

JOB NO.: TCS01062/19

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

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT (DECEMBER 2022)

PREPARED FOR AJA JOINT VENTURE

Date	Reference No.	Prepared By	Certified By
5 January 2023	TCS01062/19/600/R0282v1	Att	An

Martin Li (Environmental Consultant) Tam Tak Wing (Environmental Team Leader)

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Attn: Mr. Chris Leung

6 January 2023

Dear Sir

Contract No. EP/SP/86/15 Organic Waste Treatment Facilities Phase 2 Monthly Environmental Monitoring & Audit Report (December 2022)

Referring to your letter referenced above dated 5 January 2023, pursuant to Permit Condition 3.4 of the Environmental Permit No.EP-01/460/2013/A and Further Environmental Permit No.FEP-01/460/2013/A, we hereby verify that the report ref. no. TCS01062/19/600/R0282v1 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 3437.

Yours faithfully

Ricky Chui Independent Environmental Checker

cc	EPD –	Mr. Sunny Chiu, Mr. Jason Tsang, Mr. Julian Lam Mr. W.W. Lau
		Mr. Peter Wong, Mr. Peter Tang, Mr. Gilbert Wong, Mr. David Ng
	AECOM –	Mr. Desmond Ng, Mr. Ben Tsang, Mr. Philip Cheung
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		Ms. Beth Biddle, Mr. Gabriel Wong
	AUES –	Mr. T.W. Tam, Mr. Martin Li



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 31 December 2022 (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
	Leq (30min) Daytime	16
Construction Noise	Leq (5min) restricted hours 19:00-07:00 including public holidays and Sundays	36
Inspection / Audit	ET Regular Environmental Site Inspection	4

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES05 No 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	Peri	i od					

Environmental	Monitoring	Action	Limit	Event &	z Action
Issues	Parameters	Level	Level	Investigation Results	Corrective Actions
Construction	Leq _{30min} Daytime	0	0	NA	NA
Noise	Leq _{5min} Restricted hour	0	0	NA	NA

SITE INSPECTION

ES06 In the Reporting Period, weekly joint site inspections to evaluate the site environmental performance had been carried out by the representative of the Consultants, Independent Environmental Checker (IEC), ET and the Contractor on 7th, 14th, 21st and 28th December 2022. 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

Donouting Douted	Enviror	Related with the		
Reporting Period	Frequency	Cumulative	Complaint Nature	Works Contract
1 – 31 December 2022	0	7	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

Departing Daried	Enviror	Related with the		
Reporting Period	Frequency	Cumulative	Complaint Nature	Works Contract
1 – 31 December 2022	0	0	NA	NA

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

Reporting Period	Environ	Related with the		
Reporting reriou	Frequency	Cumulative	Complaint Nature	Works Contract
1 – 31 December 2022	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 and noise barriers 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. FEP-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, granulator/granulation building, 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 **37th EM&A** monthly report presenting the construction noise monitoring results and site inspection findings from **1st to 31st December 2022** (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

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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 3-month rolling construction program of the Project is enclosed in *Appendix D*; and the major construction activities undertaken in the Reporting Period is presented as below:
 - AD Tanks AD1 and AD3 Roof slab works
 - Footbridge Piers construction work in-progress
 - Sitewide underground utilities Retaining wall in front of Admin Building



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*.

		License/Permit Status			
Item	Description	Permit no./ account	Valid Period	Status	
		no./ Ref. no.	From To	Status	
1	Notification pursuant to	Application No.	9 Sep NA	Valid	
	Air pollution Control	448863	2019		
	(Construction Dust)				
	Regulation				
2	Chemical Waste Producer	Ref. No.	9 Oct NA	Valid	
	Registration	5211-641-A2957-01	2019		
3	Water Pollution Control	Application No.		Application	
	Ordinance - Discharge	448913		made on 10	
	License			Sep 2019	
4	Waste Disposal	Account No. 7035307	2 Oct NA	Valid	
	Regulation - Billing		2019		
	Account for Disposal of				
	Construction Waste				
5	Further Environmental	FEP-01/460/2013/A	14 Sep NA	Valid	
	Permit		2020		
6	Construction Noise Permit	GW-RN0602-22	20 Jul 12 Jan	Valid	
			2022 2023		
7	Waste Water Discharge	WT00035196-2019	20 Mar 31 Mar	Valid	
	License		2020 2025		

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



3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 MONITORING PARAMETERS

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*.

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 L₁₀ and L₉₀ shall also be obtained for reference. Leq(5min) if construction works are extended to restricted hours 19:00-07:00 including public holidays and Sundays 		

Table 3-1Summary of EM&A Requirements

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. Since two of the designated monitoring locations N2 and N3 were found not accessible, alternative monitoring locations N2a and N3a were therefore proposed for the noise monitoring and were approved by EPD on 1 June 2021. Details of the locations for construction noise monitoring in the Reporting Period is listed in *Table 3-2* and showed in *Appendix C*.

Tuble 5 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	

Table 3-2Impact Monitoring Stations – Construction Noise

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
- 3.4.2 If construction works are extended to restricted hours 19:00-07:00 in normal working days (Monday to Saturday), and 00:00-24:00 during public holidays including Sunday, additional weekly impact monitoring should be carried out during the respective restricted hour periods. Leq_(5min) measurements should be employed during the restricted hours.

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.



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

Table 3-3	Construction	Noise Monitorin	ng Equipment
1401000	compet action		S Equipment

Equipment	Model
Integrating Sound Level Meter	Rion NL-52
Calibrator	Rion NC-73
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908 Wind Speed Indicator

3.6 MONITORING METHODOLOGY

- 3.6.1 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.
- 3.6.2 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.
- 3.6.3 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.
- 3.6.4 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.
- 3.6.5 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*.



Monitoring Location	Action Level Limit Level in dB(
Time Period:	0700-1900 hours on normal weekdays			
N1				
N2a	When one or more documented			
N3a	complaints are received	75 dB(A)		
N4				
Time Period:	19:00-07:00 in normal working days (Monday to Saturday), an 00:00-24:00 during public holidays including Sunday			
N1				
N2a	When one or more documented			
N3a	complaints are received	60 dB(A)		
N4				

Table 3-4Action and Limit Levels for Construction Noise

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. Additional weekly noise monitoring during restricted hours were also performed due to construction works were carried out during public holiday including Sunday. 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 and **36** sessions of additional weekly monitoring during restricted hours 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) was added according to acoustical principles and EPD guidelines. For the approved alternative monitoring locations N2a and N3a, an additional distance correction of +1 dB(A) and +3 dB(A) respectively were applied. The daytime noise monitoring results are summarized in **Table 4-1 to Table 4-4** and the noise monitoring result during restricted hours are summarized in **Table 4-5 to Table 4-8**. 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
1able 4-1	Daytime Construction Noise impact Monitoring Results at N1

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A)) L _{eq30min}
9-Dec-22	13:00	13:30	55.6
15-Dec-22	9:30	10:00	63.4
21-Dec-22	13:00	13:30	60.6
30-Dec-22	13:23	13:53	55.9

Table 4-2	Daytime Construction Noise Impact Monitoring Results at N2a
1avic = 4	Day time Construction rouse impact monitoring results at $1/2a$

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A)) L _{eq30min}
9-Dec-22	13:33	14:03	63.1
15-Dec-22	10:02	10:32	50.1
21-Dec-22	13:32	14:02	58.0
30-Dec-22	13:55	14:25	58.6

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

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A)) Leq30min
9-Dec-22	14:45	15:15	66.7
15-Dec-22	11:12	11:42	65.3
21-Dec-22	14:42	15:12	69.9
30-Dec-22	15:05	15:35	67.8

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

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A)) Leq30min
9-Dec-22	14:08	14:38	68.3
15-Dec-22	10:37	11:07	64.4
21-Dec-22	14:06	14:36	56.3
30-Dec-22	14:28	14:58	57.5



Table 4-5	Additional Noise Im	pact Monitoring	Results during	Restricted Hours at N1
	induitional rouse in	pace monitoring	itesuites autility	itestiteteu itouis ut iti

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A)) L _{eq5min}
2-Dec-22	20:21	20:26	47.0
4-Dec-22	9:59	10:04	51.2
8-Dec-22	20:08	20:13	48.1
11-Dec-22	10:15	10:20	53.4
15-Dec-22	19:54	19:59	54.2
18-Dec-22	10:15	10:20	51.6
21-Dec-22	20:08	20:13	53.0
25-Dec-22	9:54	9:59	57.5
29-Dec-22	19:54	19:59	54.4

Table 4-6

Additional Noise Impact Monitoring Results during Restricted Hours at N2a

Date	Time of	Time of	Measurement Result (dB(A))
Date	Starting	Finishing	L _{eq5min}
2-Dec-22	19:59	20:04	51.1
4-Dec-22	9:29	9:34	47.7
8-Dec-22	19:44	19:49	51.5
11-Dec-22	9:30	9:35	53.3
15-Dec-22	19:32	19:37	48.5
18-Dec-22	9:30	9:35	52.6
21-Dec-22	19:34	19:39	45.1
25-Dec-22	9:23	9:28	49.0
29-Dec-22	19:27	19:32	54.4

 Table 4-7
 Additional Noise Impact Monitoring Results during Restricted Hours at N3a

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A)) Leq5min
2-Dec-22	20:49	20:54	48.0
4-Dec-22	10:51	10:56	54.2
8-Dec-22	20:36	20:41	50.3
11-Dec-22	10:39	10:44	57.5
15-Dec-22	20:26	20:31	58.7
18-Dec-22	10:16	10:21	56.8
21-Dec-22	20:37	20:42	53.7
25-Dec-22	10:14	10:19	56.0
29-Dec-22	20:26	20:31	56.6

 Table 4-8
 Additional Noise Impact Monitoring Results during Restricted Hours at N4

Date	Time of Starting	Time of Finishing	Measurement Result (dB(A)) L _{eq5min}
2-Dec-22	19:32	19:37	43.1
4-Dec-22	10:31	10:36	49.4
8-Dec-22	19:22	19:27	44.7
11-Dec-22	9:51	9:56	49.7
15-Dec-22	19:10	19:15	50.9
18-Dec-22	10:38	10:43	49.2
21-Dec-22	19:10	19:15	52.2
25-Dec-22	10:45	10:50	54.7
29-Dec-22	19:05	19:10	53.1

4.2.2 As shown in *Table 4-1 to 4-4*, all the measured results during normal daytime were below 75dB(A) of the acceptance criteria. In addition, all the measured results during restricted hours shown in *Table 4-5 to 4-8* were below 60 dB(A) of the acceptance criteria as set out in Technical Memorandum on Noise from Construction Work other than Percussive Piling.



