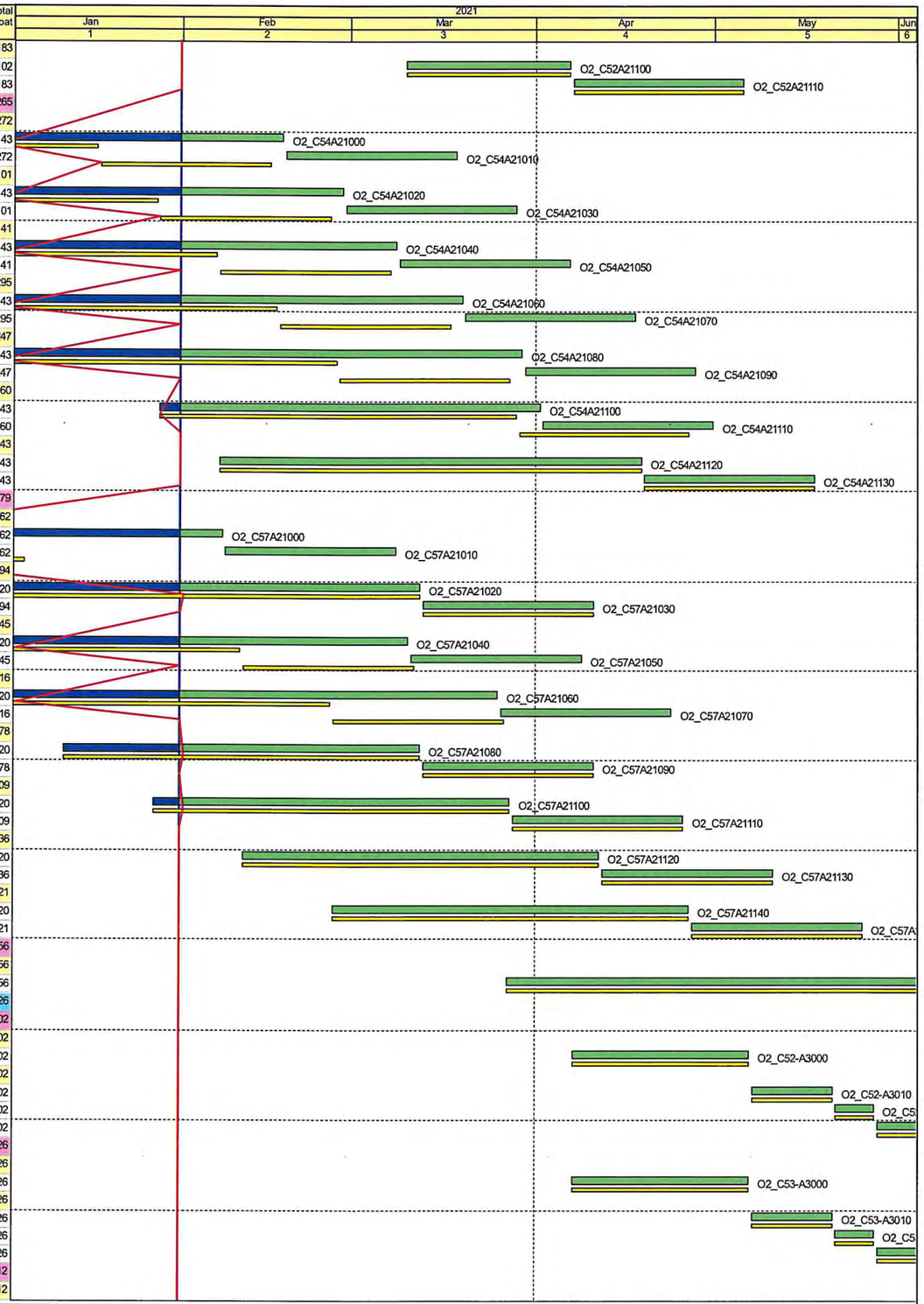
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
Priority 3		57	10-Mar-21	05-May-21	10-Mar-21	05-May-21	183
O2_C52A21100	Submit Stage 2 Waste Receiving and Pre-Treatment Equipment Submissions: Priority 3	28	10-Mar-21	06-Apr-21	10-Mar-21	06-Apr-21	102
O2_C52A21110	IC Approve Stage 2 Waste Receiving and Pre-Treatment Equipment Submission: Priority 3	29	07-Apr-21	05-May-21	07-Apr-21	05-May-21	183
C5.4 - ANAEROBIC DIGESTION TREATMENT SYSTEM		107	19-Nov-20	17-May-21	19-Nov-20 A	17-May-21	265
SUMA		60	19-Nov-20	15-Feb-21	19-Nov-20 A	18-Mar-21	272
O2_C54A21000	Submit Stage 2 Equipment Submissions: SUMA	60	19-Nov-20	17-Jan-21	19-Nov-20 A	17-Feb-21	43
O2_C54A21010	IC Approve Stage 2 Equipment Submission: SUMA	29	18-Jan-21	15-Feb-21	18-Feb-21	18-Mar-21	272
AAT		60	29-Nov-20	25-Feb-21	29-Nov-20 A	28-Mar-21	101
O2_C54A21020	Submit Stage 2 Equipment Submissions: AAT	60	29-Nov-20	27-Jan-21	29-Nov-20 A	27-Feb-21	43
O2_C54A21030	IC Approve Stage 2 Equipment Submission: AAT	29	28-Jan-21	25-Feb-21	28-Feb-21	28-Mar-21	101
Wangen		65	09-Dec-20	07-Mar-21	09-Dec-20 A	06-Apr-21	141
O2_C54A21040	Submit Stage 2 Equipment Submissions: Wangen	60	09-Dec-20	06-Feb-21	09-Dec-20 A	08-Mar-21	43
O2_C54A21050	IC Approve Stage 2 Equipment Submission: Wangen	29	07-Feb-21	07-Mar-21	09-Mar-21	06-Apr-21	141
Vogelsang		77	19-Dec-20	17-Mar-21	19-Dec-20 A	17-Apr-21	295
O2_C54A21060	Submit Stage 2 Equipment Submissions: Vogelsang	60	19-Dec-20	16-Feb-21	19-Dec-20 A	19-Mar-21	43
O2_C54A21070	IC Approve Stage 2 Equipment Submission: Vogelsang	29	17-Feb-21	17-Mar-21	20-Mar-21	17-Apr-21	295
Flight		77	29-Dec-20	27-Mar-21	29-Dec-20 A	27-Apr-21	247
O2_C54A21080	Submit Stage 2 Equipment Submissions: Flight	60	29-Dec-20	26-Feb-21	29-Dec-20 A	29-Mar-21	43
O2_C54A21090	IC Approve Stage 2 Equipment Submission: Flight	29	27-Feb-21	27-Mar-21	30-Mar-21	27-Apr-21	247
Priority 2		89	28-Jan-21	26-Apr-21	28-Jan-21 A	30-Apr-21	60
O2_C54A21100	Submit Stage 2 AD Equipment Submissions: Priority 2	60	28-Jan-21	28-Mar-21	28-Jan-21 A	01-Apr-21	43
O2_C54A21110	IC Approve Stage 2 AD Equipment Submission: Priority 2	29	29-Mar-21	26-Apr-21	02-Apr-21	30-Apr-21	60
Priority 3		100	07-Feb-21	17-May-21	07-Feb-21	17-May-21	43
O2_C54A21120	Submit Stage 2 AD Equipment Submissions: Priority 3	71	07-Feb-21	18-Apr-21	07-Feb-21	18-Apr-21	43
O2_C54A21130	IC Approve Stage 2 AD Equipment Submission: Priority 3	29	19-Apr-21	17-May-21	19-Apr-21	17-May-21	43
C5.7 - DEWATERING AND GRANULATION SYSTEM		146	28-Nov-20	25-May-21	28-Nov-20 A	25-May-21	279
Dorset		67	28-Nov-20	05-Jan-21	28-Nov-20 A	08-Mar-21	162
O2_C57A21000	Submit Stage 2 Equipment Submissions: Dorset	10	28-Nov-20	07-Dec-20	28-Nov-20 A	07-Feb-21	162
O2_C57A21010	IC Approve Stage 2 Equipment Submission: Dorset	29	08-Dec-20	05-Jan-21	08-Feb-21	08-Mar-21	162
Huning		105	28-Nov-20	10-Apr-21	28-Nov-20 A	10-Apr-21	194
O2_C57A21020	Submit Stage 2 Equipment Submissions: Huning	105	28-Nov-20	12-Mar-21	28-Nov-20 A	12-Mar-21	20
O2_C57A21030	IC Approve Stage 2 Equipment Submission: Huning	29	13-Mar-21	10-Apr-21	13-Mar-21	10-Apr-21	194
Borger		98	13-Dec-20	11-Mar-21	13-Dec-20 A	08-Apr-21	145
O2_C57A21040	Submit Stage 2 Equipment Submissions: Borger	60	13-Dec-20	10-Feb-21	13-Dec-20 A	10-Mar-21	20
O2_C57A21050	IC Approve Stage 2 Equipment Submission: Borger	29	11-Feb-21	11-Mar-21	11-Mar-21	08-Apr-21	145
Alfa Laval		98	28-Dec-20	26-Mar-21	28-Dec-20 A	23-Apr-21	216
O2_C57A21060	Submit Stage 2 Equipment Submissions: Alfa Laval	60	28-Dec-20	25-Feb-21	28-Dec-20 A	25-Mar-21	20
O2_C57A21070	IC Approve Stage 2 Equipment Submission: Alfa Laval	29	26-Feb-21	26-Mar-21	26-Mar-21	23-Apr-21	216
Wangen		70	12-Jan-21	10-Apr-21	12-Jan-21 A	10-Apr-21	278
O2_C57A21080	Submit Stage 2 Equipment Submissions: Wangen	60	12-Jan-21	12-Mar-21	12-Jan-21 A	12-Mar-21	20
O2_C57A21090	IC Approve Stage 2 Equipment Submission: Wangen	29	13-Mar-21	10-Apr-21	13-Mar-21	10-Apr-21	278
Prominent		84	27-Jan-21	25-Apr-21	27-Jan-21 A	25-Apr-21	309
O2_C57A21100	Submit Stage 2 Equipment Submissions: Prominent	60	27-Jan-21	27-Mar-21	27-Jan-21 A	27-Mar-21	20
O2_C57A21110	IC Approve Stage 2 Equipment Submission: Prominent	29	28-Mar-21	25-Apr-21	28-Mar-21	25-Apr-21	309
Priority 2		89	11-Feb-21	10-May-21	11-Feb-21	10-May-21	136
O2_C57A21120	Submit Stage 2 Dewatering and Granulation Equipment Submissions: Priority 2	60	11-Feb-21	11-Apr-21	11-Feb-21	11-Apr-21	20
O2_C57A21130	IC Approve Stage 2 Dewatering and Granulation Equipment Submission: Priority 2	29	12-Apr-21	10-May-21	12-Apr-21	10-May-21	136
Priority 3		89	26-Feb-21	25-May-21	26-Feb-21	25-May-21	121
O2_C57A21140	Submit Stage 2 Dewatering and Granulation Equipment Submissions: Priority 3	60	26-Feb-21	26-Apr-21	26-Feb-21	26-Apr-21	20
O2_C57A21150	IC Approve Stage 2 Dewatering and Granulation Equipment Submission: Priority 3	29	27-Apr-21	25-May-21	27-Apr-21	25-May-21	121
C5.10 - CONTROL & INSTRUMENTATION WORKS		96	27-Mar-21	30-Jun-21	27-Mar-21	30-Jun-21	56
All Equipment Submissions		96	27-Mar-21	30-Jun-21	27-Mar-21	30-Jun-21	56
O2_C510A2100	Submit Stage 2 C&I Equipment Submissions:	96	27-Mar-21	30-Jun-21	27-Mar-21*	30-Jun-21	56
STAGE 3 SUBMISSIONS (Process Installation)		65	07-Apr-21	10-Jun-21	07-Apr-21	10-Jun-21	126
C5.2 - STAGE 3 - WASTE RECEIVING, STORAGE AND FEEDING SYSTEM		65	07-Apr-21	10-Jun-21	07-Apr-21	10-Jun-21	102
SUBMISSION		30	07-Apr-21	06-May-21	07-Apr-21	06-May-21	102
O2_C52-A3000	Stage 3 - Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	30	07-Apr-21	06-May-21	07-Apr-21	06-May-21	102
IC CHECKING & CERTIFICATION		35	07-May-21	10-Jun-21	07-May-21	10-Jun-21	102
O2_C52-A3010	IC Comment on the submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	14	07-May-21	20-May-21	07-May-21	20-May-21	102
O2_C52-A3020	Submit further information for the submitted Waste Receiving, Storage & Feeding System to IC (Clause 5.4.3.9, Specs A)	7	21-May-21	27-May-21	21-May-21	27-May-21	102
O2_C52-A3030	IC Comment on the re-submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	14	28-May-21	10-Jun-21	28-May-21	10-Jun-21	102
C5.3 - STAGE 3 - PRE-TREATMENT SYSTEM		65	07-Apr-21	10-Jun-21	07-Apr-21	10-Jun-21	126
SUBMISSION		30	07-Apr-21	06-May-21	07-Apr-21	06-May-21	126
O2_C53-A3000	Stage 3 - Pre-Treatment System (Clause 5.4.3.9, Specs A)	30	07-Apr-21	06-May-21	07-Apr-21	06-May-21	126
IC CHECKING & CERTIFICATION		35	07-May-21	10-Jun-21	07-May-21	10-Jun-21	126
O2_C53-A3010	IC Comment on the submitted Pre-Treatment System (Clause 5.4.3.9, Specs A)	14	07-May-21	20-May-21	07-May-21	20-May-21	126
O2_C53-A3020	Submit further information for the submitted Pre-Treatment System to IC (Clause 5.4.3.9, Specs A)	7	21-May-21	27-May-21	21-May-21	27-May-21	126
O2_C53-A3030	IC Comment on the re-submitted Pre-Treatment System (Clause 5.4.3.9, Specs A)	14	28-May-21	10-Jun-21	28-May-21	10-Jun-21	126
C5.4 - STAGE 3 SUBMISSION - AD SYSTEM		44	19-Apr-21	01-Jun-21	19-Apr-21	01-Jun-21	112
SUBMISSION		30	19-Apr-21	18-May-21	19-Apr-21	18-May-21	112



AJA JOINT VENTURE

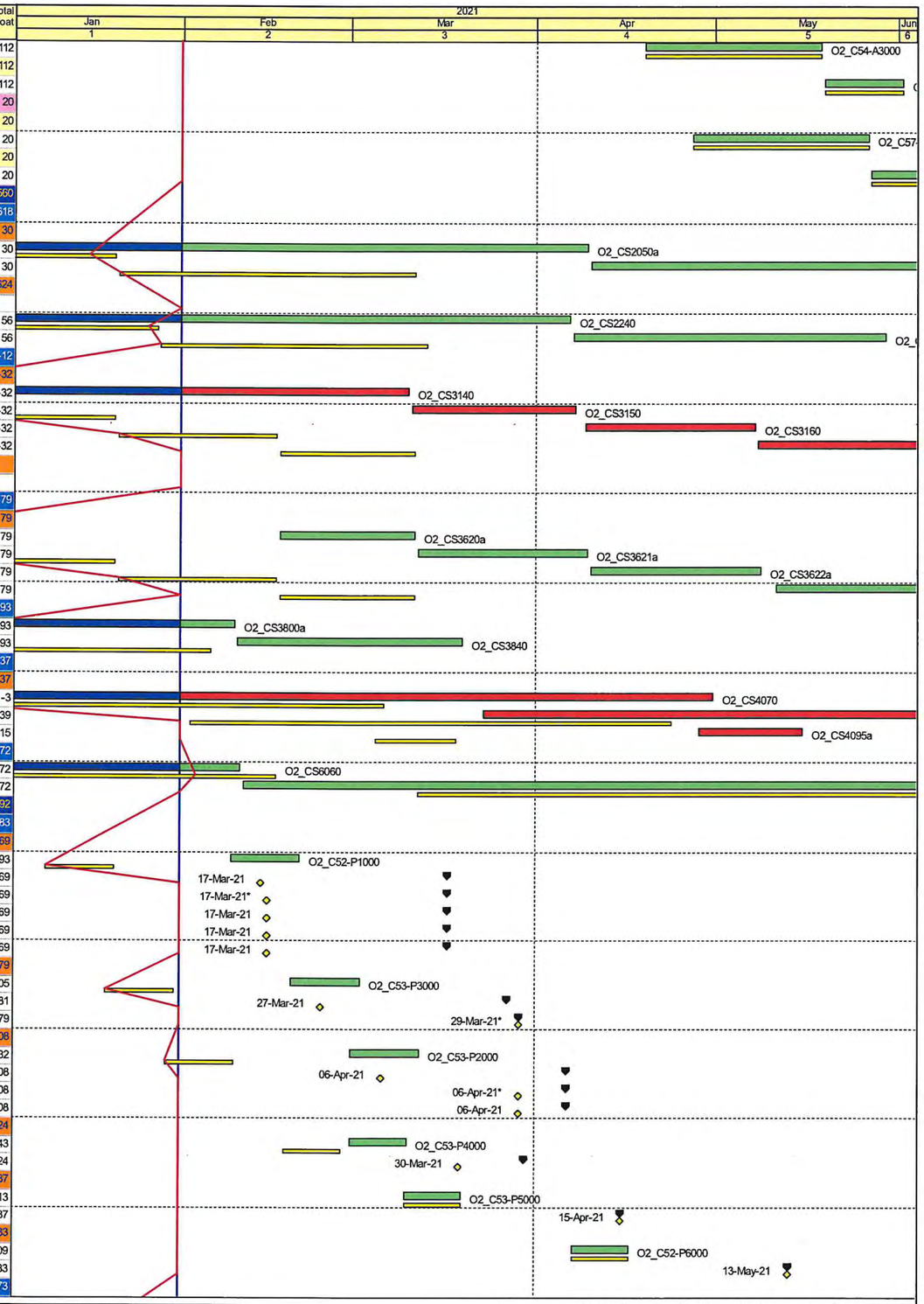
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_C54-A3000	Stage 3- Anaerobic Digestion Treatment System (Clause 5.4.3.9, Specs A)	30	19-Apr-21	18-May-21	19-Apr-21	18-May-21	112
IC CHECKING & CERTIFICATION		14	19-May-21	01-Jun-21	19-May-21	01-Jun-21	112
O2_C54-A3010	IC Comment on the submitted AD Treatment System (Clause 5.4.3.9, Specs A)	14	19-May-21	01-Jun-21	19-May-21	01-Jun-21	112
C5.7 - STAGE 3 - GRANULATION SYSTEM		44	27-Apr-21	09-Jun-21	27-Apr-21	09-Jun-21	20
SUBMISSION		30	27-Apr-21	26-May-21	27-Apr-21	26-May-21	20
O2_C57-A3000	Stage 3 - Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	30	27-Apr-21	26-May-21	27-Apr-21	26-May-21	20
IC CHECKING & CERTIFICATION		14	27-May-21	09-Jun-21	27-May-21	09-Jun-21	20
O2_C57-A3010	IC Comment on the submitted Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	14	27-May-21	09-Jun-21	27-May-21	09-Jun-21	20
CIVIL , STRUCTURAL AND BUILDING WORKS		533	16-Sep-20	29-Sep-21	16-Dec-19 A	28-Aug-21	560
RECEPTION BUILDING (INCLUDING ADMINISTRATION BUILDING)		149	21-Nov-20	13-Mar-21	20-Nov-20 A	07-Jun-21	618
RC WORKS - RECEPTION BUILDING @ GL SD-SJ/S1-S7 (INCLUDING VEHICLE WASHING AREA) (ZONE 1)		140	02-Dec-20	11-Mar-21	20-Nov-20 A	07-Jun-21	30
O2_CS2050a	Columns and Walls +38.325mPD	40	02-Dec-20	20-Jan-21	20-Nov-20 A	09-Apr-21	30
O2_CS2070a	Ground slab and beams to +38.625mPD	40	21-Jan-21	11-Mar-21	10-Apr-21	07-Jun-21	30
RC WORKS - ADMINISTRATION BUILDING @ GL SA-SD/S2-S7 (INCLUDING STARCASE AREA) (ZONE 1)		143	21-Nov-20	13-Mar-21	07-Dec-20 A	29-May-21	624
O2_CS2239b	Installation of Earth Mat	10	21-Nov-20	02-Dec-20	07-Dec-20 A	11-Dec-20 A	
O2_CS2240	Ground Floor +38.625m (incl staircase area) +36.775mPD (Lift Pit)	34	16-Dec-20	27-Jan-21	16-Dec-20 A	06-Apr-21	56
O2_CS2250	Columns, Walls and Slab to +43.225mPD (G/F) (incl staricase area)	36	28-Jan-21	13-Mar-21	07-Apr-21	29-May-21	56
ANAEROBIC DIGESTION TANKS (4 AD Tanks)		139	02-Dec-20	11-Mar-21	02-Dec-20 A	05-Jun-21	-12
AD TANKS - FOUNDATION & RC WORKS (FIRST 2 TANKS) (ZONE 2)		139	02-Dec-20	11-Mar-21	02-Dec-20 A	05-Jun-21	-32
O2_CS3140	1st Lift of Chamber Wall for Tanks (5m height)	20	02-Dec-20	24-Dec-20	02-Dec-20 A	10-Mar-21	-32
O2_CS3150	2nd Lift of Chamber Wall for Tanks (5m height)	20	28-Dec-20	20-Jan-21	11-Mar-21	07-Apr-21	-32
O2_CS3160	3rd Lift of Chamber Wall for Tanks (5m height)	20	21-Jan-21	16-Feb-21	09-Apr-21	07-May-21	-32
O2_CS3170	4th Lift of Chamber Wall for Tanks (5m height)	20	17-Feb-21	11-Mar-21	08-May-21	05-Jun-21	-32
AD TANKS - FOUNDATION & RC WORKS (REMAINING 2 TANKS) (ZONE 2)		10	04-Dec-20	15-Dec-20	07-Dec-20 A	16-Dec-20 A	
O2_CS3104a	Raft Footing for Tanks - Bay 7	10	04-Dec-20	15-Dec-20	07-Dec-20 A	16-Dec-20 A	
BIOGAS STORAGE TANKS, DIGESTATE TANK & PUMP ROOM		80	02-Dec-20	11-Mar-21	17-Feb-21	07-Jun-21	79
DIGESTATE TANK (ZONE 2)		80	02-Dec-20	11-Mar-21	17-Feb-21	07-Jun-21	79
O2_CS3620a	1st Lift of Chamber Wall for Tanks (4m height)	20	02-Dec-20	24-Dec-20	17-Feb-21	11-Mar-21	79
O2_CS3621a	2nd Lift of Chamber Wall for Tanks (4m height)	20	28-Dec-20	20-Jan-21	12-Mar-21	09-Apr-21	79
O2_CS3622a	3rd Lift of Chamber Wall for Tanks (4m height)	20	21-Jan-21	16-Feb-21	10-Apr-21	08-May-21	79
O2_CS3623a	4th Lift of Chamber Wall for Tanks (4m height)	20	17-Feb-21	11-Mar-21	11-May-21	07-Jun-21	79
BOUNDARY WALL (ZONE 2)		85	16-Sep-20	05-Feb-21	16-Sep-20 A	19-Mar-21	293
O2_CS3800a	RC Upstand	85	16-Sep-20	31-Dec-20	16-Sep-20 A	09-Feb-21	293
O2_CS3840	Backfilling	30	02-Jan-21	05-Feb-21	10-Feb-21	19-Mar-21	293
GRANULATION BUILDING & FACILITIES		151	21-Dec-20	23-Apr-21	21-Dec-20 A	21-Jun-21	-37
SUBSTRUCTURE (GL NA~NI / N1~N7)		151	21-Dec-20	23-Apr-21	21-Dec-20 A	21-Jun-21	-37
O2_CS4070	Construct Base Slab +31.050mPD	60	21-Dec-20	06-Mar-21	21-Dec-20 A	30-Apr-21	-3
O2_CS4080	Column and Wall up to +38.075mPD	60	02-Feb-21	23-Apr-21	23-Mar-21	21-Jun-21	-39
O2_CS4095a	Tower Crane Erection	12	05-Mar-21	18-Mar-21	28-Apr-21	15-May-21	-15
EXTERNAL WORKS		533	16-Dec-20	29-Sep-21	16-Dec-19 A	28-Aug-21	72
O2_CS6060	Standby Flare slab (incl. mini-piling)	48	16-Dec-20	16-Feb-21	16-Dec-19 A	10-Feb-21	72
O2_CS6110	Geotechnical Works (slope stabilization etc.)	140	12-Mar-21	29-Sep-21	11-Feb-21	28-Aug-21	72
E&M MAJOR EQUIPMENT PROCUREMENT (AGRIVERT)		101	08-Dec-20	20-May-21	08-Feb-21	20-May-21	292
C5.2 & C5.3 WASTE RECEIVING & PRE-TREATMENT SYSTEMS		93	09-Jan-21	13-May-21	09-Feb-21	13-May-21	183
Huning		36	09-Jan-21	15-Feb-21	09-Feb-21	17-Mar-21	69
O2_C52-P1000	Preparation of Purchase Order and LOA: Huning	12	09-Jan-21	20-Jan-21	09-Feb-21*	20-Feb-21	93
O2_C52-P1010	LOA Issued to Supplier: Huning	0	14-Feb-21		17-Mar-21		69
O2_C52-P1020	***Earliest Date to place orders: Huning Equipment:	0	15-Feb-21		17-Mar-21*		69
O2_C52-P1030	Reception Bunker Bulk Unloading Lids (LI101 to 401) [inc. Hydraulic Power Unit]: Place Purchase Order	0	15-Feb-21		17-Mar-21		69
O2_C52-P1040	Waste Reception Push Floor Bunker (PF101/102/103 to 401/402/403): Place Purchase Order	0	15-Feb-21		17-Mar-21		69
O2_C52-P1050	Reception Bunker Collecting Screw Conveyors (CO101 to 401): Place Purchase Order	0	15-Feb-21		17-Mar-21		69
Eisele		38	19-Jan-21	29-Mar-21	19-Feb-21	29-Mar-21	179
O2_C53-P3000	Preparation of Purchase Order and LOA: Eisele	12	19-Jan-21	30-Jan-21	19-Feb-21	02-Mar-21	205
O2_C53-P3010	LOA Issued to Supplier: Eisele	0	24-Feb-21		27-Mar-21		181
O2_C53-P3020	***Earliest Date to place orders: Eisele	0	29-Mar-21		29-Mar-21*		179
SUMA		36	29-Jan-21	29-Mar-21	01-Mar-21	06-Apr-21	108
O2_C53-P2000	Preparation of Purchase Order and LOA: SUMA	12	29-Jan-21	09-Feb-21	01-Mar-21	12-Mar-21	132
O2_C53-P2010	LOA Issued to Supplier: SUMA	0	06-Mar-21		06-Apr-21		108
O2_C53-P2020	***Earliest Date to place orders: SUMA Equipment:	0	29-Mar-21		06-Apr-21*		108
O2_C53-P2030	Substrate Tanks Stirrers (MX101/102 to 401/402): Place Purchase Order	0	29-Mar-21		06-Apr-21		108
RUNI/PRM		29	18-Feb-21	19-Mar-21	01-Mar-21	30-Mar-21	224
O2_C53-P4000	Preparation of Purchase Order and LOA: Runi/PRM	10	18-Feb-21	27-Feb-21	01-Mar-21	10-Mar-21	243
O2_C53-P4010	LOA Issued to Supplier: Runi/PRM	0	19-Mar-21		30-Mar-21		224
Wackerbauer		36	10-Mar-21	15-Apr-21	10-Mar-21	15-Apr-21	187
O2_C53-P5000	Preparation of Purchase Order and LOA: Wackerbauer	10	10-Mar-21	19-Mar-21	10-Mar-21	19-Mar-21	213
O2_C53-P5010	LOA Issued to Supplier: Wackerbauer	0	15-Apr-21		15-Apr-21		187
All Other Suppliers		36	07-Apr-21	13-May-21	07-Apr-21	13-May-21	183
O2_C52-P6000	Preparation of Purchase Order and LOA: All other suppliers	10	07-Apr-21	16-Apr-21	07-Apr-21	16-Apr-21	209
O2_C52-P6010	LOA Issued to Supplier: All other suppliers	0	13-May-21		13-May-21		183
C5.4 - ANAEROBIC DIGESTION TREATMENT SYSTEM		88	18-Jan-21	17-May-21	18-Feb-21	17-May-21	273