4.2.1 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 noise 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)	1.193	-
Reused in this Contract (Inert) ('000m ³)	0	-
Reused in other Projects (Inert) ('000m ³)	0	-
Disposal as Public Fill (Inert) ('000m ³)	1.193	TM38

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

Type of Waste	Quantity	Disposal Location
Recycled Metal ('000kg)	0	-
Recycled Paper / Cardboard Packing ('000kg)	0	-
Recycled Plastic ('000kg)	0	-
Chemical Wastes ('000kg)	0	-
General Refuses ('000m ³)	0.140	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, joint site inspection for the Project to evaluate site environmental performance was carried out by the ER, IEC representative, ET and the Contractor on 7, 14, 21 and 28 December 2022. 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 0-1 She Observations during the Weekly Inspection				
Date	Findings / Deficiencies	Follow-Up Status		
7 December 2022	• The Contractor was reminded to spray water regularly at dry haul road.	Reminder only.		
	• The Contractor was reminded to cover open stockpiles properly within site area.	Reminder only.		
14 December 2022	• The Contractor was reminded to dispose of construction waste regularly within site area.	Reminder only.		
21 December 2022	• The Contractor was reminded to remove stockpiles stored near site boundary to avoid potential surface fun-off out of site.	Reminder only.		
28 December 2022	• Dusty materials near site boundary was observed. The Contractor was advised to remove it to avoid potential surface run-off out of site.	To be followed in next reporting period.		

 Table 6-1
 Site Observations during the Weekly Inspection



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 7-1Statistical Summary of Environmental Complaints

Donouting Dowiod	Environmental Complaint Statistics		
Reporting Period	Frequency	Cumulative	Complaint Nature
1 – 31 December 2022	0	7	NA

Table 7-2 Statistical Summary of Notification of Summons

Departing Devied	Environmental Summons Statistics		
Reporting Period	Frequency	Cumulative	Summons Nature
1 – 31 December 2022	0	0	NA

Table 7-3 Statistical Summary of Successful Prosecutions

Donouting Douiod	Environmental Prosecution Statistics		
Reporting Period	Frequency	Cumulative	Prosecution Nature
1 – 31 December 2022	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*.

i .	
Issues	Environmental Mitigation Measures
Water Quality	 Any wastewater generated was 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.

 Table 8-1
 Environmental Mitigation Measures

8.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 8.2.1 Tentative construction activities to be undertaken in **January 2023** should be included:
 - AD Tanks AD1 and AD3 Roof slab works
 - Footbridge Piers construction work in-progress
 - Sitewide underground utilities Retaining wall in front of Admin Building
 - •



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 31 December 2022.
- 9.1.2 In the Reporting Period, no construction noise limit level exceedance during daytime and restricted hours was recorded. In addition, 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, joint site inspection to evaluate the site environmental performance for the Project was carried out by the ER, IEC representative, ET and Contractor on 7, 14, 21 and 28 December 2022. 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.

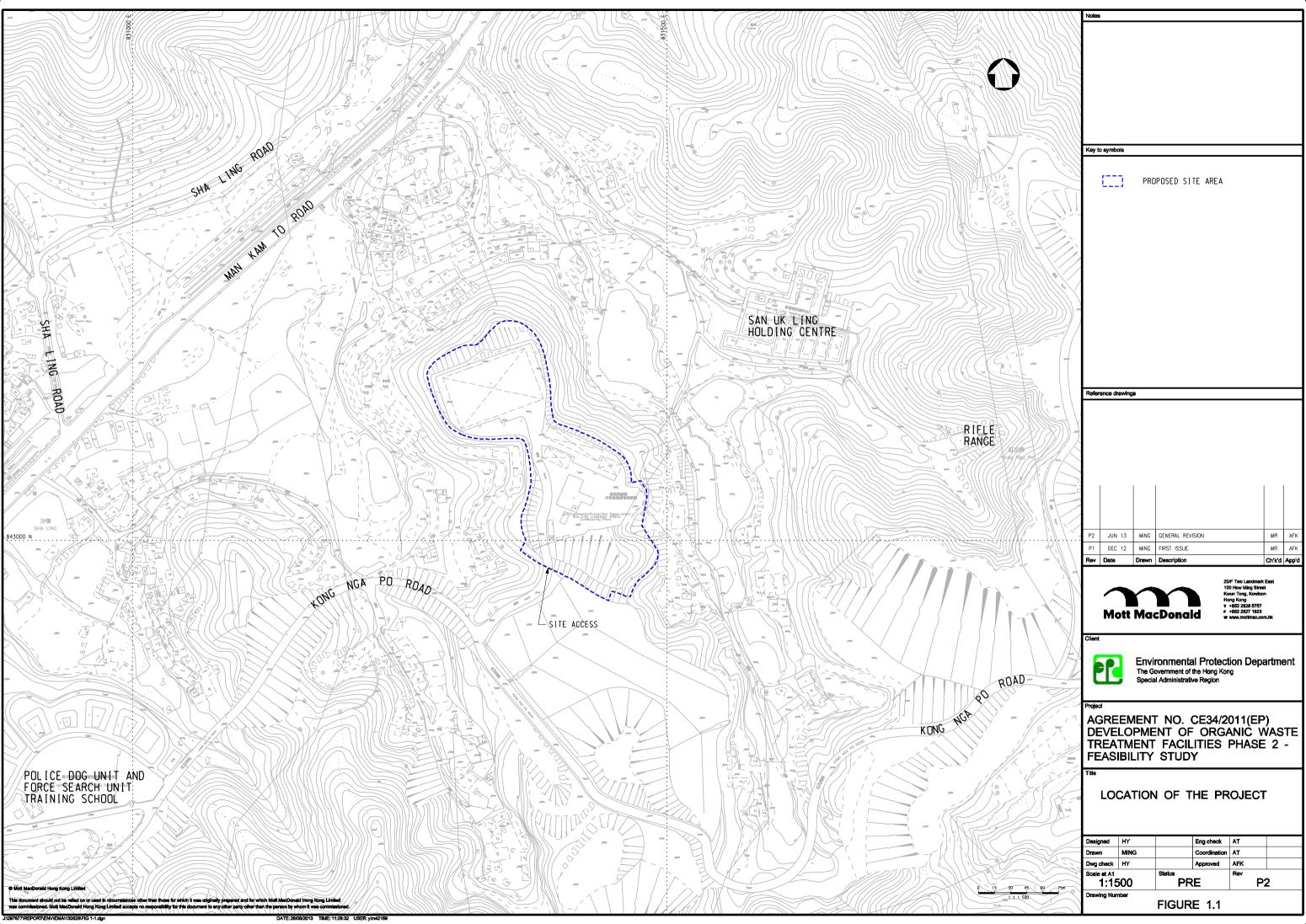
9.2 RECOMMENDATIONS

- 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 and the latest CNP.
- 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



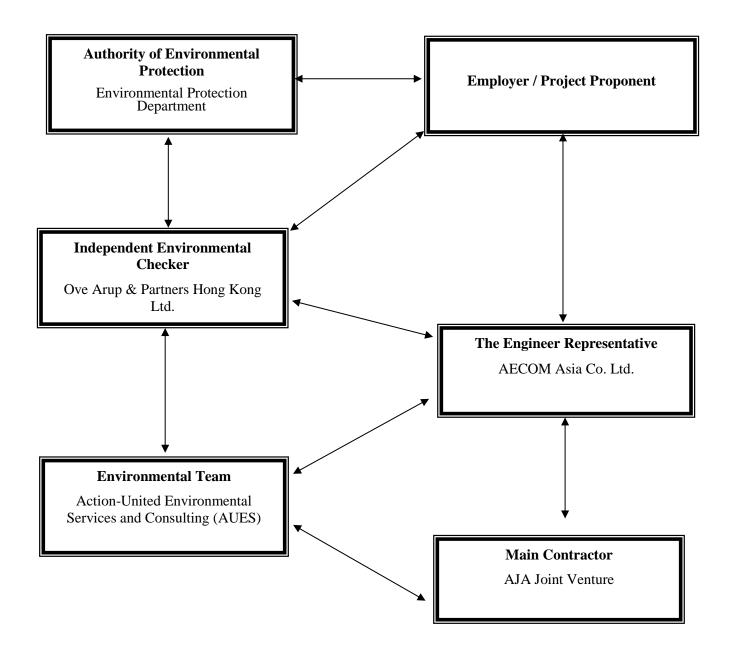


Appendix B

Organization Chart



Project Organization Chart





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	Ivan Yung	5723 7750	3010 8507
ARUP	Independent Environmental Checker	Ricky Chui	2268 3437	2268 3380
ARUP	Engineer (Safety, Environment and Planning)	Edmond Tang	3447 6181	2268 3955
AJAJV	Project Manager	Victor Wu	2862 5013	2862 5013
AJAJV	Construction Manager	Chris Leung	9210 7116	9210 7116
AJAJV	Project Environmental Manager	Samuel Tsui	9455 5865	6114 9590
AJAJV	Assistant Environmental Officer	Lee Yuk Lun	6416 5061	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

Contact Details of Key Personnel for the Project

Legend:

EPD (*Employer*) – *Environmental Protection Department*

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

AJAJV (Main Contractor) – AJA Joint Venture

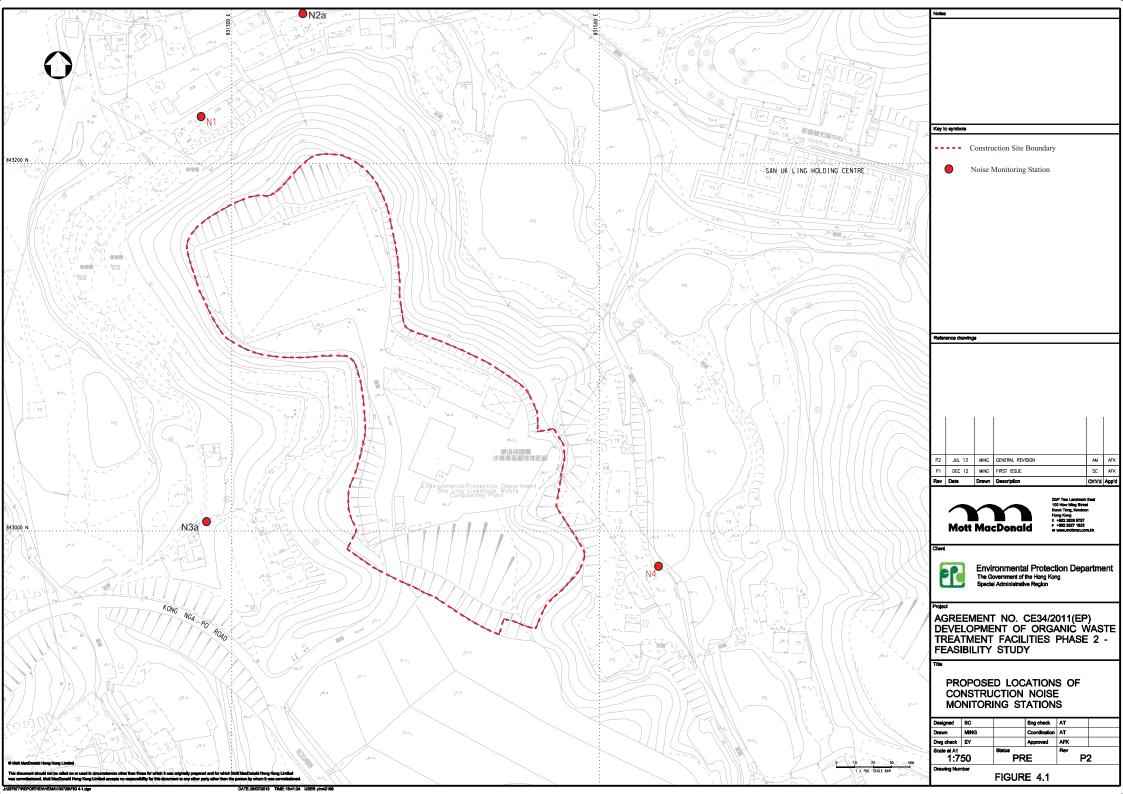
ARUP (IEC) – Ove Arup & Partners Hong Kong Ltd.

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



Appendix C

Monitoring Locations for Impact Monitoring





Appendix D

3-Month Rolling Construction Programme

		Duration	Date	Date			Float	Nov 28	Dec 29	
ract No. EP/S GN	SP/86/15 - ORGANIC RESOURCE RECOVERY CENTRE, PHASE 2									
GN MANENT WOR	RKS DESIGN									
DETAILED DES	IGN SUBMISSION									
	URAL DESIGN REPORT & DRAWING SUBMISSION									
	ON BUILDING - ARCHITECTURAL WORKS									
O2 D2225a	& CERTIFICATION Submit further information for the re-submitted ADR for Reception Building to IC (Clause 5.4.3.9, Specs Part A)	222	31-Dec-20	09-Aug-21	31-Dec-20 A	02-Nov-21 A		O2 D2225a		
02_02230a	IC Certify ADR for Reception Building (Clause 5.4.3.9, Specs Part A)	132	14-Apr-21	23-Aug-21	14-Apr-21 A	16-Nov-21 A		O2_D2223a		
02_D2235a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	2	24-Aug-21	25-Aug-21	17-Nov-21 A	02-Dec-21	24		O2 D2235a	
EMPLOYER's C	CONSENT									
O2_D2240a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	26-Aug-21	01-Sep-21	03-Dec-21	09-Dec-21	24		O2_D2240a	
02_D2245a	ER Comment on the submitted ADR for Reception Building (Clause 5.4.3.17.c, Specs Part A)	14	02-Sep-21	15-Sep-21	10-Dec-21	23-Dec-21	24		O2_D22	245a
02_02250a	Submit further information for the submitted ADR for Reception Building to ER (Clause 5.4.3.19, Specs Part A)	7	16-Sep-21	22-Sep-21	24-Dec-21	30-Dec-21	24			02_D2250a
D2_D2255a D2_D2260a	ER Comment on the re-submitted ADR for Reception Building (Clause 5.4.3.17.a, Specs Part A ER Consented ADR for Reception Building (Clause 5.4.3.17.a, Specs Part A)	14	23-Sep-21	06-Oct-21 06-Oct-21	31-Dec-21	13-Jan-22 13-Jan-22	24 24			
D2_D2200a D2 D2265a	Submit Two Complete Sets ADR for Reception Building to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	2	07-Oct-21	08-Oct-21	14-Jan-22	15-Jan-22	24			
D2_D22000	Design Registered - ADR for Reception Building	1	09-Oct-21	09-Oct-21	16-Jan-22	16-Jan-22	24			
.2 - GRANULA	ATION BUILDING - ARCHITECTURAL WORKS									
CHECKING 8	& CERTIFICATION									
D2_D2325a	Submit further information for the re-submitted ADR for Granulation Building to IC (Clause 5.4.3.9, Specs Part A)	148	11-Mar-21	05-Aug-21	11-Mar-21 A	30-Nov-21 A			02_D2325a	
02_D2330a	IC CertifyADR for Granulation Building (Clause 5.4.3.9, Specs Part A)	72	09-Jun-21	19-Aug-21	09-Jun-21 A	02-Dec-21	29		O2_D2330a	
02_D2335a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	20-Aug-21	26-Aug-21	03-Dec-21	09-Dec-21	29		O2_D2335a	
MPLOYER's C D2 D2340a	CONSENT Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	27-Aug-21	02-Sep-21	10-Dec-21	16-Dec-21	29		00 00040-	
02_02340a 02 02345a	ER Comment on the submitted ADR for Granulation Building (Clause 5.4.3.17, Specs Part A)	14	27-Aug-21 03-Sep-21	02-Sep-21 16-Sep-21	10-Dec-21 17-Dec-21	30-Dec-21	29 29		O2_D2340a	02 D2345a
02_02340a	Submit further information for the submitted ADR for Granulation Building to ER (Clause 5.4.3.19, Specs Part A)	7	17-Sep-21	23-Sep-21	31-Dec-21	06-Jan-22	29			02_02345
D2_D2355a	ER Comment on the re-submitted ADR for Granulation Building (Clause 5.4.3.17.a, Specs Part A)	14	24-Sep-21	07-Oct-21	07-Jan-22	20-Jan-22	29			
	ER Consented ADR for Granulation Building (Clause 5.4.3.17.a, Specs Part A)	0		07-Oct-21		20-Jan-22	29			
D2_D2365a	Submit Two Complete Sets ADR for Granulation Building to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	08-Oct-21	14-Oct-21	21-Jan-22	27-Jan-22	29			
02_D2370a	Design Registered - ADR for Granulation Building	7	15-Oct-21	21-Oct-21	28-Jan-22	03-Feb-22	29			
	IDGE/WALKWAY - ARCHITECTURAL WORKS									
	& CERTIFICATION	407				10.11 01.1		02 033305		
D2_D3330a D2_D3335a	IC Certify ADR for Footbridge Building (Clause 5.4.3.9, Specs Part A) Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	107	30-Apr-21 15-Aug-21	14-Aug-21 21-Aug-21	30-Apr-21 A 13-Nov-21 A	12-Nov-21 A 07-Dec-21	281	02_03330a	O2 D3335a	
MPLOYER's C	· · · · · · · · · · · · · · · · · · ·		107 mg 21	217	1011012111	0. 200 21	201		02_00000	
02_D3340a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	22-Aug-21	28-Aug-21	08-Dec-21	14-Dec-21	281		O2_D3340a	
	ER Comment on the submitted ADR for Footbridge Building (Clause 5.4.3.17.c, Specs Part A)	14	29-Aug-21	11-Sep-21	15-Dec-21	28-Dec-21	281			O2_D3345a
02_D3350a	Submit further information for the submitted ADR for Footbridge Building to ER (Clause 5.4.3.19, Specs Part A)	7	12-Sep-21	18-Sep-21	29-Dec-21	04-Jan-22	281			
02_D3355a	ER Comment on the re-submitted ADR for Footbridge Building (Clause 5.4.3.17.a, Specs Part A)	14	19-Sep-21	02-Oct-21	05-Jan-22	18-Jan-22	281			
D2_D3360a	ER Consented ADR for Footbridge Building (Clause 5.4.3.17.a, Specs Part A)	0	02 Oct 21	02-Oct-21	10. Jan 22	18-Jan-22	281 281			
02_D3365a 02_D3370a	Submit Two Complete Sets ADR for Footbridge Building to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) Design Registered - ADR for Footbridge Building	7	03-Oct-21 10-Oct-21	09-Oct-21 16-Oct-21	19-Jan-22 26-Jan-22	25-Jan-22 01-Feb-22	201			
-	DUSE - ARCHITECTURAL WORKS	1	10-04-21	10-00-21	20-001-22	01-1 00-22	201			
	& CERTIFICATION									
02_D3425a	Submit further information for the re-submitted ADR for Pump House to IC (Clause 5.4.3.9, Specs Part A)	206	14-Jan-21	07-Aug-21	14-Jan-21 A	08-Dec-21	279		O2 D3425a	
 D2_D3430a	IC Certify ADR for Pump House (Clause 5.4.3.9, Specs Part A)	14	08-Aug-21	21-Aug-21	05-Aug-21 A	18-Dec-21	279		O2_D3430a	
02_D3435a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	22-Aug-21	28-Aug-21	19-Dec-21	25-Dec-21	279		O2_[D3435a
MPLOYER's C										_
02_D3440a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	29-Aug-21	04-Sep-21	26-Dec-21	01-Jan-22	279			O2_D344
02_D3445a	ER Comment on the submitted ADR for Pump House (Clause 5.4.3.17.c, Specs Part A)	14	05-Sep-21	18-Sep-21	02-Jan-22	15-Jan-22	279 279			
02_D3450a 02_D3455a	Submit further information for the submitted ADR for Pump House to ER (Clause 5.4.3.19, Specs Part A) ER Comment on the re-submitted ADR for Pump House (Clause 5.4.3.17.a, Specs Part A)	14	19-Sep-21 26-Sep-21	25-Sep-21 09-Oct-21	16-Jan-22 23-Jan-22	22-Jan-22 05-Feb-22	279			
02_03455a 02_03460a	ER Continient of the re-submitted ADR for Pump House (Clause 5.4.3.17.a, Specs Part A)	0	20 000-21	09-0d-21 09-0d-21	20.001.57	05-Feb-22	279			
02_D3465a	Submit Two Complete Sets ADR for Pump House to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	10-Oct-21	16-Oct-21	06-Feb-22	12-Feb-22	279			
	Design Registered - ADR for Pump House	7	17-Oct-21	23-Oct-21	13-Feb-22	19-Feb-22	279			
.7 - ANCILLIA	RY FACILITIES - ARCHITECTURAL WORKS									
	& CERTIFICATION									
02_D3925a	Submit further information for the re-submitted ADR for Andiliary Facilities to IC (Clause 5.4.3.9, Specs Part A)	267	14-Nov-20	07-Aug-21	14-Nov-20 A	08-Dec-21	107		O2_D3925a	
02_D3930a	IC Certify ADR for Anciliary Facilities (Clause 54.3.9, Specs Part A)	14	08-Aug-21	21-Aug-21	13-Nov-21 A	22-Dec-21	107		O2_D393	+
D2_D3935a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	22-Aug-21	28-Aug-21	23-Dec-21	29-Dec-21	107			02_D3935a
MPLOYER's C D2_D3940a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	29-Aug-21	04-Sep-21	30-Dec-21	05-Jan-22	107			02_
02_03940a 02_03945a	ER Comment on the submitted ADR for Anciliary Facilities (Clause 5.4.3.17.c, Specs Part A)	14	05-Sep-21	18-Sep-21	06-Jan-22	19-Jan-22	107		-	- 02
D2_D3950a	Submit further information for the submitted ADR for Anciliary Facilities to ER (Clause 5.4.3.19, Specs Part A)	7	19-Sep-21	25-Sep-21	20-Jan-22	26-Jan-22	107			
D2_D3955a	ER Comment on the re-submitted ADR for Anciliary Facilities (Clause 5.4.3.17.a, Specs Part A)	14	26-Sep-21	09-Oct-21	27-Jan-22	09-Feb-22	107			
	ER Consented ADR for Anciliary Facilities (Clause 54.3.17.a, Specs Part A)	0		09-Oct-21		09-Feb-22	107			
	Submit Two Complete Sets ADR for Ancilliary Facilities to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	10-Oct-21	16-Oct-21	10-Feb-22	16-Feb-22	107			
										1
O2_D3965a O2_D3970a	Design Registered - ADR for Anciliary Facilities NG DESIGN REPORT (INCL. IRRIGATION DESIGN) & DRAWING SUBMISSION	7	17-Oct-21	23-Oct-21	17-Feb-22	23-Feb-22	107			