AJA JOINT VENTURE

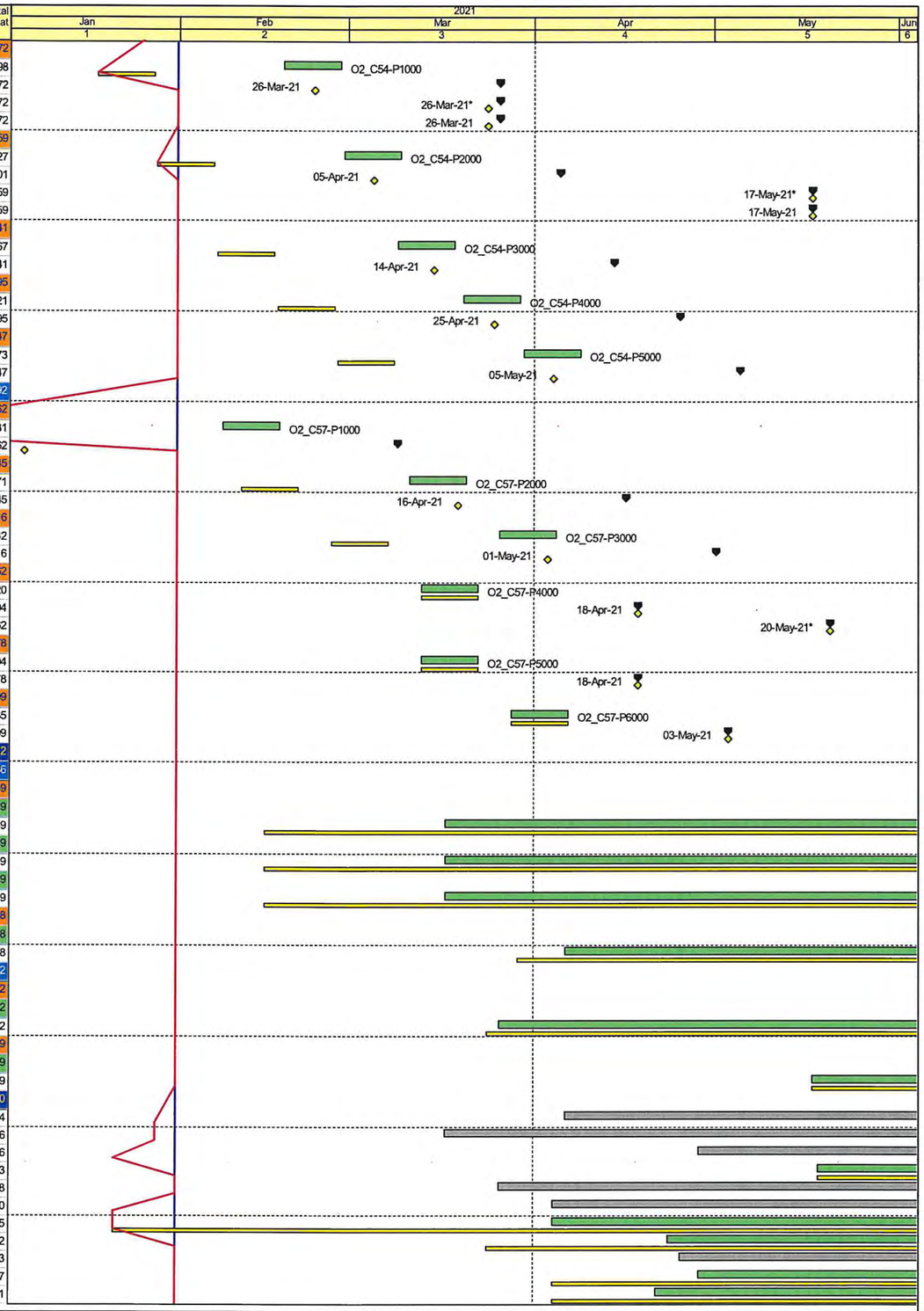
File Name: OWTF2_3M_2021.01
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
SUMA		36	18-Jan-21	24-Mar-21	18-Feb-21	26-Mar-21	272
O2_C54-P1000	Preparation of Purchase Order and LOA: SUMA	10	18-Jan-21	27-Jan-21	18-Feb-21	27-Feb-21	298
O2_C54-P1010	LOA Issued to Supplier: SUMA	0	23-Feb-21		26-Mar-21		272
O2_C54-P1020	Earliest Date to place order: SUMA	0	24-Mar-21		26-Mar-21*		272
O2_C54-P1030	Digester Tanks Stirrer (MX101/102/103/104 to MX401/402/403/404): Place Purchase Order	0	24-Mar-21		26-Mar-21		272
AAT		78	28-Jan-21	17-May-21	28-Feb-21	17-May-21	59
O2_C54-P2000	Preparation of Purchase Order and LOA: AAT	10	28-Jan-21	06-Feb-21	28-Feb-21	09-Mar-21	127
O2_C54-P2010	LOA Issued to Supplier: AAT	0	05-Mar-21		05-Apr-21		101
O2_C54-P2020	***Earliest Date to place order: AAT	0	17-May-21		17-May-21*		59
O2_C54-P2030	Biogas Tanks (TK101 to 201) [Gas Holder]: Place Purchase Order	0	17-May-21		17-May-21		59
Wangen		36	07-Feb-21	15-Mar-21	09-Mar-21	14-Apr-21	141
O2_C54-P3000	Preparation of Purchase Order and LOA: Wangen	10	07-Feb-21	16-Feb-21	09-Mar-21	18-Mar-21	167
O2_C54-P3010	LOA Issued to Supplier: Wangen	0	15-Mar-21		14-Apr-21		141
Vogelsang		36	17-Feb-21	25-Mar-21	20-Mar-21	25-Apr-21	295
O2_C54-P4000	Preparation of Purchase Order and LOA: Vogelsang	10	17-Feb-21	26-Feb-21	20-Mar-21	29-Mar-21	321
O2_C54-P4010	LOA Issued to Supplier: Vogelsang	0	25-Mar-21		25-Apr-21		295
Flygt		36	27-Feb-21	04-Apr-21	30-Mar-21	05-May-21	247
O2_C54-P5000	Preparation of Purchase Order and LOA: Flight	10	27-Feb-21	08-Mar-21	30-Mar-21	08-Apr-21	273
O2_C54-P5010	LOA Issued to Supplier: Flight	0	04-Apr-21		05-May-21		247
C5.7 - DEWATERING AND GRANULATION SYSTEM		101	08-Dec-20	20-May-21	08-Feb-21	20-May-21	292
Dorset		29	08-Dec-20	06-Jan-21	08-Feb-21	09-Mar-21	162
O2_C57-P1000	Preparation of Purchase Order and LOA: Dorset	10	08-Dec-20	17-Dec-20	08-Feb-21	17-Feb-21	181
O2_C57-P1010	LOA Issued to Supplier: Dorset	0	06-Jan-21		09-Mar-21		162
Borger		36	11-Feb-21	19-Mar-21	11-Mar-21	16-Apr-21	145
O2_C57-P2000	Preparation of Purchase Order and LOA: Borger	10	11-Feb-21	20-Feb-21	11-Mar-21	20-Mar-21	171
O2_C57-P2010	LOA Issued to Supplier: Borger	0	19-Mar-21		16-Apr-21		145
Alfa Laval		36	26-Feb-21	03-Apr-21	26-Mar-21	01-May-21	216
O2_C57-P3000	Preparation of Purchase Order and LOA: Alfa Laval	10	26-Feb-21	07-Mar-21	26-Mar-21	04-Apr-21	242
O2_C57-P3010	LOA Issued to Supplier: Alfa Laval	0	03-Apr-21		01-May-21		216
Huning		68	13-Mar-21	20-May-21	13-Mar-21	20-May-21	162
O2_C57-P4000	Preparation of Purchase Order and LOA: Huning	10	13-Mar-21	22-Mar-21	13-Mar-21	22-Mar-21	220
O2_C57-P4010	LOA Issued to Supplier: Huning	0	18-Apr-21		18-Apr-21		194
O2_C57-P4020	***Earliest Date to place orders: Huning	0	20-May-21		20-May-21*		162
Wangen		36	13-Mar-21	18-Apr-21	13-Mar-21	18-Apr-21	278
O2_C57-P5000	Preparation of Purchase Order and LOA: Wangen	10	13-Mar-21	22-Mar-21	13-Mar-21	22-Mar-21	304
O2_C57-P5010	LOA Issued to Supplier: Wangen	0	18-Apr-21		18-Apr-21		278
Prominent		36	28-Mar-21	03-May-21	28-Mar-21	03-May-21	309
O2_C57-P6000	Preparation of Purchase Order and LOA: Prominent	10	28-Mar-21	06-Apr-21	28-Mar-21	06-Apr-21	335
O2_C57-P6010	LOA Issued to Supplier: Prominent	0	03-May-21		03-May-21		309
E&M MAJOR EQUIPMENT FABRICATION & DELIVERY (AGRIVERT)		237	15-Feb-21	08-Nov-21	17-Mar-21	08-Nov-21	212
C5.2 & C5.3 WASTE RECEIVING & PRE-TREATMENT SYSTEMS		210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	86
Huning		210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	69
Reception Bunker Collecting Screw Conveyors (CO101 to 401)		210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	69
O2_C52-P1200	Reception Bunker Collecting Screw Conveyors (CO101 to 401): Equipment Delivery	210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	69
Waste Reception Push Floor Bunker (PF101/102/103 to 401/402/403)		210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	69
O2_C52-P1220	Waste Reception Push Floor Bunker (PF101/102/103 to 401/402/403): Equipment Delivery	210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	69
Reception Bunker Bulk Unloading Lids (LI101 to 401) [inc. Hydraulic Power Unit]		210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	69
O2_C52-P1240	Reception Bunker Bulk Unloading Lids (LI101 to 401) [inc. Hydraulic Power Unit]: Equipment Delivery	210	15-Feb-21	12-Sep-21	17-Mar-21	12-Oct-21	69
SUMA		168	29-Mar-21	12-Sep-21	06-Apr-21	20-Sep-21	108
Substrate Tanks Stirrers (MX101/102 to 401/402)		168	29-Mar-21	12-Sep-21	06-Apr-21	20-Sep-21	108
O2_C53-P2200	Substrate Tanks Stirrers (MX101/102 to 401/402): Equipment Delivery	168	29-Mar-21	12-Sep-21	06-Apr-21	20-Sep-21	108
C5.4 - ANAEROBIC DIGESTION TREATMENT SYSTEM		228	24-Mar-21	08-Nov-21	26-Mar-21	08-Nov-21	212
SUMA		168	24-Mar-21	07-Sep-21	26-Mar-21	09-Sep-21	272
Digester Tanks Stirrer (MX101/102/103/104 to MX401/402/403/404)		168	24-Mar-21	07-Sep-21	26-Mar-21	09-Sep-21	272
O2_C54-P1220	Digester Tanks Stirrer (MX101/102/103/104 to MX401/402/403/404): Equipment Delivery	168	24-Mar-21	07-Sep-21	26-Mar-21	09-Sep-21	272
AAT		176	17-May-21	08-Nov-21	17-May-21	08-Nov-21	59
Biogas Tanks (TK101 to 201) [Gas Holder]		176	17-May-21	08-Nov-21	17-May-21	08-Nov-21	59
O2_C54-P2200	Biogas Tanks (TK101 to 201) [Gas Holder]: Equipment Delivery	176	17-May-21	08-Nov-21	17-May-21	08-Nov-21	59
OTHER MAJOR EQUIPMENT FABRICATION & DELIVERY		532	21-Jan-21	10-Aug-22	17-Mar-21	30-Aug-22	310
O2_D9000	Procurement, Fabrication & Delivery of Pre-treatment Equipment (Summary of C52-P1280 to C53-P3200)	372	28-Jan-21	24-Mar-22	06-Apr-21	12-Apr-22	44
O2_D9005a	Procurement, Fabrication & Delivery of Walking Floor System (Summary of C52-P1200 to C52-P1260)	373	28-Jan-21	24-Mar-22	17-Mar-21	24-Mar-22	46
O2_D9010a	Procurement, Fabrication & Delivery of Hammermills & Containments Press (Summary of C53-P5200 & C53-P4200)	261	21-Jan-21	13-Jan-22	28-Apr-21	13-Jan-22	46
O2_D9020	Procurement, Fabrication & Delivery of Heating Coils for Digesters	180	18-May-21	13-Nov-21	18-May-21	13-Nov-21	43
O2_D9021a	Procurement, Fabrication & Delivery of Anaerobic Digestion Equipment (Summary of C54-P1200 to C54-P1220)	385	11-Feb-21	14-Apr-22	26-Mar-21	14-Apr-22	448
O2_D9023a	Procurement, Fabrication & Delivery of Gas Holders, Condtioning Plant & Asso. Equipment (C54-P2200 & C54-P2220)	514	21-Jan-21	10-Aug-22	04-Apr-21	30-Aug-22	310
O2_D9025a	Procurement, Fabrication & Delivery of Flare	300	21-Jan-21	16-Nov-21	04-Apr-21	28-Jan-22	215
O2_D9030	Procurement & Fabrication of CHP Units	330	24-Mar-21	16-Feb-22	23-Apr-21	18-Mar-22	22
O2_D9060a	Procurement, Fabrication & Delivery of Granulation Equipment (Summary of C57-P1200 to C57-P7210)	460	20-Feb-21	28-Jul-22	25-Apr-21	28-Jul-22	343
O2_D9080	Procurement, Fabrication & Delivery of Centralized Air Pollution Control Equipment	300	04-Apr-21	28-Jan-22	28-Apr-21	21-Feb-22	77
O2_D9100	Procurement, Fabrication & Delivery of Wastewater Treatment Equipment	270	04-Apr-21	29-Dec-21	21-Apr-21	15-Jan-22	51