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02_D4235a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	148	13-Mar-21	07-Aug-21	13-Mar-21 A	07-Dec-21	100		O2_D4235a	
EMPLOYER's CC		7	00 Aug 21	14 Aug 01	00 Dec 21	14 Dec 21	100			
O2_D4240a O2_D4245a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A) ER Comment on the submitted Landscaping (Clause 5.4.3.17.c, Specs Part A)	14	08-Aug-21 15-Aug-21	14-Aug-21	08-Dec-21 15-Dec-21	14-Dec-21 28-Dec-21	100 100		O2_D4240a	02 D4245a
02_D4245a 02 D4250a	Submit further information for the submitted Landscaping to ER (Clause 5.4.3.19, Specs Part A)	7	29-Aug-21	28-Aug-21 04-Sep-21	29-Dec-21	04-Jan-22	100		0	02 D4245a
O2_D4255a	ER Comment on the re-submitted Landscaping (Clause 5.4.3.17.a, Specs Part A)	14	05-Sep-21	18-Sep-21	05-Jan-22	18-Jan-22	100			
O2_D4260a	ER Consented Landscaping (Clause 5.4.3.17.a, Spece Part A)	0	00 000 21	18-Sep-21	00 001 22	18-Jan-22	100			
O2_D4265a	Submit Two Complete Sets Landscaping to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	19-Sep-21	25-Sep-21	19-Jan-22	25-Jan-22	100			
O2 D4270a	Design Registered - Landscaping	7	26-Sep-21	02-Oct-21	26-Jan-22	01-Feb-22	100			
C3 - CIVIL AND ST	TRUCTURE DESIGN REPORT, CALCULATIONS, SPECIFICATIONS & DRAWING SUBMISSION									
C3.2 - RECEPTIC	DN BUILDING - SUPERSTRUCTURE									
C3.2(ii) - RECEP	PTION BUILDING - SUPERSTRUCTURE (Ground Floor including Staircase R-ST-1 to R-ST-4)									
EMPLOYER's (CONSENT									
O2_DR1240	ER Consented Reception Building - Superstructure	0		03-Sep-21		22-Oct-21 A		21 A		
O2_DR1250	Submit Two Complete Sets Reception Bldg - Superstructure to IC, ER for Register Design	1	03-Sep-21	03-Sep-21	23-Oct-21 A	28-Oct-21 A		02_DR1250		
O2_DR1260	Design Registered - Reception Building - Superstructure (G/F ind R-ST-1 to R-ST-4)	1	04-Sep-21	04-Sep-21	28-Oct-21 A	28-Oct-21 A		02_DR1260	-	
C3.2(iv) - RECEP	PTION BUILDING - SUPERSTRUCTURE (1/F to Top Roof Floor)									
IC CHECKING	& CERTIFICATION									
O2_DR3140	Submit further information for the re-submitted Reception Building - Superstructure to IC	123	07-May-21	06-Sep-21	07-May-21 A	01-Dec-21	61		O2_DR3140	
O2_DR3150	IC Certify Reception Building - Superstructure	90	23-Jun-21	20-Sep-21	23-Jun-21 A	02-Dec-21	61		O2_DR3150	
O2_DR3160	Obtain Design Check Certificate & Method of Construction Check Certificate	1	21-Sep-21	21-Sep-21	03-Dec-21	03-Dec-21	61		02_DR3160	
EMPLOYER's C									1.	
O2_DR3200	Submit Design Check Certificate & Method of Construction Check Certificate to ER	1	22-Sep-21	22-Sep-21	04-Dec-21	04-Dec-21	61		02_DR3200	
O2_DR3210	ER Comment on the submitted Reception Building - Superstructure	14	23-Sep-21	06-Oct-21	05-Dec-21	18-Dec-21	61		O2_DR3210	
O2_DR3220	Submit further information for the submitted Reception Building - Superstructure	7	07-Oct-21	13-Oct-21	19-Dec-21	25-Dec-21	61		02_0	1
O2_DR3230	ER Comment on the re-submitted Reception Building - Superstructure	14	14-Oct-21	27-Oct-21	26-Dec-21	08-Jan-22	61			
O2_DR3240 O2_DR3250	ER Consented Reception Building - Superstructure Submit Two Complete Sets Reception Bldg - Superstructure to IC, ER for Register Design	0	27-Oct-21	27-Oct-21 27-Oct-21	08-Jan-22	08-Jan-22 08-Jan-22	61 61			♦ (□ (
02_DR3250 02_DR3260	Design Registered - Reception Building - Superstructure (1/F to Top Toof Floor)	1	27-0d-21 28-0d-21	27-0d-21 28-0d-21	09-Jan-22	09-Jan-22	61			
-	ATION BUILDING - SUPERSTRUCTURE		20-00-21	20-04-21	03-541-22	03-Jai 1-22	01			·
	ULATION BUILDING - SUPERSTRUCTURE (G/F Beam & Slab to M/F Soffit)									
EMPLOYER'S	· ,									
O2 DG1200	Submit Design Check Certificate & Method of Construction Check Certificate to ER	1	03-Aug-21	03-Aug-21	05-Oct-21 A	05-Oct-21 A				
O2_DG1200	ER Comment on the submitted Granulation Building - Superstructure	5	04-Aug-21	17-Aug-21	06-Oct-21 A	08-Oct-21 A			1	
O2 DG1220	ER Consented Granulation Building - Superstructure	0	047 kg 21	17-Aug-21	00 00 2177	08-Oct-21 A				
O2 DG1230	Submit Two Complete Sets Granulation Bidg - Superstructure to IC, ER for Register Design	1	18-Aug-21	18-Aug-21	09-Oct-21 A	15-Oct-21 A				
O2 DG1240	Design Registered - Granulation Building - Superstructure (G/F Beam & Slab to M/F Soffit)	1	18-Aug-21	18-Aug-21	15-Oct-21 A	15-Oct-21 A				
-	IULATION BUILDING - SUPERSTRUCTURE (M/F Beam & Slab to Upper Roof Level)									
IC CHECKING	& CERTIFICATION									
O2_DG2140	Submit further information for the re-submitted Granulation Bldg - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	105	29-Apr-21	11-Aug-21	29-Apr-21 A	08-Dec-21	53		O2 DG2140	
O2_DG2180	IC Certify Granulation Building - Superstructure (Clause 5.4.3.9, Specs Part A)	114	01-May-21	22-Aug-21	01-May-21 A	20-Dec-21	53		O2_DG2180	D
O2_DG2190	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	1	22-Aug-21	22-Aug-21	20-Dec-21	20-Dec-21	53		O2_DG2190	D
EMPLOYER's C	CONSENT									
O2_DG2200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	2	23-Aug-21	24-Aug-21	21-Dec-21	22-Dec-21	53		□ 02_DG22	200
O2_DG2210	ER Comment on the submitted Granulation Building - Superstructure (Clause 5.4.3.17.c, Specs Part A)	14	25-Aug-21	07-Sep-21	23-Dec-21	05-Jan-22	53			02_1
O2_DG2220	ER Consented Granulation Building - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0		07-Sep-21		05-Jan-22	53			◆ 05-J
O2_DG2230	Submit Two Complete Sets Granulation Bldg - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	08-Sep-21	08-Sep-21	06-Jan-22	06-Jan-22	53			02
O2_DG2240	Design Registered - Granulation Building - Superstructure (M/F Beam & Slab to Upper Roof Level)	1	09-Sep-21	09-Sep-21	07-Jan-22	07-Jan-22	53			0
EMPLOYER's C										
O2_D3070	Design Registered - Footbridge - Footing	1	31-Aug-21	31-Aug-21	30-Sep-21 A	30-Sep-21 A			7	
	DGE - SUPERSTRUCTURE									
	RIDGE - SUPERSTRUCTURE (for RC Pier)									
	& CERTIFICATION	007	00 4 00	00 4	00 4	06 D 01				
O2_D3116a	Submit further information for the re-submitted Footbridge - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	367	08-Aug-20	09-Aug-21	08-Aug-20 A	06-Dec-21	30		O2_D3116a	
O2_D3120	IC Certify Footbridge - Superstructure (Clause 5.4.3.9, Specs Part A)	7	10-Aug-21	16-Aug-21	21-Jul-21 A	13-Dec-21	30		O2_D3120	
02_D3130	Obtain Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	1	17-Aug-21	17-Aug-21	14-Dec-21	14-Dec-21	30		O2_D3130	
EMPLOYER'S C		1	18 Auro 21	18 Aug 21	15-Dec-21	15-Dec 21	30		00 00140	
O2_D3140 O2_D3142a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A) ER Comment on the submitted Footbridge - Superstructure (Clause 5.4.3.17.c, Specs Part A)	1	18-Aug-21 19-Aug-21	18-Aug-21 01-Sep-21	15-Dec-21 16-Dec-21	15-Dec-21 29-Dec-21	30		© O2_D3140	02 D3142a
O2_D3142a O2_D3144a	Submit further information for the submitted Footbridge - Superstructure (Clause 5.4.3.17.6; Specs Part A)	5	02-Sep-21	01-Sep-21 06-Sep-21	30-Dec-21	29-Dec-21 03-Jan-22	30			02_D3142a
O2_D3144a O2_D3146a	ER Comment on the re-submitted Footbridge - Superstructure (Clause 5.4.3.17.a, Specs Part A)	7	02-Sep-21 07-Sep-21	13-Sep-21	04-Jan-22	10-Jan-22	30		1	02_03
O2_D3150	ER Consented Footbridge - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0	2. SSP 21	13-Sep-21	- · · · · · · · · · · · · · · · · · · ·	10-Jan-22	30			
O2_D3160	Submit Two Complete Sets Footbridge - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	14-Sep-21	14-Sep-21	11-Jan-22	11-Jan-22	30			
O2_D3170	Design Registered - Footbridge - Superstructure (for RC Pier)	1	14-Sep-21	14-Sep-21	11-Jan-22	11-Jan-22	30			
	RIDGE - SUPERSTRUCTURE (for Steel Bridge)		•	· ·						
	& CERTIFICATION									
O2_DS1130	Submit further information for the re-submitted Footbridge - Superstructure to IC (for Steel Bridge)	374	08-Aug-20	16-Aug-21	08-Aug-20 A	08-Dec-21	50		O2_DS1130	
 O2_DS1140	IC Certify Footbridge - Superstructure (for Steel Bridge)	14	17-Aug-21	30-Aug-21	21-Jul-21 A	22-Dec-21	50		02_DS11	40
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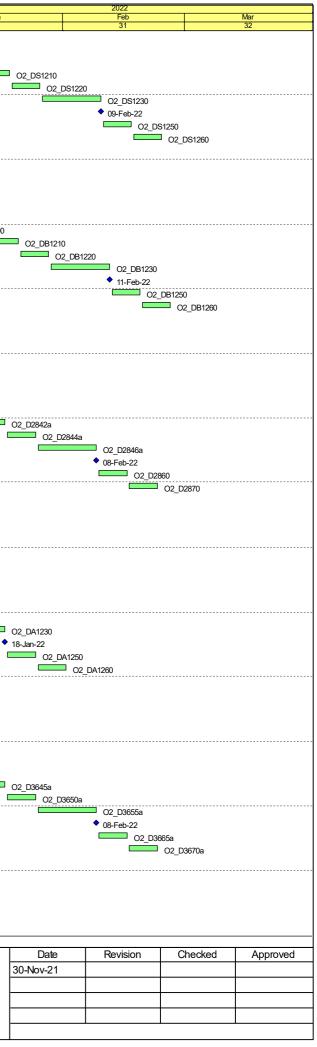
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omment on the re-submitted Footbridge - Superstructure (for Bearing) onsented Footbridge - Superstructure (for Bearing) it Two Complete Sets Footbridge - Superstructure to IC, ER for Register Design (for Bearing) in Registered - Footbridge - Superstructure (for Bearing)	14		04-Oct-21	08-Jan-22	21-Jan-22	89			
onsented Footbridge - Superstructure (for Bearing) it Two Complete Sets Footbridge - Superstructure to IC, ER for Register Design (for Bearing) n Registered - Footbridge - Superstructure (for Bearing)		05-Oct-21	11-Oct-21	22-Jan-22	28-Jan-22	89			
it Two Complete Sets Footbridge - Superstructure to IC, ER for Register Design (for Bearing) n Registered - Footbridge - Superstructure (for Bearing)	0	12-Oct-21	25-Oct-21	29-Jan-22	11-Feb-22	89	,		
n Registered - Footbridge - Superstructure (for Bearing)			25-Oct-21	(a =)	11-Feb-22	89		l	
	7	26-Oct-21	01-Nov-21	12-Feb-22	18-Feb-22	89			
NIPERSTRUCTURE	7	02-Nov-21	08-Nov-21	19-Feb-22	25-Feb-22	89	, <u> </u>		
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mment on the re-submitted Pump House - Superstructure (Clause 5.4.3.9, Specs Part A)	14	10-Aug-21	23-Aug-21	28-Oct-21 A	12-Nov-21 A		02_028143	1	
it further information for the re-submitted Pump House - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	24-Aug-21	30-Aug-21	13-Nov-21 A	07-Dec-21	29		O2_D2816a	
rtify Pump House - Superstructure (Clause 5.4.3.9, Specs Part A)	14	31-Aug-21	13-Sep-21	08-Dec-21	21-Dec-21	29	,	O2_D2820	.0
n Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	7	14-Sep-21	20-Sep-21	22-Dec-21	28-Dec-21	29	,		O2_D2830
NT			·				,		_
it Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	21-Sep-21	27-Sep-21	29-Dec-21	04-Jan-22	29	1		02 D
omment on the submitted Pump House - Superstructure (Clause 5.4.3.17.c, Specs Part A)	14	28-Sep-21	11-Oct-21	05-Jan-22	18-Jan-22	29			
it further information for the submitted Pump House - Superstructure to ER (Clause 5.4.3.19, Specs Part A)	7	12-Oct-21	18-Oct-21	19-Jan-22	25-Jan-22	29			
omment on the re-submitted Pump House - Superstructure (Clause 5.4.3.17.a, Specs Part A)	14	19-Oct-21	01-Nov-21	26-Jan-22	08-Feb-22	29			
onsented Pump House - Superstructure (Clause 5.4.3.17.a, Specs Part A)	0	10 04 21	01-Nov-21	20 001 22	08-Feb-22	29			
it Two Complete Sets Pump House - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	02-Nov-21	08-Nov-21	09-Feb-22	15-Feb-22	29	▼		
n Registered - Pump House - Superstructure	7	02-Nov-21	15-Nov-21	16-Feb-22	22-Feb-22	29			
	1	03-1404-21	13-1107-21	10-1 eb-22	22-1 60-22	25			
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SUPERSTRUCTURE & ARCHITECTURAL (Roof)									
TIFICATION	000	40 Dec 00	07 Aur 04	40 D 00 A	04 Nov 04 A				
it further information for the re-submitted AD Tanks - Superstructure (Roof)	232	19-Dec-20	07-Aug-21	19-Dec-20 A	04-Nov-21 A		O2_DA1130		
rtify AD Tanks - Superstructure (Roof)	235	30-Dec-20	21-Aug-21	30-Dec-20 A	09-Nov-21 A	F	02_DA1140		
n Design Check Certificate & Method of Construction Check Certificate AD Tanks - Superstructure (Roof)	7	22-Aug-21	28-Aug-21	10-Nov-21 A	07-Dec-21	80	4	O2_DA1150	
INT							1		
it Design Check Certificate & Method of Construction Check Certificate to ER AD Tanks - Superstructure (Roof)	7	29-Aug-21	04-Sep-21	08-Dec-21	14-Dec-21	80	1	O2_DA1200	
omment on the submitted AD Tanks - Superstructure (Roof)	14	05-Sep-21	18-Sep-21	15-Dec-21	28-Dec-21	80	ا بــــــــــــــــــــــــــــــــــــ		O2_DA1210
it further information for the submitted Footbridge - Superstructure to ER (for Bearing)	7	19-Sep-21	25-Sep-21	29-Dec-21	04-Jan-22	80	1		02_D
omment on the re-submitted Footbridge - Superstructure (for Bearing)	14	26-Sep-21	09-Oct-21	05-Jan-22	18-Jan-22	80	,		
onsented AD Tanks - Superstructure (Roof)	0		09-Oct-21		18-Jan-22	80	,		
it Two Complete Sets AD Tanks - Superstructure to IC, ER for Register Design (Roof)	7	10-Oct-21	16-Oct-21	19-Jan-22	25-Jan-22	80	,		
n Registered - AD Tanks - Superstructure (Roof)	7	17-Oct-21	23-Oct-21	26-Jan-22	01-Feb-22	80	,		
WS - SUPERSTRUCTURE									
IFICATION									
mment on the re-submitted Tanks Walkways - Superstructure (Clause 5.4.3.9, Specs Part A)	52	18-Jun-21	08-Aug-21	18-Jun-21 A	29-Nov-21 A			O2 D3620a	
it further information for the re-submitted Tanks Walkways - Superstructure to IC (Clause 5.4.3.9, Specs Part A)	7	09-Aug-21	15-Aug-21	30-Nov-21 A	07-Dec-21	278		02_D3625a	
			-			278	,		0.2
rtify Tanks Walkways - Superstructure (Clause 5.4.3.9, Specs Part A)	14	16-Aug-21	29-Aug-21	08-Dec-21	21-Dec-21		/	O2_D3630	+
n Design Check Certificate & Method of Construction Check Certificate (5.4.3.11 & 5.4.3.12, Specs Part A)	1	30-Aug-21	05-Sep-21	22-Dec-21	28-Dec-21	278	,		O2_D3635a
NT	_						,		<u> </u>
it Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	06-Sep-21	12-Sep-21	29-Dec-21	04-Jan-22	278			02_0
	14	13-Sep-21	26-Sep-21	05-Jan-22	18-Jan-22	278	,		
omment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A)	7	27-Sep-21	03-Oct-21	19-Jan-22	25-Jan-22	278	·	_	
omment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A) it further information for the submitted Tanks Walkways - Superstructure to ER (Clause 5.4.3.19, Specs Part A)	14	04-Oct-21	17-Oct-21	26-Jan-22	08-Feb-22	278	,		
omment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A)	0		17-Oct-21		08-Feb-22	278	,		
omment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A) it further information for the submitted Tanks Walkways - Superstructure to ER (Clause 5.4.3.19, Specs Part A) omment on the re-submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) onsented Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A)		18-Oct-21	24-Oct-21	09-Feb-22	15-Feb-22	278	,		
omment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A) it further information for the submitted Tanks Walkways - Superstructure to ER (Clause 5.4.3.19, Specs Part A) omment on the re-submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A)	7	25-Oct-21	31-Oct-21	16-Feb-22	22-Feb-22	278			
omment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A) it further information for the submitted Tanks Walkways - Superstructure to ER (Clause 5.4.3.19, Specs Part A) omment on the re-submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) onsented Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A)							,		
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omment on the submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.c, Specs Part A) it further information for the submitted Tanks Walkways - Superstructure to ER (Clause 5.4.3.19, Specs Part A) omment on the re-submitted Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) onsented Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) it Two Complete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) in Registered - Tanks Walkways - Superstructure RKS DESIGN TFICATION rtify Drainage Works Design (Clause 5.4.3.9, Specs Part A) in Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	09-Aug-21 23-Aug-21	22-Aug-21 23-Aug-21	17-Aug-21 A 17-Nov-21 A	16-Nov-21 A 01-Dec-21	30		□ O2_D3835a	
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omment o nit further i		Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7	Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7 18-Oct-21 red - Tanks Walkways - Superstructure 7 25-Oct-21	Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 17-Oct-21 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7 18-Oct-21 24-Oct-21 red - Tanks Walkways - Superstructure 7 25-Oct-21 31-Oct-21	Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 17-Od-21 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7 18-Od-21 24-Od-21 09-Feb-22 red - Tanks Walkways - Superstructure 7 25-Od-21 31-Od-21 16-Feb-22	Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 17-Od-21 08-Feb-22 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7 18-Od-21 24-Od-21 09-Feb-22 15-Feb-22 red - Tanks Walkways - Superstructure 7 25-Od-21 31-Od-21 16-Feb-22 22-Feb-22	Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 17-Od-21 08-Feb-22 278 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7 18-Od-21 24-Od-21 09-Feb-22 15-Feb-22 278 red - Tanks Walkways - Superstructure 7 25-Od-21 31-Od-21 16-Feb-22 22-Feb-22 278 SIGN 51 <t< td=""><td>Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 17-Od-21 08-Feb-22 278 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7 18-Od-21 24-Od-21 09-Feb-22 15-Feb-22 278 red - Tanks Walkways - Superstructure 7 25-Od-21 31-Od-21 16-Feb-22 22-Feb-22 278 SIGN Sign - Superstructure 54-56-52 278 278</td><td>Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A)017-Od-2108-Feb-22278mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)718-Od-2124-Od-2109-Feb-2215-Feb-22278red - Tanks Walkways - Superstructure725-Od-2131-Od-2116-Feb-2222-Feb-22278SIGNDN</td></t<>	Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A) 0 17-Od-21 08-Feb-22 278 mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) 7 18-Od-21 24-Od-21 09-Feb-22 15-Feb-22 278 red - Tanks Walkways - Superstructure 7 25-Od-21 31-Od-21 16-Feb-22 22-Feb-22 278 SIGN Sign - Superstructure 54-56-52 278 278	Tanks Walkways - Superstructure (Clause 5.4.3.17.a, Specs Part A)017-Od-2108-Feb-22278mplete Sets Tanks Walkways - Superstructure to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)718-Od-2124-Od-2109-Feb-2215-Feb-22278red - Tanks Walkways - Superstructure725-Od-2131-Od-2116-Feb-2222-Feb-22278SIGNDN