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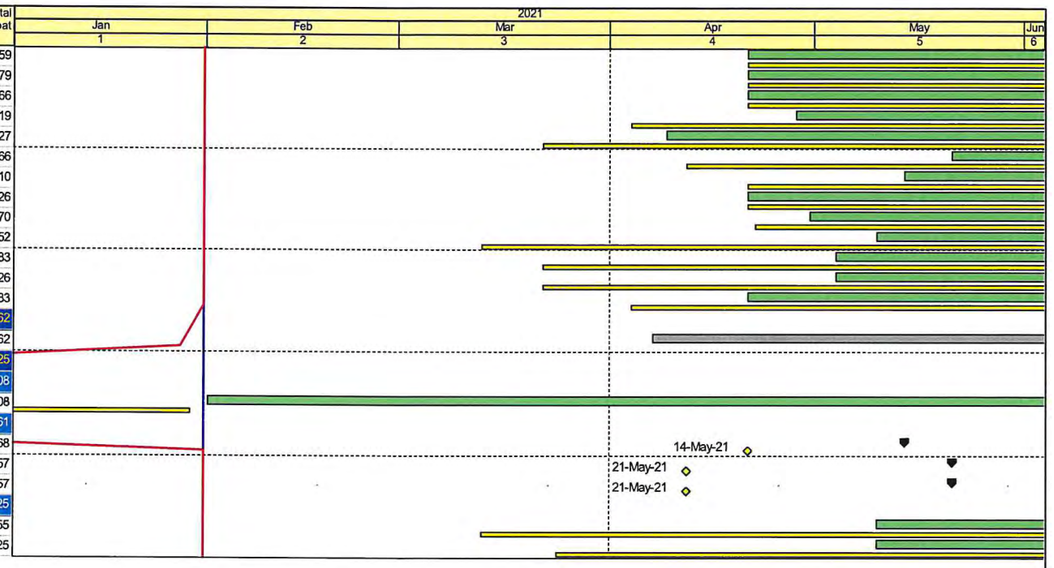
Layout: ORRC2_WP_2021.01_3M
Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Activity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float
O2_D9130	Procurement & Fabrication of HV Transformers	260	21-Apr-21	05-Jan-22	21-Apr-21	05-Jan-22	59
O2_D9160	Procurement, Fabrication & Delivery of HV Switchboards	270	21-Apr-21	15-Jan-22	21-Apr-21	15-Jan-22	79
O2_D9170	Procurement & Fabrication of LV Switchboards & MCC	270	21-Apr-21	15-Jan-22	21-Apr-21	15-Jan-22	66
O2_D9250	Procurement, Fabrication & Delivery of Odour Control Ducts	240	04-Apr-21	29-Nov-21	28-Apr-21	23-Dec-21	119
O2_D9270	Procurement, Fabrication & Delivery of Lifting Beams / Monorail Crane	240	22-Mar-21	16-Nov-21	09-Apr-21	04-Dec-21	27
O2_D9280	Procurement, Fabrication & Delivery of P/D Equipment / Material	240	12-Apr-21	07-Dec-21	21-May-21	15-Jan-22	166
O2_D9300	Procurement, Fabrication & Delivery of Cooling Tower / Chillers	300	21-Apr-21	14-Feb-22	14-May-21	09-Mar-22	110
O2_D9330a	Procurement, Fabrication & Delivery of Electrical Equipment /. Material	240	21-Apr-21	16-Dec-21	21-Apr-21	16-Dec-21	126
O2_D9340	Procurement, Fabrication & Delivery of ELV, ACS & CCTV	240	22-Apr-21	17-Dec-21	30-Apr-21	25-Dec-21	170
O2_D9380	Procurement, Fabrication & Delivery of FS Equipment	240	13-Mar-21	07-Nov-21	10-May-21	04-Jan-22	152
O2_D9400	Procurement, Fabrication & Delivery of Vehicle Washing Plant	240	22-Mar-21	16-Nov-21	04-May-21	29-Dec-21	183
O2_D9420	Procurement, Fabrication & Delivery of Weightbridge	240	22-Mar-21	16-Nov-21	04-May-21	29-Dec-21	126
O2_D9450	Procurement, Fabrication & Delivery of Chemical Storage & Dosing System	180	04-Apr-21	30-Sep-21	21-Apr-21	17-Oct-21	183
E & M INSTALLATION WORKS		136	28-Jan-21	28-Jun-21	07-Apr-21	11-Sep-21	62
O2_EM0030	Installation of Conseal Conduits	136	28-Jan-21	28-Jun-21	07-Apr-21	11-Sep-21	62
STATUTORY INSPECTION (FSD, WA, EMSD)		338	03-Aug-20	18-Nov-21	01-Feb-21	04-Jan-22	125
NGI - EMSD		180	03-Aug-20	29-Jan-21	01-Feb-21	30-Jul-21	208
O2_EM8520	Application for Construction Approval of NGI - Gas Holder (Form 104)	180	03-Aug-20	29-Jan-21	01-Feb-21*	30-Jul-21	208
PLUMBING - WSD		7	12-Apr-21	21-Apr-21	14-May-21	21-May-21	161
O2_EM8600	Submission of WWO46 Pt I & II (A/C Water Supply)	0	21-Apr-21		14-May-21		168
O2_EM8700	Submission of WWO46 Pt I & II (FS)	0	12-Apr-21		21-May-21		157
O2_EM8710	Submission of WWO46 Pt I & II (Plumbing)	0	12-Apr-21		21-May-21		157
ENVIRONMENTAL PROTECTION - EPD		240	13-Mar-21	18-Nov-21	10-May-21	04-Jan-22	125
O2_EM8930	EPD Submission & Approval for Air Pollution Control - Genset (Clause 2.4.13, Specs A)	240	13-Mar-21	07-Nov-21	10-May-21	04-Jan-22	55
O2_EM8940	EPD Submission & Approval for Air Pollution Control - CHP & Flare (Clause 2.4.13, Specs A)	240	24-Mar-21	18-Nov-21	10-May-21	04-Jan-22	125



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Task filter: TASK filters: 3MNM, 3MRPWP2.
Date Printed: 22-Feb-21

Remaining Work
Remaining Work (Critical)
Actual Work
Level of Effort
Primary Baseline
Baseline Milestone
Start Milestone

Contract No. EP/SP/86/15
Organic Waste Treatment Facilities, Phase 2
Works Programme 2nd Issue
3-Months Rolling Programme

Date	Revision	Checked	Approved
31-Jan-21			

Appendix E

Event and Action Plan

Event and Action Plan for Construction Noise

Event	Action			
	ET	IEC	ER	Contractor
Action Level Exceedance	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contrator on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level Exceedance	1. Inform IEC, ER, EPD and Contractor; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with IEC, Contractor and ER on remedial measures requried; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET Leader and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix F

Impact Monitoring Schedule of the Reporting Period and Coming Month

Impact Monitoring Schedule for reporting period – February 2021

Date		Noise Monitoring (Leq30min)
Mon	1-Feb-21	✓
Tue	2-Feb-21	
Wed	3-Feb-21	
Thu	4-Feb-21	
Fri	5-Feb-21	
Sat	6-Feb-21	
Sun	7-Feb-21	
Mon	8-Feb-21	
Tue	9-Feb-21	
Wed	10-Feb-21	
Thu	11-Feb-21	✓
Fri	12-Feb-21	
Sat	13-Feb-21	
Sun	14-Feb-21	
Mon	15-Feb-21	
Tue	16-Feb-21	
Wed	17-Feb-21	✓
Thu	18-Feb-21	
Fri	19-Feb-21	
Sat	20-Feb-21	
Sun	21-Feb-21	
Mon	22-Feb-21	
Tue	23-Feb-21	
Wed	24-Feb-21	✓
Thu	25-Feb-21	
Fri	26-Feb-21	
Sat	27-Feb-21	
Sun	28-Feb-21	

Remark:

	Public Holiday or Sunday

Impact Monitoring Schedule for coming month – March 2021

Date		Noise Monitoring (Leq30min)
Mon	1-Mar-21	
Tue	2-Mar-21	✓
Wed	3-Mar-21	
Thu	4-Mar-21	
Fri	5-Mar-21	
Sat	6-Mar-21	
Sun	7-Mar-21	
Mon	8-Mar-21	✓
Tue	9-Mar-21	
Wed	10-Mar-21	
Thu	11-Mar-21	
Fri	12-Mar-21	
Sat	13-Mar-21	
Sun	14-Mar-21	
Mon	15-Mar-21	
Tue	16-Mar-21	
Wed	17-Mar-21	
Thu	18-Mar-21	
Fri	19-Mar-21	✓
Sat	20-Mar-21	
Sun	21-Mar-21	
Mon	22-Mar-21	
Tue	23-Mar-21	
Wed	24-Mar-21	
Thu	25-Mar-21	✓
Fri	26-Mar-21	
Sat	27-Mar-21	
Sun	28-Mar-21	
Mon	29-Mar-21	
Tue	30-Mar-21	
Wed	31-Mar-21	✓

Remark:

	Public Holiday or Sunday

Appendix G

Calibration Certificates of Equipment

輝創工程有限公司
Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C204289
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC20-1324) Date of Receipt / 收件日期 : 30 July 2020

Description / 儀器名稱 : Sound Calibrator (EQ086)
Manufacturer / 製造商 : Rion
Model No. / 型號 : NC-74
Serial No. / 編號 : 34657230
Supplied By / 委託者 : Action-United Environmental Services and Consulting
Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 2 August 2020

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By : H T Wong
測試 Assistant Engineer

Certified By : K C Lee
核證 Engineer

Date of Issue : 3 August 2020
簽發日期

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory
c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 - 校正及檢測實驗所
c/o 香港新界屯門興安里一號四樓
Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C204289
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C203952
CL281	Multifunction Acoustic Calibrator	CDK1806821
TST150A	Measuring Amplifier	C201309

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.1	± 0.3	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.002	1 kHz ± 1 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

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

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輝創工程有限公司
Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C204359
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC20-1324) Date of Receipt / 收件日期 : 30 July 2020

Description / 儀器名稱 : Sound Level Meter (EQ013)
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-52
Serial No. / 編號 : 00921191
Supplied By / 委託者 : Action-United Environmental Services and Consulting
Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 5 August 2020

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 : Cheuk
K P Cheuk
Assistant Engineer

Certified By 核證 :
K C Lee
Engineer

Date of Issue 簽發日期 : 11 August 2020

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

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Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C204359
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration was performed before the test.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C200258
CL281	Multifunction Acoustic Calibrator	CDK1806821

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	93.6	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 130	L_A	A	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	93.6	Ref.
			Slow			93.6	± 0.3

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Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C204359
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_A	A	Fast	94.00	63 Hz	67.3	-26.2 ± 1.5
					125 Hz	77.4	-16.1 ± 1.5
					250 Hz	84.9	-8.6 ± 1.4
					500 Hz	90.3	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.8	+1.2 ± 1.6
					4 kHz	94.6	+1.0 ± 1.6
					8 kHz	92.5	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.1	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_C	C	Fast	94.00	63 Hz	92.8	-0.8 ± 1.5
					125 Hz	93.4	-0.2 ± 1.5
					250 Hz	93.6	0.0 ± 1.4
					500 Hz	93.6	0.0 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	93.4	-0.2 ± 1.6
					4 kHz	92.8	-0.8 ± 1.6
					8 kHz	90.6	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.2	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
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Certificate of Calibration
校正證書

Certificate No. : C204359
證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 12910

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

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

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
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Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C203574
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC20-1324) Date of Receipt / 收件日期 : 19 June 2020

Description / 儀器名稱 : Integrating Sound Level Meter (EQ009)
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 2238
Serial No. / 編號 : 2285722
Supplied By / 委託者 : Action-United Environmental Services and Consulting
Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 29 June 2020

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 : Cheuk
K P Cheuk
Assistant Engineer

Certified By 核證 :
K C Lee
Engineer

Date of Issue 簽發日期 : 6 July 2020

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C203574
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.4.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C200258
CL281	Multifunction Acoustic Calibrator	CDK1806821

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
52 - 132	L_{AFP}	A	F	94.00	1	93.8

6.1.1.2 After Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
52 - 132	L_{AFP}	A	F	94.00	1	94.0	± 0.7

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
52 - 132	L_{AFP}	A	F	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

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Certificate of Calibration
校正證書

Certificate No. : C203574
證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
52 - 132	L_{AFP}	A	F	94.00	1	94.0	Ref.
	L_{ASP}		S			94.0	± 0.1
	L_{AIP}		I			94.1	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
32 - 112	L_{AFP}	A	F	106.0	Continuous	106.0	Ref.
	L_{AFMax}				200 ms	105.0	-1.0 ± 1.0
	L_{ASP}		S		Continuous	106.0	Ref.
	L_{ASMax}				500 ms	102.0	-4.1 ± 1.0

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
52 - 132	L_{AFP}	A	F	94.00	31.5 Hz	54.5	-39.4 ± 1.5
					63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.8	-3.2 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	95.2	+1.2 ± 1.0
					4 kHz	95.0	+1.0 ± 1.0
					8 kHz	92.8	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.7	-4.3 (+3.0 ; -6.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

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Certificate of Calibration
校正證書

Certificate No. : C203574
證書編號

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
52 - 132	L_{CFP}	C	F	94.00	31.5 Hz	90.9	-3.0 ± 1.5
					63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.0
					250 Hz	94.0	0.0 ± 1.0
					500 Hz	94.0	0.0 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	93.8	-0.2 ± 1.0
					4 kHz	93.2	-0.8 ± 1.0
					8 kHz	90.9	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

6.4 Time Averaging

UUT Setting				Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)		
32 - 112	L_{Aeq}	A	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5
						$1/10^2$		90	89.6	± 0.5
			60 sec.			$1/10^3$		80	79.1	± 1.0
			5 min.			$1/10^4$		70	69.2	± 1.0

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2812706

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value :

94 dB	: 31.5 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
Burst equivalent level		: ± 0.2 dB (Ref. 110 dB continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

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

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
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Sun Creation Engineering Limited – Calibration & Testing Laboratory
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輝創工程有限公司 – 校正及檢測實驗所
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輝創工程有限公司
Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C203572
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC20-1324) Date of Receipt / 收件日期 : 19 June 2020

Description / 儀器名稱 : Sound Calibrator (EQ082)
Manufacturer / 製造商 : Brüel & Kjær
Model No. / 型號 : 4231
Serial No. / 編號 : 2713428
Supplied By / 委託者 : Action-United Environmental Services and Consulting
Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 29 June 2020

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 : Cheuk
K P Cheuk
Assistant Engineer

Certified By 核證 :
K C Lee
Engineer

Date of Issue 簽發日期 : 6 July 2020

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
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Certificate of Calibration
校正證書

Certificate No. : C203572
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C193756
CL281	Multifunction Acoustic Calibrator	CDK1806821
TST150A	Measuring Amplifier	C201309

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.1		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

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

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
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Appendix H

Database of Monitoring Results

Daytime Noise Measurement Results (dB) of N1

Date	Start Time	1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Leq30min, dB(A)	Façade Correction
		Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)		
1-Feb-21	9:36	55.1	58.5	50.5	54.0	56.5	50.5	55.4	59.0	49.5	55.4	59.0	50.0	55.0	58.5	50.5	55.3	58.5	50.5	55.1	58.1
11-Feb-21	13:48	55.6	48.0	40.2	46.2	47.2	40.7	53.5	48.2	41.7	45.5	46.2	40.6	52.5	47.7	41.5	43.5	45.5	40.6	51.6	54.6
17-Feb-21	14:17	64.7	47.5	40.2	43.6	45.7	40.2	43.5	45.7	39.7	49.7	46.6	40.5	41.2	43.3	38.9	41.2	43.1	37.1	57.2	60.2
24-Feb-21	11:17	64.6	53.8	42.5	50.9	48.3	41.5	46.4	49.4	40.3	45.6	48.8	40.3	45.6	48.6	40.5	44.4	46.4	40.3	57.2	60.2

Daytime Noise Measurement Results (dB) of N2a

Date	Start Time	1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Leq30min, dB(A)	Façade Correction
		Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)		
1-Feb-21	10:37	52.8	55.0	50.0	53.1	55.0	50.5	53.1	55.0	50.5	53.6	55.5	50.5	51.9	53.0	50.0	53.6	56.0	50.5	53.1	56.1
11-Feb-21	13:11	52.5	55.8	40.6	47.0	50.8	39.9	48.6	51.9	40.9	47.0	49.9	38.8	48.2	50.9	40.7	51.0	52.4	39.1	49.6	52.6
17-Feb-21	13:40	43.8	43.6	37.4	41.3	42.5	36.4	41.1	43.5	37.1	42.4	42.5	36.1	45.5	44.5	38.6	41.5	42.3	36.3	42.9	45.9
24-Feb-21	10:37	53.5	52.6	43.3	50.1	51.9	42.0	47.6	49.2	41.3	46.0	48.9	42.2	49.7	50.0	42.4	52.8	52.2	43.1	50.7	53.7

Daytime Noise Measurement Results (dB) of N3a

Date	Start Time	1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Leq30min, dB(A)	Façade Correction
		Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)		
1-Feb-21	13:45	60.2	62.5	51.5	59.4	63.0	52.0	58.0	61.5	51.0	57.4	61.0	52.0	57.1	60.5	52.0	58.2	61.5	53.0	58.5	61.5
11-Feb-21	15:39	72.9	62.9	41.0	44.2	48.7	40.3	54.0	52.1	39.5	61.4	63.7	41.5	50.5	52.5	42.0	52.5	55.1	43.7	65.5	68.5
17-Feb-21	16:08	50.9	52.5	37.6	45.2	49.7	35.9	48.0	51.1	37.8	44.4	49.5	36.7	48.0	51.2	37.5	46.5	51.2	39.7	47.7	50.7
24-Feb-21	9:17	58.4	58.0	52.8	58.1	60.3	54.5	70.6	66.2	55.2	58.1	58.3	54.4	75.8	73.9	55.3	76.3	81.5	54.8	72.0	75.0

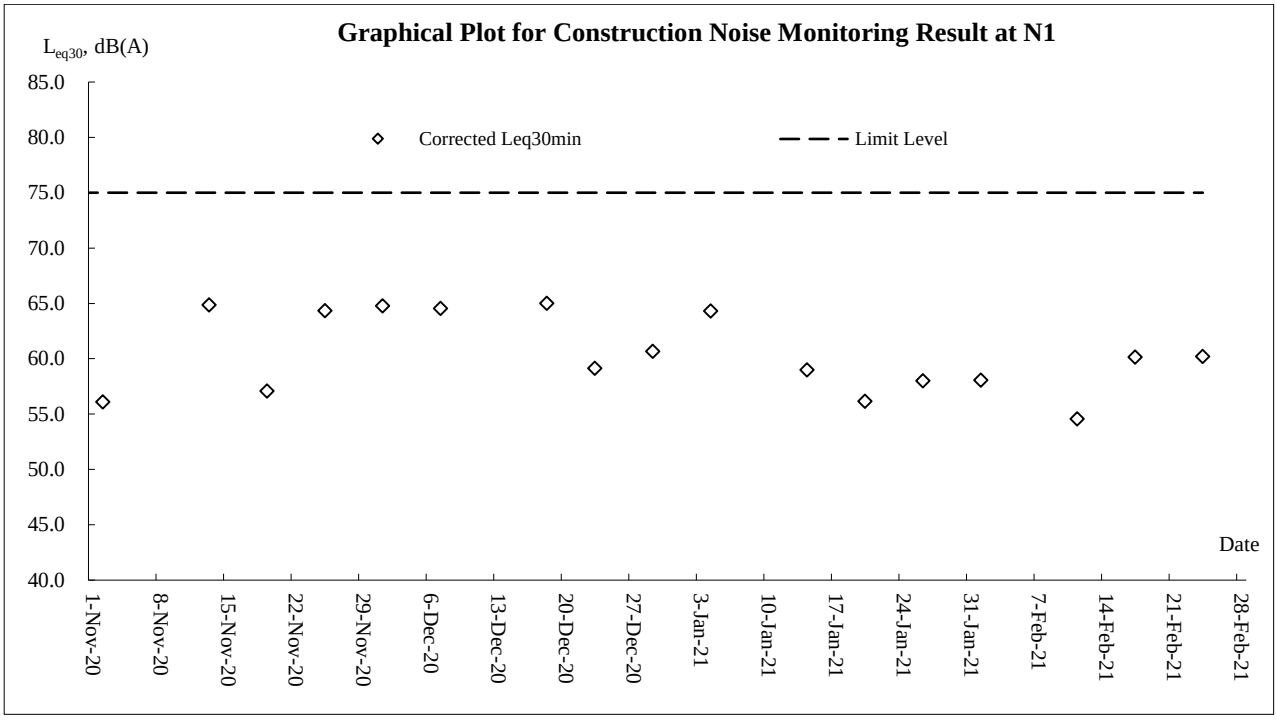
Daytime Noise Measurement Results (dB) of N4