Layout: ORRC2_WP_2021_3M.11 R2c Layout: ORRC2_WP_2021_3M Task filter: TASK filters: 3MK, 3MN, 3MRP. Date Printed: 22-Dec-21

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



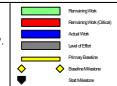
	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float	Nov 28	Dec	
O2_D3845a	ER Comment on the submitted Drainage Works Design (Clause 5.4.3.17.c, Specs Part A)	7	25-Aug-21	31-Aug-21	03-Dec-21	09-Dec-21	30	20	02 D3845a	
O2_D3860a	ER Consented Drainage Works Design (Clause 5.4.3.17.a, Specs Part A)	0		31-Aug-21		09-Dec-21	30		◆ 09-Dec-21	1
O2_D3865a	Submit Two Complete Sets Drainage Works Design to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	31-Aug-21	31-Aug-21	09-Dec-21	09-Dec-21	30	1	02_D3865a	1
 O2_D3870a	Design Registered - Drainage Works Design	1	31-Aug-21	31-Aug-21	09-Dec-21	09-Dec-21	30	1	02_D3870a	1
C3.16 - SEWEF	RAGE WORKS DESIGN									
IC CHECKING	G & CERTIFICATION									
O2_D3735a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	24	15-Jul-21	07-Aug-21	15-Jul-21 A	26-Nov-21 A			<mark>92</mark> _D3735a	
EMPLOYER's	S CONSENT									
O2_D3740a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	1	08-Aug-21	08-Aug-21	26-Nov-21 A	26-Nov-21 A			2_D3740a	
O2_D3745a	ER Comment on the submitted Sewerage Works Design (Clause 5.4.3.17.c, Specs Part A)	14	09-Aug-21	22-Aug-21	27-Nov-21 A	14-Dec-21	21		O2_D3745a	
O2_D3760a	ER Consented Sewerage Works Design (Clause 5.4.3.17.a, Specs Part A)	0		22-Aug-21		14-Dec-21	21		◆ 14-Dec-21	
O2_D3765a	Submit Two Complete Sets Sewerage Works Design to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	2	23-Aug-21	24-Aug-21	15-Dec-21	16-Dec-21	21	1	O2_D3765a	1
O2_D3770a	Design Registered - Sewerage Works Design	2	25-Aug-21	26-Aug-21	17-Dec-21	18-Dec-21	21	1	□	
C3.17 - WATER	RWORKS DESIGN								_	
IC CHECKING	G & CERTIFICATION									
O2 D4030a	IC Certify Waterworks Design (Clause 5.4.3.9, Specs Part A)	52	05-Jun-21	26-Jul-21	05-Jun-21 A	02-Nov-21 A		O2 D4030a		÷
 O2 D4035a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	12	27-Jul-21	07-Aug-21	27-Jul-21 A	06-Dec-21	9		O2 D4035a	
EMPLOYER's				0						
O2 D4040a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	1	08-Aug-21	08-Aug-21	07-Dec-21	07-Dec-21	9		0 O2 D4040a	
02_D4046a	ER Comment on the submitted Waterworks Design (Clause 5.4.3. 17. c, Specs Part A)	7	09-Aug-21	15-Aug-21	08-Dec-21	14-Dec-21	9	1	02_D4040a	
02_04040a 02 D4050a	Submit further information for the submitted Waterworks Design to ER (Clause 54.3.19, Specs Part A)	7	16-Aug-21	22-Aug-21	15-Dec-21	21-Dec-21	9		02_D4045a	;
O2_D4050a O2 D4055a	ER Comment on the re-submitted Waterworks Design (Clause 5.4.3.17.a, Specs Part A)	7	23-Aug-21	22-Aug-21 29-Aug-21	22-Dec-21	21-Dec-21 28-Dec-21	0		_	a 12 D4055a
02_D4055a	ER Consented Waterworks Design (Clause 5.4.3.17.a, Specs Part A) ER Consented Waterworks Design (Clause 5.4.3.17.a, Specs Part A)	0	20-mug=21	29-Aug-21 29-Aug-21	22-000-21	28-Dec-21	9			2_D4055 8-Dec-21
O2_D4060a	Submit Two Complete Sets Waterworks Design to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	30-Aug-21	29-Aug-21 30-Aug-21	29-Dec-21	20-Dec-21 29-Dec-21	9	-		6-Dec-21
02_D4005a 02 D4070a	Design Registered - Waterworks Design	1	31-Aug-21	30-Aug-21 31-Aug-21	30-Dec-21	29-Dec-21 30-Dec-21	9			02_D406
-	N FOR ROADWORKSAND STREET FURNITURES		51-mug-21	01-Mug-21	00-00-21	00-00-21	9			U2_D40
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	3 & CERTIFICATION	000	10 Mar 00	07 Aur 04	10 May 00 A	22 May 04 A				
O2_D4125a	Submit further information for the re-submitted Roadworks and Street Furnitures to IC (Clause 5.4.3.9, Specs Part A)	263	18-Nov-20	07-Aug-21	18-Nov-20 A	23-Nov-21 A		02_6		
O2_D4130a	IC Certify Roadworks and Street Furnitures (Clause 5.4.3.9, Specs Part A)	107	30-Apr-21	14-Aug-21	30-Apr-21 A	30-Nov-21 A	040		02_D4130a	
O2_D4135a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	15-Aug-21	21-Aug-21	01-Dec-21	07-Dec-21	212		02_D4135a	
EMPLOYER's			00.1	00 1 51	00.5	44.5	e 1-			
O2_D4140a	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	22-Aug-21	28-Aug-21	08-Dec-21	14-Dec-21	212	-	O2_D4140a	-
O2_D4145a	ER Comment on the submitted Roadworks and Street Furnitures (Clause 5.4.3.17.c, Specs Part A)	14	29-Aug-21	11-Sep-21	15-Dec-21	28-Dec-21	212			
O2_D4150a	Submit further information for the submitted Roadworks and Street Furnitures to ER (Clause 5.4.3.19, Specs Part A)	7	12-Sep-21	18-Sep-21	29-Dec-21	04-Jan-22	212			
O2_D4155a	ER Comment on the re-submitted Roadworks and Street Furnitures (Clause 5.4.3.17.a, Specs Part A)	14	19-Sep-21	02-Oct-21	05-Jan-22	18-Jan-22	212			ļ
O2_D4160a	ER Consented Roadworks and Street Furnitures (Clause 5.4.3.17.a, Specs Part A)	0		02-Oct-21		18-Jan-22	212			
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	03-Oct-21	09-Oct-21	19-Jan-22	25-Jan-22	212			
O2_D4170a	Design Registered - Roadworks and Street Furnitures	7	10-Oct-21	16-Oct-21	26-Jan-22	01-Feb-22	212			1
O2_D4825a	Submit further information for the re-submitted WBCC & WB to IC (Clause 5.4.3.9, Specs Part A)	7	15-Aug-21	21-Aug-21	13-Aug-21 A	07-Dec-21	14	-	O2_D4825a	
O2_D4830a	IC Certify Weighbridge Control Center & Weighbridge (Clause 5.4.3.9, Specs Part A)	14	22-Aug-21	04-Sep-21	08-Dec-21	21-Dec-21	14		O2_D4830a	
02_D4835a	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	/	05-Sep-21	11-Sep-21	22-Dec-21	28-Dec-21	14			2_D4835a
EMPLOYER'			(0.0.0)						. <mark>.</mark>	
O2_D4840a					29-Dec-21	31-Dec-21	14			02_D48
	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	3	12-Sep-21	14-Sep-21						
O2_D4845a	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3. 17. c, Specs Part A)	3	15-Sep-21	28-Sep-21	01-Jan-22	14-Jan-22	14			
O2_D4850a	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 54.3. 17. c, Specs Part A) Submit further information for the submitted WBCC & WB to ER (Clause 5.4.3. 19, Specs Part A)	14 7	15-Sep-21 29-Sep-21	28-Sep-21 05-Oct-21	01-Jan-22 15-Jan-22	21-Jan-22	14 14			
O2_D4850a O2_D4855a	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3. 17. c, Specs Part A) Submit further information for the submitted WBCC & WB to ER (Clause 5.4.3. 19, Specs Part A) ER Comment on the re-submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3. 17. a, Specs Part A)	14 7 14	15-Sep-21	28-Sep-21 05-Oct-21 19-Oct-21	01-Jan-22	21-Jan-22 04-Feb-22	14 14 14			
O2_D4850a O2_D4855a O2_D4860a	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.c, Specs Part A) Submit further information for the submitted WBCC & WB to ER (Clause 5.4.3.19, Specs Part A) ER Comment on the re-submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) ER Consented Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A)	14 7 14 0	15-Sep-21 29-Sep-21 06-Oct-21	28-Sep-21 05-Oct-21 19-Oct-21 19-Oct-21	01-Jan-22 15-Jan-22 22-Jan-22	21-Jan-22 04-Feb-22 04-Feb-22	14 14 14 14	-		
O2_D4850a O2_D4855a O2_D4860a O2_D4865a	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.c, Specs Part A) Submit further information for the submitted WBCC & WB to ER (Clause 5.4.3.19, Specs Part A) ER Comment on the re-submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) ER Consented Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) Submit Two Complete Sets WBCC & WB to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	14 7 14	15-Sep-21 29-Sep-21 06-Oct-21 20-Oct-21	28-Sep-21 05-Od-21 19-Od-21 19-Od-21 20-Od-21	01-Jan-22 15-Jan-22 22-Jan-22 05-Feb-22	21-Jan-22 04-Feb-22 04-Feb-22 05-Feb-22	14 14 14 14 14	-		
O2_D4850a O2_D4855a O2_D4860a O2_D4865a O2_D4865a O2_D4870a	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.c, Specs Part A) Submit further information for the submitted WBCC & WB to ER (Clause 5.4.3.19, Specs Part A) ER Comment on the re-submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) ER Consented Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) ER Consented Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) Submit Two Complete Sets WBCC & WB to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) Design Registered - Weighbridge Control Center & Weighbridge	14 7 14 0	15-Sep-21 29-Sep-21 06-Oct-21	28-Sep-21 05-Oct-21 19-Oct-21 19-Oct-21	01-Jan-22 15-Jan-22 22-Jan-22	21-Jan-22 04-Feb-22 04-Feb-22	14 14 14 14 14 14			
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O2_D4850a O2_D4855a O2_D4860a O2_D4865a O2_D4865a O2_D4870a C3.19d - BOU	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.c, Specs Part A) Submit further information for the submitted WBCC & WB to ER (Clause 5.4.3.19, Specs Part A) ER Comment on the re-submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) ER Consented Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) ER Consented Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) Submit Two Complete Sets WBCC & WB to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) Design Registered - Weighbridge Control Center & Weighbridge JINDARY FENCE	14 7 14 0	15-Sep-21 29-Sep-21 06-Oct-21 20-Oct-21	28-Sep-21 05-Od-21 19-Od-21 19-Od-21 20-Od-21	01-Jan-22 15-Jan-22 22-Jan-22 05-Feb-22	21-Jan-22 04-Feb-22 04-Feb-22 05-Feb-22	14 14 14 14 14 14	♦ 11-Nov-21 A	•	
O2_D4850a O2_D4855a O2_D4860a O2_D4860a O2_D4860a C3.19d - BOU SUBMISSION O2_D5000a	ER Comment on the submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.c, Specs Part A) Submit further information for the submitted WBCC & WB to ER (Clause 5.4.3.19, Specs Part A) ER Comment on the re-submitted Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) ER Consented Weighbridge Control Center & Weighbridge (Clause 5.4.3.17.a, Specs Part A) Submit Two Complete Sets WBCC & WB to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A) Design Registered - Weighbridge Control Center & Weighbridge JINDARY FENCE	14 7 14 0 1 1	15-Sep-21 29-Sep-21 06-Oct-21 20-Oct-21	28-Sep-21 05-Oct-21 19-Oct-21 19-Oct-21 20-Oct-21 21-Oct-21	01-Jan-22 15-Jan-22 22-Jan-22 05-Feb-22	21-Jan-22 04-Feb-22 04-Feb-22 05-Feb-22 06-Feb-22	14 14 14 14 14 14	♦ 11-Nov-21 A	-	
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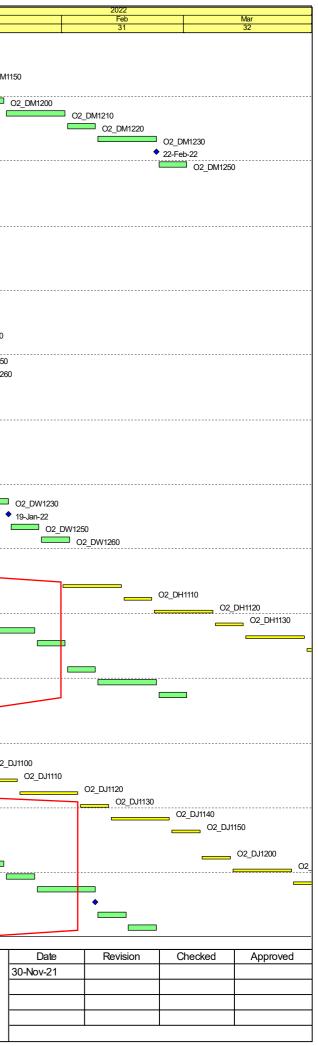
	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float	2 Nov	2021 Dec	Jan
								28	29	30
11120 11130	IC Comment on the re-submitted Master Meter Room (Clause 5.4.3.9, Specs Part A)	14	17-Aug-21	30-Aug-21	01-Dec-21	14-Dec-21	132		O2_DM1120	
	Submit further information for the re-submitted Master Meter Room to IC (Clause 5.4.3.9, Specs Part A)	7	31-Aug-21	06-Sep-21	15-Dec-21	21-Dec-21	132	1	O2_DM113	
1140	IC Certify Master Meter Room (Clause 5.4.3.9, Specs Part A)	14	07-Sep-21	20-Sep-21	22-Dec-21	04-Jan-22	132	1		O2_DM1140
/11150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A) CONSENT	7	21-Sep-21	27-Sep-21	05-Jan-22	11-Jan-22	132	1		
M1200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	28-Sep-21	04-Oct-21	12-Jan-22	18-Jan-22	132	ł		
M1200	ER Comment on the submitted Master Meter Room (Clause 5.4.3.17.c, Specs Part A)	14	05-Oct-21	18-Oct-21	12-Jan-22	01-Feb-22	132	1		0
DM1220	Submit further information for the submitted Master Meter Room to ER (Clause 5.4.3.19, Specs Part A)	7	19-Oct-21	25-Oct-21	02-Feb-22	08-Feb-22	132	1		
_DM1230	ER Comment on the re-submitted Master Meter Room (Clause 5.4.3.17.a, Specs Part A)	14	26-Oct-21	08-Nov-21	09-Feb-22	22-Feb-22	132	1		
2 DM1240	ER Consented Master Meter Room (Clause 5.4.3.17.a, Specs Part A)	0	20 04 21	08-Nov-21	0010022	22-Feb-22	132			
2 DM1250	Submit Two Complete Sets Master Meter Room to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	09-Nov-21	15-Nov-21	23-Feb-22	01-Mar-22	132	◆		
-	NG FOR BIO GAS PRECONDITION UNIT									
JBMISSION										
02 DP1000	Footing for Biogas Precondition Unit (Clause 5.4.3.9, Specs Part A)	0		28-Aug-21		30-Sep-21 A			_	
-	& CERTIFICATION			3				1		
02 DP1100	IC Comment on the submitted Footing for Biogas Precondition Unit (Clause 5.4.3.9, Specs Part A)	14	29-Aug-21	11-Sep-21	01-Oct-21 A	11-Oct-21 A		[		
 D2_DP1110	Submit further information for the submitted Footing for Biogas Precondition Unit to IC (Clause 5.4.3.9, Specs Part A)	7	12-Sep-21	18-Sep-21	12-Oct-21 A	23-Nov-21 A		02 5	<del>2F</del> 1110	
	IC Comment on the re-submitted Footing for Biogas Precondition Unit (Clause 5.4.3.9, Specs Part A)	14	19-Sep-21	02-Oct-21	24-Nov-21 A	01-Dec-21	127		O2 DP1120	
D2_DP1130	Submit further information for the re-submitted Footing for BPU to IC (Clause 5.4.3.9, Specs Part A)	7	03-Oct-21	09-Oct-21	02-Dec-21	08-Dec-21	127	1	O2_DP1130	
02_DP1140	IC Certify Footing for Biogas Precondition Unit (Clause 5.4.3.9, Specs Part A)	14	10-Oct-21	23-Oct-21	09-Dec-21	22-Dec-21	127	1	02_DP114	140
2_DP1150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	1	24-Oct-21	24-Oct-21	23-Dec-21	23-Dec-21	127	1	02_DP1	1150
MPLOYER's (	CONSENT							1		
O2_DP1200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	1	25-Oct-21	25-Oct-21	24-Dec-21	24-Dec-21	127	1	02_DP	P1200
O2_DP1210	ER Comment on the submitted Footing for Biogas Precondition Unit (Clause 5.4.3.17.c, Specs Part A)	14	26-Oct-21	08-Nov-21	25-Dec-21	07-Jan-22	127			O2_DP1210
02_DP1240	ER Consented Footing for Biogas Precondition Unit (Clause 5.4.3.17.a, Specs Part A)	0		08-Nov-21		07-Jan-22	127	¢		♦ 07-Jan-22
D2_DP1250	Submit Two Complete Sets Footing for BPU to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	1	09-Nov-21	09-Nov-21	08-Jan-22	08-Jan-22	127			O2_DP1250
O2_DP1260	Design Registered - Footing for Biogas Precondition Unit	1	10-Nov-21	10-Nov-21	09-Jan-22	09-Jan-22	127			O2_DP1260
8.19g - RETAIN	NING WALL (AT RECEPTION BUILDING ENTRANCE)									
CHECKING	& CERTIFICATION									
D2_DW1130	Submit further information for the re-submitted Retaining Wal to IC (Clause 5.4.3.9, Specs Part A)	7	01-Sep-21	07-Sep-21	08-Sep-21 A	09-Nov-21 A		O2 DW1130	<b>-</b>	
D2_DW1140	IC Certify Retaining Wall (Clause 5.4.3.9, Specs Part A)	14	08-Sep-21	21-Sep-21	27-Oct-21 A	01-Dec-21	166		O2_DW1140	
2_DW1150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	22-Sep-21	28-Sep-21	02-Dec-21	08-Dec-21	166	1	O2_DW1150	
IPLOYER's (	CONSENT							1		
2_DW1200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	29-Sep-21	05-Oct-21	09-Dec-21	15-Dec-21	166	1	O2_DW1200	
02_DW1210	ER Comment on the submitted Retaining Wall (Clause 5.4.3. 17. c, Specs Part A)	14	06-Oct-21	19-Oct-21	16-Dec-21	29-Dec-21	166	<b> </b>	)	02_DW1210
D2_DW1220	Submit further information for the submitted Retaining Wall to ER (Clause 5.4.3. 19, Specs Part A)	7	20-Oct-21	26-Oct-21	30-Dec-21	05-Jan-22	166	1		O2_DW1220
D2_DW1230	ER Comment on the re-submitted Retaining Wall (Clause 5.4.3.17.a, Specs Part A)	14	27-Oct-21	09-Nov-21	06-Jan-22	19-Jan-22	166	<b></b>		
O2_DW1240	ER Consented Retaining Wall (Clause 5.4.3.17.a, Specs Part A)	0		09-Nov-21		19-Jan-22	166	◆		
D2_DW1250	Submit Two Complete Sets Retaining Wall to IC, ER for Register Design (Clause 5.4.3.22, Specs Part A)	7	10-Nov-21	16-Nov-21	20-Jan-22	26-Jan-22	166			
O2_DW1260	Design Registered - Retaining Wall	7	17-Nov-21	23-Nov-21	27-Jan-22	02-Feb-22	166			
	ANICAL ENTRANCE GATE (FOUNDATION & POST)									
	& CERTIFICATION IC Comment on the submitted Mechanical Entrance Gate (Clause 5.4.3.9, Specs Part A)	14	01-Feb-22	14-Feb-22	25 Nev 22 A	14 Dec 21	207	1		
O2_DH1100	Submit further information for the submitted Mechanical Entrance Gate (Glause 5.4.3.9, Specs Part A)	7	15-Feb-22	21-Feb-22	25-Nov-22 A 15-Dec-21	14-Dec-21	227 227	1		
O2_DH1110 O2_DH1120	Submit further information for the submitted Mechanical Entrance Gate (Clause 5.4.3.9, Specs Part A) IC Comment on the re-submitted Mechanical Entrance Gate (Clause 5.4.3.9, Specs Part A)	14	-	21-Feb-22 07-Mar-22	-	21-Dec-21	227	1		
_	Submit further information for the re-submitted Mechanical Entrance Gate (Clause 5.4.3.9, Specs Part A)	7	22-Feb-22 08-Mar-22	14-Mar-22	22-Dec-21 05-Jan-22	04-Jan-22 11-Jan-22	227	ł		
D2_DH1130 D2_DH1140	IC Certify Mechanical Entrance Gate (Clause 5.4.3.9, Specs Part A)	14	15-Mar-22	28-Mar-22	12-Jan-22	25-Jan-22	227	1		
D2_DH1140	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	29-Mar-22	04-Apr-22	26-Jan-22	01-Feb-22	227	1		
EMPLOYER's (		1	20-IVIEI -22	0474pi-22	20-0611-22	01-1 00-22	221	1		
O2 DH1200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	05-Apr-22	11-Apr-22	02-Feb-22	08-Feb-22	227	1		
O2_DH1210	ER Comment on the submitted Mechanical Entrance Gate (Clause 5.4.3.17.c, Specs Part A)	14	12-Apr-22	25-Apr-22	09-Feb-22	22-Feb-22	227			
O2 DH1220	Submit further information for the submitted Mechanical Entrance Gate to ER (Clause 5.4.3.19, Specs Part A)	7	26-Apr-22	02-May-22	23-Feb-22	01-Mar-22	227	1		
_	ED CARPARK (FOUNDATION & STRUCTURE)			<b>,</b>						
SUBMISSION										
O2 DJ1000	Covered Carpark (Clause 5.4.3.9, Specs Part A)	0		31-Dec-21		08-Nov-21 A		•		08-Nov-21 A
-	& CERTIFICATION	U		0. 00021		00 HOT 21/1		[	-+	
O2_DJ1100	IC Comment on the submitted Covered Carpark (Clause 5.4.3.9, Specs Part A)	14	01-Jan-22	14-Jan-22	09-Nov-21 A	16-Nov-21 A				02_DJ
O2_D31100	Submit further information for the submitted Covered Carpark (Clause 5.4.3.9, Specs Part A)	7	15-Jan-22	21-Jan-22	17-Nov-21 A	23-Nov-21 A				
O2_DJ110 O2_DJ1120	IC Comment on the re-submitted Covered Carpark (Clause 5.4.3.9, Specs PartA)	14	22-Jan-22	04-Feb-22	24-Nov-21 A	29-Nov-21 A				
O2_DJ1130	Submit further information for the re-submitted Covered Carpark to IC (Clause 5.4.3.9, Specs Part A)	7	05-Feb-22	11-Feb-22	30-Nov-21 A	07-Dec-21	240	1		
	IC Certify Covered Carpark (Clause 5.4.3.9, Specs Part A)	14	12-Feb-22	25-Feb-22	08-Dec-21	21-Dec-21	240	[		
			26-Feb-22	04-Mar-22	22-Dec-21	28-Dec-21	240	1		
O2_DJ1140		7	20-Feb-22					1		
O2_DJ1140 O2_DJ1150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	1	20-Feb-22					•		
02_DJ1140 02_DJ1150 EMPLOYER'S (	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A) CONSENT	7		11-Mar-22	29-Dec-21	04-Jan-22	240			
O2_DJ1140 O2_DJ1150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)		05-Mar-22 12-Mar-22		29-Dec-21 05-Jan-22	04-Jan-22 18-Jan-22	240 240		<b>_</b>	
D2_DJ1140 D2_DJ1150 <b>MPLOYER'S (</b> D2_DJ1200 D2_DJ1210	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A) CONSENT Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	05-Mar-22	11-Mar-22						
02_DJ1140 02_DJ1150 <b>MPLOYER's (</b> 02_DJ1200	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)         CONSENT         Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)         ER Comment on the submitted Covered Carpark (Clause 5.4.3.17, c, Specs Part A)	7	05-Mar-22 12-Mar-22	11-Mar-22 25-Mar-22	05-Jan-22	18-Jan-22	240			
2_DJ1140 2_DJ1150 1PLOYER'S ( 2_DJ1200 2_DJ1210 2_DJ1220 2_DJ1220 2_DJ1230	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A) CONSENT Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A) ER Comment on the submitted Covered Carpark (Clause 5.4.3.17, c, Specs Part A) Submit further information for the submitted Covered Carpark to ER (Clause 5.4.3.19, Specs Part A)	7 14 7	05-Mar-22 12-Mar-22 26-Mar-22	11-Mar-22 25-Mar-22 01-Apr-22	05-Jan-22 19-Jan-22	18-Jan-22 25-Jan-22	240 240			
02_DJ1140 02_DJ1150 MPLOYER'S ( 02_DJ1200 02_DJ1210 02_DJ1220	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)         CONSENT         Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)         ER Comment on the submitted Covered Carpark (Clause 5.4.3.17.c, Specs Part A)         Submit further information for the submitted Covered Carpark to ER (Clause 5.4.3.19, Specs Part A)         ER Comment on the re-submitted Covered Carpark (Clause 5.4.3.17.a, Specs Part A)	7 14 7 14	05-Mar-22 12-Mar-22 26-Mar-22	11-Mar-22 25-Mar-22 01-Apr-22 15-Apr-22	05-Jan-22 19-Jan-22	18-Jan-22 25-Jan-22 08-Feb-22	240 240 240			