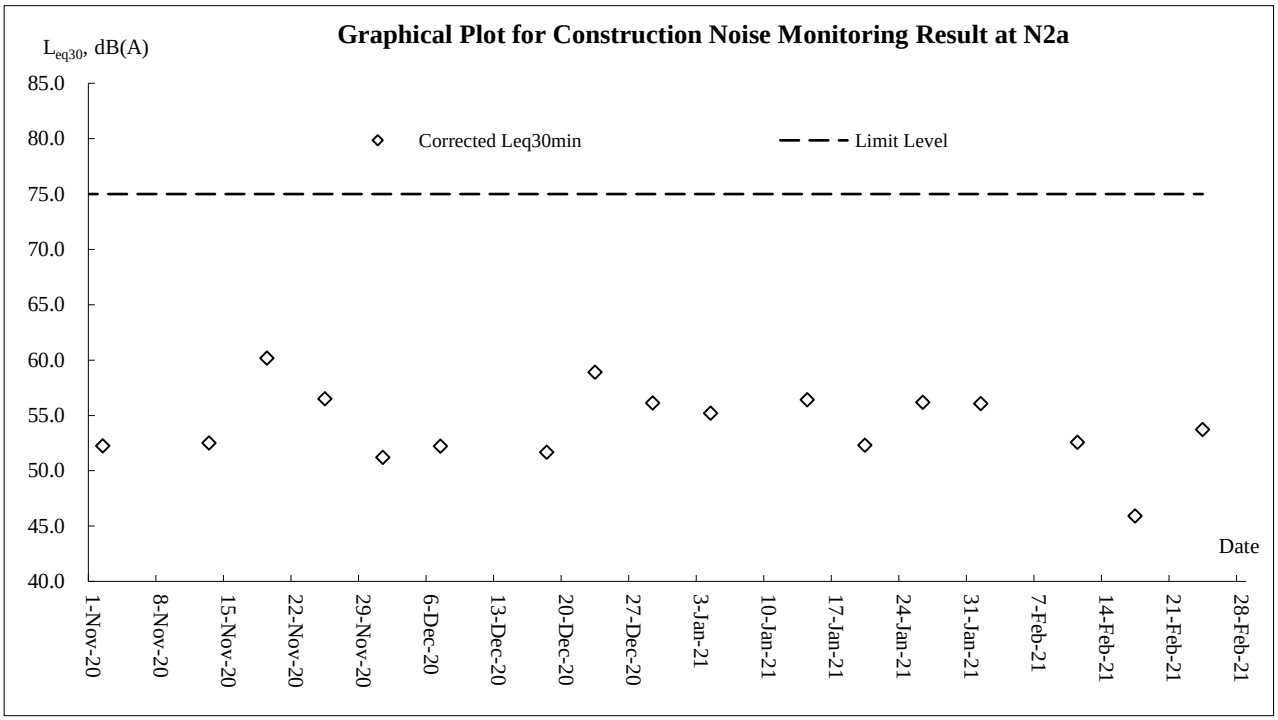
Date	Start Time	1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Leq30min, dB(A)	Façade Correction
		Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)		
1-Feb-21	14:39	59.3	62.5	52.5	61.9	65.5	54.0	61.6	65.5	54.5	61.3	65.0	51.0	61.5	65.0	53.5	60.9	64.0	55.5	61.2	64.2
11-Feb-21	9:26	70.8	53.2	41.1	47.5	50.0	40.7	46.4	49.0	39.7	46.5	48.3	40.7	50.6	50.1	40.0	51.2	51.3	38.1	63.2	66.2
17-Feb-21	9:37	66.7	48.2	34.0	50.5	44.2	34.5	49.6	44.7	33.7	47.5	46.5	33.7	43.5	43.8	32.7	46.5	46.9	33.7	59.2	62.2
24-Feb-21	9:58	74.5	57.6	49.3	63.1	53.9	49.0	69.6	60.2	42.3	65.0	51.9	40.2	47.7	51.0	42.4	48.8	50.2	43.1	68.5	71.5

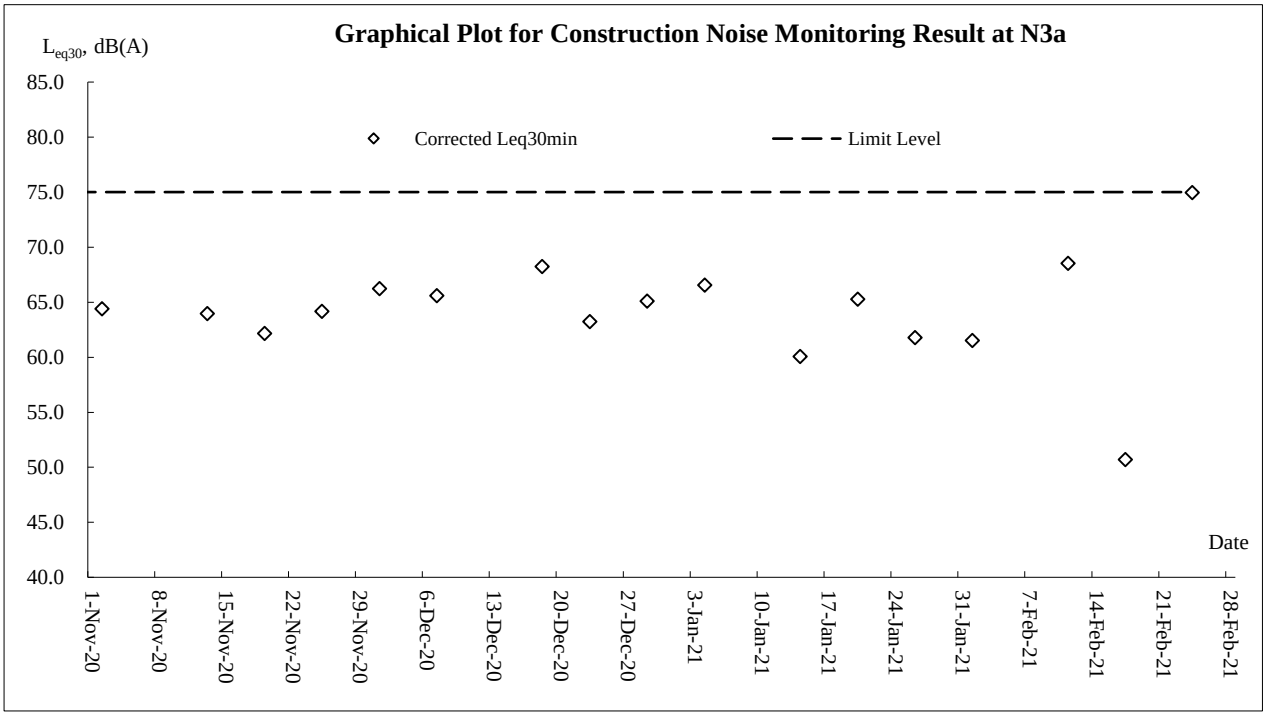
Appendix I

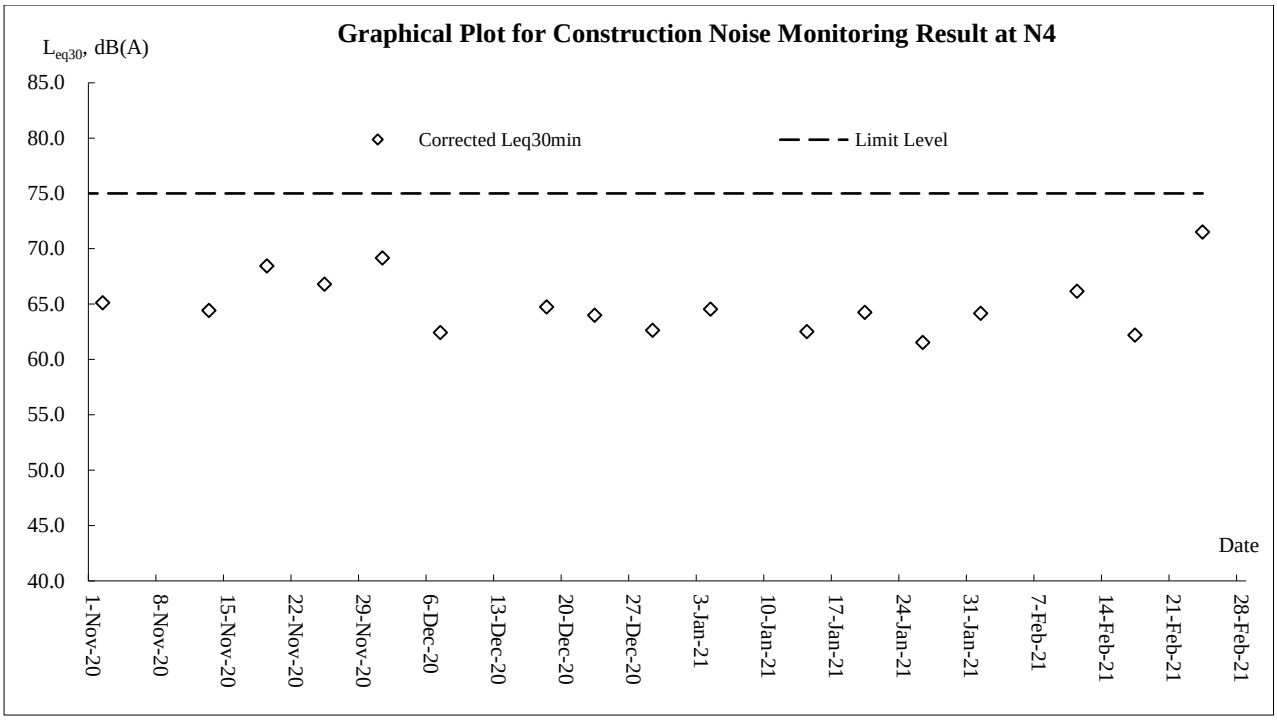
Graphical Plots of Monitoring Results

Construction Noise






Graphical Plot for Construction Noise Monitoring Result at N3a
Leq30, dB(A)
85.0
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
Corrected Leq30min
Limit Level
Date
1-Nov-20
8-Nov-20
15-Nov-20
22-Nov-20
29-Nov-20
6-Dec-20
13-Dec-20
20-Dec-20
27-Dec-20
3-Jan-21
10-Jan-21
17-Jan-21
24-Jan-21
31-Jan-21
7-Feb-21
14-Feb-21
21-Feb-21
28-Feb-21


Graphical Plot for Construction Noise Monitoring Result at N4
Leq30, dB(A)
85.0
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
Corrected Leq30min
Limit Level
Date
1-Nov-20
8-Nov-20
15-Nov-20
22-Nov-20
29-Nov-20
6-Dec-20
13-Dec-20
20-Dec-20
27-Dec-20
3-Jan-21
10-Jan-21
17-Jan-21
24-Jan-21
31-Jan-21
7-Feb-21
14-Feb-21
21-Feb-21
28-Feb-21

Appendix J

Waste Flow Table

Name of Department : EPD
Contract No: EP/SP/86/15

Monthly Summary Waste Flow Table for February 2021

Version: 0

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantity of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects (see Note 10)	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging (see Notes 4)	Plastics (see Notes 2 &4)	Chemical Waste	Others, eg. general refuse
	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)
sub-total up to 2020	**87.905**	0.000	0.000	82.531	5.209	0.165	317.086	1.174	0.045	0.000	0.343
Jan-21	**0.084**	0.000	0.000	0.000	0.016	0.068	0.000	0.000	0.000	0.000	0.007
Feb-21	**0.014**	0.000	0.000	0.000	0.014	0.000	20.400	0.013	0.651	0.000	0.007
Mar-21											
Apr-21											
May-21											
Jun-21											
Sub total (since 2019)	88.003	0.000	0.000	82.531	5.239	0.233	337.486	1.187	0.696	0.000	0.357
Jul-21											
Aug-21											
Sep-21											
Oct-21											
Nov-21											
Dec-21											
Total (since 2019)	88.003	0.000	0.000	82.531	5.239	0.233	337.486	1.187	0.696	0.000	0.357

Appendix K

Environmental Mitigation Implementation Schedule (Extracted from EM&A Manual)

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
Air Quality Impact (Construction)									
3.8.1.1	2.4	**General Dust Control Measures** Dust emissions could be suppressed by regular water spraying on site. In general, water spraying twice a day could reduce dust emission from active construction area by 50%. However, for the Project more frequent water spraying is proposed. Watering eight times per day, or once every 1.5 hours, is suggested at all active works areas in order to achieve a higher dust suppression efficiency of 87.5%.	Within construction site / Duration of the construction phase	Contractor		✓			EIA Recommendation and Air Pollution Control (Construction Dust) Regulation
3.8.1.2	2.4	**Best Practice For Dust Control** The relevant best practices for dust control as stipulated in the *Air Pollution Control (construction Dust) Regulation* should be adopted to further reduce the construction dust impacts of the Project. These best practices include: *Good Site Management* ▪ Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain a high standard of housekeeping to prevent emissions of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. *Disturbed Parts of the Roads* ▪ Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or ▪ Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road	Within construction site / Duration of the construction phase	Contractor		✓			EIA Recommendation and Air Pollution Control (Construction Dust) Regulation

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1]				Relevant Legislation & Guidelines
					Des	Con	Op	Dec	
		surface wet. *Exposed Earth* ▪ Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. *Loading, Unloading or Transfer of Dusty Materials* ▪ All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. *Debris Handling* ▪ Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. ▪ Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. *Transport of Dusty Materials* ▪ Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. *Wheel washing* ▪ Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. *Use of vehicles* ▪ The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. ▪ Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. ▪ Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely							

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. *Site hoarding* ▪ Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.							
Air Quality Impact (Operation)									
3.8.2	2.3	**Odour patrol at site boundary of the Project**	Site boundary / During operation stage (the need to continue the odour patrol after the end of the 2-year monitoring period would depend on the monitoring results and should be agreed with EPD)	OWTF Operator	✓		✓		EIAO-TM
3.8.2	2.4	**Install gas cleaning equipment and stack on the CHP and odour treatment unit** ▪ The preliminary design suggests the use of a two stage process involving either a biofilter or Ultraviolet Light (UV-C) together with ozone treatment as the first stage, and an activated carbon filter as the second stage for the odour treatment unit. It is recommended to install the UV-C and ozone treatment system with second stage active carbon filters as this has a lower footprint requirement than the biofilter option. However, the actual unit installed depends on the final design by the contractor in the design phase. ▪ The preliminary design incorporates a combination of thermal and catalytic treatment processes to remove pollutants from the exhaust gasses from the CHP. ▪ Both the odour treatment unit and the CHP emissions are suggested to be directed to a flue to aid the dispersion and minimise effects on ASRs.	CHP and odour treatment unit	Design Consultant / OWTF Operator	✓		✓		EIA Recommendation
Hazard Risk Assessment (Operation)									

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1]				Relevant Legislation & Guidelines
					Des	Con	Op	Dec	
4.9	3.2	The HA has assumed that the following "Good Practices" and "recommended design measures" for the safe operation of OWTF 2 shall be carried out as far as reasonably practicable: ▪ The process plant building will be provided with adequate number of gas detectors distributed over the various areas of potential leak sources to provide adequate coverage. ▪ All electrical equipment inside the building will be classified in accordance with the electrical area classification requirements. No unclassified electrical equipment will be used during operations or maintenance. ▪ Reference can be made to Codes of Practice and guidance issued in Europe that applies to places where explosive atmospheres may occur (called 'ATEX' requirements). These are covered as part of the European Directive: the Explosive Atmospheres Directive (99/92/EC) and the UK regulations, Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR). Where potentially explosive atmospheres may occur in the workplace, the requirements include, identifying and classifying (zoning) areas where potentially explosive atmospheres may occur; avoiding ignition sources in zoned areas, in particular those from electrical and mechanical equipment; where necessary, identifying the entrances to zoned areas; providing appropriate anti-static clothing for employees; and before they come into operation, verifying the overall explosion protection safety of areas where explosive atmospheres may occur. ▪ All safety valves design shall take into account discharging any released fluid to a safe location, or stopping misdirection of fluid flows in order to avoid hazardous outcome. ▪ Safety markings and crash barriers will be provided to the aboveground piping, digesters and the gas holder near the entrance. ▪ Lightning protection installations will be installed following IEC 62305, BS EN 62305, AS/NZS 1768, NFPA 780 or equivalent standards. ▪ A 10m high boundary wall with fire resistance will be	During design and operation phases	Design Consultant / OWTF Operator	✓		✓		EIAO & EIAO TM Annex 4

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		provided in the vicinity of the digester tanks, gasholders and gas purification equipment to protect the equipment against external fires, and to provide some protection to external areas from the effects of fire/explosion. ▪ Suitable fire extinguishers will be provided within the site. An External Water Spray System (EWSS) will be installed in appropriate areas, such as around the gasholders, gas purification, desulphurisation units, and digester areas. The facilities will also be equipped with fire and gas detection system and fire suppression system. Stringent procedures are implemented to prohibit smoking or naked flames to be used on-site. ▪ Fixed crash barriers will be provided in areas where process equipment is adjacent to the internal roadway to protect against vehicle collision. Adequate warning signage and lighting will also be provided and maximum speed limit will also be in place.							
Noise Impact (Construction)									
5.9.1	4.2.7	**Good Site Practice** Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: ▪ only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; ▪ machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; ▪ plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; ▪ mobile plant should be sited as far away from NSRs as possible; and ▪ material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site	Within construction site / During construction phase	Contractor		✓			EIAO, EIAO-TM and Noise Control Ordinance

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		construction activities.							
5.9.1	4.2.7	**Selection of Quieter PME** The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and British Standard, namely *Noise Control on Construction and Open Sites, BS 5228: Part 1: 2009* . It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	Within construction site / During construction phase	Contractor		✓			EIAO, EIAO-TM and Noise Control Ordinance
5.9.1	4.2.7	**Use of Movable Noise Barriers** Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	Within construction site / During construction phase	Contractor		✓			EIAO, EIAO-TM and Noise Control Ordinance
5.9.1	4.2.7	**Use of Noise Enclosure/ Acoustic Shed** The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and generator. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No.9/2010.	Within construction site / During construction phase	Contractor		✓			EIAO, EIAO-TM and Noise Control Ordinance
5.9.1	4.2.7	**Use of Noise Insulating Fabric** Noise insulating fabric can also be adopted for certain PME (e.g. pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	Within construction site / During construction phase	Contractor		✓			EIAO, EIAO-TM and Noise Control Ordinance
Noise Impact (Operation)									
5.9.2	4.2.7	**Fixed Plant Noise** Specification of the maximum allowable sound power levels of the proposed fixed plants should be followed. The following noise reduction measures should be considered as far as practicable during operation: ▪ Choose quieter plant such as those which have been effectively silenced;	Within construction site / During operation phase / Throughout operation phase	Design Consultant / Contractor	✓		✓		EIAO, EIAO-TM and Noise Control Ordinance

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		▪ Include noise levels specification when ordering new plant (including chillier and E/M equipment); ▪ Locate fixed plant/louver away from any NSRs as far as practicable; ▪ Locate fixed plant in walled plant rooms or in specially designed enclosures; ▪ Locate noisy machines in a completely separate building; ▪ Install direct noise mitigation measures including silencers, acoustic louvers and acoustic enclosure where necessary; and ▪ Develop and implement a regularly scheduled plant maintenance programme so that equipment is properly operated and serviced in order to maintain a controlled level of noise.							
Water Quality Impact (Construction)									
6.8.1.1	5.3	**Construction site runoff** The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts: ▪ At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractor prior to the commencement of construction; ▪ Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt	Within construction site / Duration of the construction phase	Contractor		✓			ProPECC Note PN 1/94

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1]				Relevant Legislation & Guidelines
					Des	Con	Op	Dec	
		removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction. ▪ All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. ▪ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. ▪ All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. ▪ Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. ▪ Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into							

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		foul sewers. ▪ Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. ▪ Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.							
6.8.1.2	5.3	**General construction activities** Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used.	Within construction site / During construction phase	Contractor		✓			ProPECC Note PN 1/94
6.8.1.3	5.3	**Excavation works** The construction programme should be properly planned to minimise excavation works during the wet season (April to September), temporarily exposed slope/soil surfaces should be covered by a tarpaulin or other means, as far as practicable. Interception channels should be provided (e.g. along the crest/edge of the excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 1/94.	Within construction site / During construction phase	Contractor		✓			ProPECC Note PN 1/94
6.8.1.4	5.3	**Accidental spillage** ▪ The Contractor should register as a chemical waste producer	Within construction site / During construction phase	Contractor		✓			ProPECC Note PN 1/94 and Waste Disposal

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		if chemical wastes are produced from construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. ▪ Maintenance of vehicles and equipment, involving activities with potential for leakage and spillage, should only be undertaken within areas appropriately equipped to control these discharges. ▪ Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. ▪ Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: – Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. – Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. – Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.							Ordinance
6.8.1.5	5.3	**Sewage effluent from construction workforce** Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be	Within construction site / During construction phase	Contractor		✓			ProPECC Note PN 1/94

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		responsible for appropriate disposal and maintenance.							
Water Quality Impact (Operation)									
6.8.2.1	5.3	**Sewage effluent and sewerage impact** In order to minimise the risk of exceeding capacity of the sewerage system, on-site underground storage of effluent is recommended for the OWTF 2, with a capacity of 6 hours of peak flow. Using the values presented in the preliminary design, the on-site storage required to buffer excess capacity would be equivalent to 30 m^3. A below ground effluent retention tank would function to store effluent produced during peak periods when usage of the Sha Ling pumping station is high. Effluent stored during such periods could then be pumped out of the retention tank and discharged into the public sewer during off-peak times when capacity is sufficient.	Within construction site / During design and operation phase	Design Consultant / OWTF Operator	✓		✓		EIA recommendations
6.8.2.2	5.3	**Wastewater generation from organic waste treatment processes** Wastewater must be collected and diverted to the wastewater treatment plant (WWTP). An adequately sized WWTP with technologies such as membrane bioreactor, reverse osmosis or multi-phase separation process or system should be provided for the OWTF 2. Polluting parameters in the effluent should be in compliance with the requirements as specified in the TM-DSS. *Leachate from the waste reception and composting process* ▪ A drainage system will be provided at the reception area connecting to the proposed onsite WWTP. The leachate would be treated in the WWTP and there would be no direct discharge of leachate. *Dewatering of the digestate from the separators* ▪ The wastewater generated from the dewatering of digestate from the digesters is expected to be around 229.18 m^3/day and a peak flow of 5.31L/s. The on-site WWTP will deploy suitable treatment process in order to reduce the pollution level to an acceptable standard. The effluent shall be treated according to the TM-DSS standard before discharging to foul sewers.	Within construction site / During design and operation phase	Design Consultant / OWTF Operator	✓		✓		TM-DSS, Water Pollution Control Ordinance

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		Condensate from biogas drying, odour treatment and ventilation system ▪ Condensate from biogas handling and wastewater from the odour treatment process would be collected and transferred to the WWTP. There is no direct discharge of wastewater to the sewer. *Washing of waste delivery trucks* ▪ Surplus wastewater generated from the vehicle washing facilities would be collected and transferred to the WWTP for further treatment before discharging to the foul sewer. *Untreated wastewater from wastewater treatment plant* ▪ Maintenance of the WWTP and its connection pipe work would be conducted regularly to confirm the condition of the holding tank and pipes. This will ensure early detection of any damage for repair or replacement. *Leakage of materials from WWTP* ▪ Regular scheduled maintenance of the WWTP will be carried out to confirm the condition of the facility and detect any damages at an early stage for repair or replacement.							
6.8.2.3	5.3	**Contaminated stormwater runoff and accidental spillages** Regular maintenance of plant facilities, as recommended in **Section 6.8.2.2** of the EIA report, will be performed to confirm the condition of plant facilities and detect any damage for repair or replacement. Training should be provided to the employees on handling accidental spillage, so that in such cases, actions can be carried out quickly to avoid runoff to nearby streams/drains.	Within construction site / During operation phase / Throughout operation phase	OWTF Operator			✓		TM-DSS; Water Pollution Control Ordinance
Waste Management Implications (Construction)									
7.6.1.1	6.3	**Good Site Practices** Recommendations for good site practices during the construction activities include: ▪ Obtain the relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);	Project construction site / Throughout construction stage / Until completion of all construction activities	Contractor		✓			Waste Disposal Ordinance; Regulation and the Land (Miscellaneous Provisions) Ordinance;

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		▪ Provide staff training for proper waste management and chemical handling procedures; ▪ Provide sufficient waste disposal points and regular waste collection; ▪ Provide appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; ▪ Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; ▪ Separate chemical wastes for special handling and disposal to licensed facilities for treatment; and ▪ Employ licensed waste collectors to collect waste.							Waste Disposal (Chemical Wastes) (General) Regulation; Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site
7.6.1.2	6.3	**Waste Reduction Measures** Recommendations to achieve waste reduction include: ▪ Design foundation works to minimise the amount of excavated material to be generated; ▪ Provide training on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; ▪ Sort demolition debris and excavated materials from demolition works to recover reusable/recyclable portions ▪ Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal ▪ Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force ▪ Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste	Project construction site / Throughout construction stage / Until completion of all construction activities	Contractor	✓	✓			Waste Disposal Ordinance
7.6.1.3	6.3	**Excavated and C&D Materials** In order to minimise impacts resulting from collection and transportation of C&D material for off-site disposal, the	Project construction site / Throughout construction stage / Until completion	Contractor	✓	✓			Waste Disposal Ordinance ; DEVB Technical

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		excavated materials should be reused on-site as fill material as backfilling material and for landscaping works far as practicable. Other mitigation requirements are: ▪ A Waste Management Plan (WMP), which becomes part of the Environmental Management Plan (EMP), should be prepared in accordance with ETWB TC(W) No.19/2005; ▪ A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) should be adopted for easy tracking; and ▪ In order to monitor the disposal of excavated and non-inert C&D material at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to DEVB TC(W) No. 6/2010).	of all construction activities						Circular (Works) No.6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials; Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site
7.6.1.4	6.3	**Chemical Waste** Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste (such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractor should employ a licensed collector to transport and dispose of the chemical wastes, to either the CWTC in Tsing Yi, or any other licensed facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Project construction site / Throughout construction stage / Until completion of all construction activities	Contractor		✓			Code of Practice on the Packaging Labelling and Storage of Chemical Wastes; Waste Disposal (Chemical Waste) (General) Regulation
7.6.1.5	6.3	**General Refuse** General refuse should be stored in enclosed bins or compaction units separated from excavated and non-inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Project construction site / Throughout construction stage / Until completion of all construction activities	Contractor		✓			Waste Disposal Ordinance and Public Health and Municipal Services Ordinance - Public Cleansing and Prevention of Nuisances

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
									Regulation
Waste Management Implications (Operation)									
7.6.2.1	6.3	**Good site practices** Adoption of the following good operational practices should be recommended to minimise waste management impacts: ▪ Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28); ▪ Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site; ▪ Use of a waste haulier licensed to collect specific category of waste; ▪ A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of solid wastes at public filling facilities and landfills, and to control fly tipping. Reference should be made to DEVB TC(W) No. 6/2010. ▪ Training of site personnel in proper waste management and chemical waste handling procedures; ▪ Separation of chemical wastes for special handling and appropriate treatment at a licensed facility; ▪ Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors; ▪ Provision of sufficient waste disposal points and regular collection for disposal; ▪ Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers; and, ▪ Implementation of a recording system for the amount of	Construction site / On a regular basis / Throughout operation stage	OWTF Operator			✓		Waste Disposal Ordinance; Waste Disposal (Chemical Waste) (General); Regulation and the Land (Miscellaneous Provision) Ordinance; DEVB Technical Circular (Works) No. 6/2010.

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		wastes generated, recycled and disposed of (including the disposal sites).							
7.6.2.2	6.3	**Waste reduction measures** Adoption of the following good operational practices should be recommended to ensure waste reduction: ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; ▪ Encourage collection of aluminium cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separate labelled bins should be provided to help segregate this waste from other general refuse generated by the work force; and ▪ Any unused chemicals or those with remaining functional capacity should be reused as far as practicable.	Construction site / On a regular basis / Throughout operation stage	OWTF Operator			✓		Waste Disposal Ordinance; Waste Disposal (Chemical Waste) (General); Regulation and the Land (Miscellaneous Provision) Ordinance
7.6.2.3	6.3	**Waste generated from pre-treatment process** Wastes generated from pre-treatment process should be recycled as far as possible. Wastes generated from pre-treatment process should also be separated from any chemical waste and stored in covered skips. The recyclables should be collected by licensed collectors, while the rest of the waste should be removed from the site on a daily basis to minimise odour, pest and litter impacts. Open burning must be strictly prohibited.	Pre-treatment process / Throughout operation stage	OWTF Operator			✓		Waste Disposal (Chemical Waste) (General)
7.6.2.4	6.3	**Chemical Waste** ▪ Chemical waste generated from machinery maintenance and servicing should be managed in accordance with the Code of Practice on the Packaging, Labelling and storage of Chemical Wastes under the provisions of Waste Disposal (Chemical Waste) (General) Regulation. The chemical waste should be collected by drum-type containers and, when transported off-site, removed by licensed chemical waste contractors. Alternatively, some of the chemical waste may be retained on-site for re-use by the Project in the manufacture of biogas or other products, subject to their composition being confirmed as suitable for such application.	Construction site Throughout operation stage	OWTF Operator			✓		Code of Practice on the Packaging Labelling and Storage of Chemical Wastes; Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		▪ Plant / equipment maintenance schedules should be planned in order to minimise the generation of chemical waste. ▪ Non-recyclable chemical wastes and lubricants should be disposed of at appropriate facilities, such as CWTC. Copies or counterfoils from collection receipts issued by the licensed waste collector should be kept for recording purpose. ▪ Recyclable chemical waste will be transported off-site for treatment by a licensed collector. The Contractor will need to register with EPD as a chemical waste producer.							
7.6.2.5	6.3	**General Refuse** ▪ Waste generated in site offices should be reduced through segregation and collection of recyclables. To promote the recycling of wastes such as used paper, aluminium cans and plastic bottles, it is recommended that recycling bins should be clearly labelled and placed at locations with easy access. For the collection of recyclable materials, they should be collected by licensed collectors. ▪ General refuse, other than segregated recyclable wastes, should be separated from any chemical waste and stored in covered skips. The general refuse should be removed from the site on a daily basis to minimise odour, pest and litter impacts. Also, open burning of refuse must be strictly prohibited.	Construction site / On a regular basis / Throughout operation stage	OWTF Operator			✓		Waste Disposal Ordinance
Ecological Impact (Construction)									
8.7	7.3	For precautionary purposes and to further ensure that no wild flora species of conservation interest will be affected, prior to commencement of any construction works, it is recommended to conduct a detailed vegetation survey as baseline monitoring to update the exact locations, number and condition of individuals of *Aquilaria sinensis* and any other floral species of conservation interest within the Project Area. A Vegetation Survey Report summarizing the findings and recommendations of the detailed vegetation survey should be prepared and submitted to AFCD for approval no later than one month prior to commencement of construction works.	Before Project commencement	OWTF Operator	✓				EIAO-TM
8.7	7.3	During construction phase, erection of a temporary protective	Throughout construction	OWTF Operator		✓			EIAO-TM

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		fence along the plantation area where trees and vegetation, including those of conservation concern identified under the detailed vegetation survey, would be retained within the Project Area is recommended for precautionary purposes to avoid any potential impact from construction activities such as vehicle movement and materials storage. Establishment of the protective fence could also raise the awareness of personnel to be present and protection of the plants. While the protective fence should be properly maintained, monitoring of individuals of *Aquilaria sinensis* and any other floral species of conservation interest identified in the detailed vegetation survey during construction phase on a monthly basis should be conducted to make sure that they are not affected by the construction works of the Project.	stage						
Ecological Impact (Operation)									
		No mitigation measure is required.							
Landscape and Visual Impact (Construction)									
Table 10.7 (CP1)	Table 8.1 (CP1)	**Preservation of Existing Vegetation** The development proposals would avoid disturbance to the existing trees as far as practicable within the confines of the development site. A preliminary tree survey has been undertaken to establish the existing resources. A tree survey review with formal tree removal application will be submitted to the relevant government departments for approval in accordance with ETWB TC(W) 03/2006 Tree Preservation, during the detailed design phase of the Project. Based on the preliminary findings it would be possible to retain 441 of the existing trees. If possible, all trees which are not in conflict with the proposals would be retained and shall be protected through the means of fencing, where appropriate, to prevent potential damage to tree canopies and root zones from vehicles and materials storage. Specifications for the protection of existing trees will be circulated to the relevant government authorities for approval together with the formal tree removal application.	Construction site / Throughout construction stage / Until completion of all construction activities	Contractor	✓	✓			Technical Circular (Works) No. 3/2006
Table 10.7 (CP2)	Table 8.1 (CP2)	**Control of site construction activities** ▪ Storage of materials should be carefully arranged to minimise potential landscape and visual impact.	Construction site / Throughout construction stage / Until completion	Contractor	✓	✓			EIAO-TM

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		▪ The location and appearance of site accommodation should be carefully designed to minimise potential landscape and visual impact. ▪ Site lighting should be carefully designed to prevent light spillage, ▪ Extent of the works area and construction period should be minimised as far as practicable. ▪ Screen hoarding with compatible design to blend into the surrounding natural environmental should be considered. ▪ Temporary works areas should be reinstated at the earliest possible opportunity.	of all construction activities						
Table 10.7 (CP3)	Table 8.1 (CP3)	**Transplantation of existing trees** Under current proposal, no tree is recommended to be transplanted since the trees in conflict with the proposed works are not suitable to be transplanted. However, should transplantation be proposed in the detailed design stage after an update tree survey, the recommended final recipient sites should be adjacent to their current locations. Enough time should be reserved for tree transplantation works to increase the survival rate of the transplanting trees. To ensure the survival of transplanted trees, protection work should be considered. The tree transplantation proposal will be submitted to relevant authorities for approval together with the formal tree removal application.	Construction site / Throughout construction stage / Until completion of all construction activities	Contractor	✓	✓			Technical Circular (Works) No. 3/2006
Landscape and Visual Impact (Operation)									
Table 10.8 (OP1)	Table 8.2 (OP1)	**Design of the Proposed OWTF** OWTF will incorporate design features as part of design mitigation measures including ▪ **Integrated design approach** - the location of OWTF should be within the existing Livestock Waste Composting Plant, as far as technically feasible. The location and orientation of the OWTF should be away from landscape and visually sensitive areas such as ponds and woodlands. ▪ **Building massing** – the proposed use of simple responsive design includes having specific height profile requirement	Construction site / During design stage	Design Consultant / OWTF Operator	✓				EIAO-TM

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		such as, single-storey, lower than the adjacent building structures, and avoiding large built structure for supporting facilities to reduce the intrusion of mass in the rural areas. ▪ **Treatment of built structures** – the structural design should seek to reduce the apparent visual mass of the facilities further through the use of natural materials such as wooden frames or other sustainable materials such as recycled plastics. ▪ **Responsive building finishes** – Natural tones should be considered for the colour palette for proposed structures. Non-reflective finishes are recommended on the outward facing building facades to reduce glare effect. ▪ **Responsive lighting design –** Aesthetic design of architectural and lighting with following glare design measures: – Directional and full cut off lighting is recommended within the boundaries of OWTF to minimise light spillage to the surroundings; – Minimise geographical spread of lighting, only applying for safety at the key access points and staircases; and Limited lighting intensity to meet the minimum safety and operation requirement.							
Table 10.8 (OP2)	Table 8.2 (OP2)	**Amenity / Compensatory Planting** Tree retention within the works area is considered to be important. New tree plantings will be concentrated in the proposed amenity areas along the boundaries of the site and along the exterior of OWTF buildings. Although a preliminary planting proposal is not yet available at the moment of producing this EIA Report, anticipated new tree planting within the Project site should be able to fully compensate for the loss of 14 trees proposed to be felled in terms of both quantity and quality. 441 existing trees will be retained through preserving them at their current locations. Establishment of newly planted trees is expected. Trees with high amenity value will be placed along the access routes to provide shade and soften the hard structures of OWFT buildings. Amenity plantings will utilise native tree species found on existing neighbouring slopes or	Construction site / during design and operation stage	Design Consultant / OWTF Operator	✓		✓		Technical Circular (Works) Nos. 7/2002 and 3/2006

EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Implementation Stage[1] Des	Con	Op	Dec	Relevant Legislation & Guidelines
		woodland areas to improve the ecological connectivity between existing habitats and create a coherent landscape network. Tree species with aggressive roots should be avoided to prevent damage to OWTF buildings and structures. Trees with high or moderate amenity value and low to medium maintenance should be considered as part of landscape resource enhancement. Recommended tree species include *Celtis sinensis* and *Liquidambar formosana*. These proposals will be subjected to review at detail design stage of the Project.							
Table 10.8 (OP3)	Table 8.2 (OP3)	**Treatment of Slopes** In accordance with GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment for Slopes", these engineering structures will be aesthetically enhanced through the use of soft landscape works including tree and shrub planting to give man-made slopes a natural appearance, blending into the natural landscape. Whip-sized plantings are preferred on the face of soil cut slopes, at the crest and toe of the slope and within berm planters. These smaller, younger plants can adapt to their new growing conditions quicker than larger sized stock and establish a naturalistic effect rapidly. Recommended tree species include *Mallotus paniculatus, Broussonetia papyrifera* and *Alangium chinense*.	Construction site / during design and operation stage	Design Consultant / OWTF Operator	✓		✓		GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment for Slopes
Table 10.8 (OP4)	Table 8.2 (OP4)	**Amenity enhancement** Rooftop greening and vertical greening to mitigate the visual impact of taller structures can soften the façade of OWTF structures. Frameworks utilised for vertical greening should appear naturalistic.	Construction site / during design and operation stage	Design Consultant / OWTF Operator	✓		✓		Technical Circular (Works) No. 7/2002

Remarks:
1. Des – Design Stage, C – Construction Stage, O – Operation, Dec - Decommissioning