File Name: WP_04.2021-3M.11 R2c Layout: ORRC2_WP_2021_3M Task filter: TASK filters: 3MK, 3MN, 3MRP. Date Printed: 22-Dec-21



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



	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float	Nov 28	Dec 29	
3.19k - WATEF	R PIPE SUPPORT (ALONG ACCESS ROAD)									
SUBMISSION										
O2_DK1000	Water Pipe Support (Clause 5.4.3.9, Specs Part A)	0		30-Sep-21		13-Dec-21*	37		13-Dec-21*	
	CERTIFICATION	44	01.0 + 01	44.0+04	44 Dec 04	07 D 01	07			DIVINO
O2_DK1100	IC Comment on the submitted Water Fipe Support (Clause 5.4.3.9, Specs Part A)	14	01-Oct-21	14-Oct-21	14-Dec-21	27-Dec-21	37			DK1100
O2_DK1110	Submit further information for the submitted Water Pipe Supportm to IC (Clause 5.4.3.9, Specs Part A)	7	15-Oct-21	21-Oct-21	28-Dec-21	03-Jan-22	37			O2_DK
O2_DK1120	IC Comment on the re-submitted Water Pipe Support (Clause 5.4.3.9, Specs Part A)	14	22-Oct-21	04-Nov-21	04-Jan-22	17-Jan-22	37			
O2_DK1130	Submit further information for the re-submitted Water Pipe Support to IC (Clause 5.4.3.9, Specs Part A)	7	05-Nov-21	11-Nov-21	18-Jan-22	24-Jan-22	37			5 5 5
O2_DK1140	IC Certify Water Pipe Support (Clause 5.4.3.9, Specs Part A)	14	12-Nov-21	25-Nov-21	25-Jan-22	07-Feb-22	37			
O2_DK1150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs Part A)	7	26-Nov-21	02-Dec-21	08-Feb-22	14-Feb-22	37		₽	
MPLOYER's										
O2_DK1200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs Part A)	7	03-Dec-21	09-Dec-21	15-Feb-22	21-Feb-22	37			1 2 1
O2_DK1210	ER Comment on the submitted Water Pipe Support (Clause 5.4.3.17.c, Specs Part A)	14	10-Dec-21	23-Dec-21	22-Feb-22	07-Mar-22	37			9 2 2 1
- BUILDING S										
.1 - BS- ELEC	CTRICAL SERVICES									
MPLOYER's C	CONSENT									8
02_C41150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	120	18-May-21	14-Sep-21	18-May-21 A	09-Nov-21 A		O2_C41150		
02_C41200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	15-Sep-21	17-Sep-21	10-Nov-21 A	16-Nov-21 A		O2_C41200		1
02_C41220	Submit further information for the submitted Electrical Services to ER (Clause 5.4.3.19, SpecsA)	7	18-Sep-21	24-Sep-21	17-Nov-21 A	24-Nov-21 A		02_0	1220	
02_C41230	ER Comment on the re-submitted Electrical Services (Clause 5.4.3.17.a, Specs A)	14	25-Sep-21	01-Oct-21	25-Nov-21 A	14-Dec-21	34		O2_C41230	1
02_C41240	ER Consented Electrical Services (Clause 5.4.3.17.a, Specs A)	0		01-Oct-21		14-Dec-21	34		◆ 14-Dec-21	
02_C41250	Submit Two Complete Sets Electrical Services to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	02-Oct-21	04-Oct-21	15-Dec-21	17-Dec-21	34		O2_C41250	2 2 8
02_C41260	Design Registered - Electrical Services	0		07-Oct-21		17-Dec-21	34		◆ 17-Dec-21	
2 - BS- MECH	HANICAL VENTILATION & AIR-CONDITIONING									
CHECKING &	& CERTIFICATION									
2_C42140	IC Certify Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.9, Specs A)	259	30-Dec-20	14-Sep-21	30-Dec-20 A	25-Nov-21 A		020	42140	
MPLOYER's C				· ·		,				
2 C42150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	15-Sep-21	17-Sep-21	26-Nov-21 A	14-Dec-21	8		O2 C42150	
2 C42200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	2	18-Sep-21	20-Sep-21	15-Dec-21	16-Dec-21	8		□ O2_C42200	1
2 C42220	Submit further information for the submitted Mechanical Ventilation & Air-Conditioning to ER (Clause 5.4.3.19, Specs A)	7	14-Sep-21	20-Sep-21	10-Dec-21	16-Dec-21	8		02_042220	8
02 C42230	ER Comment on the re-submitted Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.17.a, Specs A)	7	21-Sep-21	04-Oct-21	17-Dec-21	23-Dec-21	8		02_042220	230
02 C42240	ER Consented Mechanical Ventilation & Air-Conditioning (Clause 5.4.3.17.a, Specs A)	0	21 000 21	04-Oct-21		23-Dec-21	8		◆ 23-Dec-2	
02 C42250	Submit Two Complete Sets Mech Ventilation & Air-Conditioning to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	05-Oct-21	07-Oct-21	24-Dec-21	26-Dec-21	29		□ O2 0	
02 C42260	Design Registered - Mechanical Ventilation & Air-Conditioning	0	00 00 21	10-Oct-21	24 000 21	26-Dec-21	29		◆ 26-D	
.3 - BS- FIRE \$				10 04 21		20 200 21	20		20-0	0021
	& CERTIFICATION									
02 C43130	Submit further information for the re-submitted Fire Services to IC (Clause 5.4.3.9, Specs A)	413	14-Jul-20	30-Aug-21	14-Jul-20 A	08-Nov-21 A		00.040400		
-	IC Certify Fire Services (Clause 5.4.3.9, Specs A)	342		-				O2_C43130		
2_C43140		342	30-Sep-20	06-Sep-21	30-Sep-20 A	09-Nov-21 A		O2_C43140		
MPLOYER'S C			07.0 04	00.0 01	40 Nov 04 A	40 Nov 04 A				
02_C43150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	07-Sep-21	09-Sep-21	10-Nov-21 A	19-Nov-21 A		O2_C43150		
02_C43200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	10-Sep-21	12-Sep-21	20-Nov-21 A	22-Nov-21 A		02_C43		
02_C43220	Submit further information for the submitted Fire Services to ER (Clause 5.4.3.19, Specs A)	7	06-Sep-21	12-Sep-21	20-Nov-21 A	22-Nov-21 A		02_043		
2_C43230	ER Comment on the re-submitted Fire Services (Clause 5.4.3.17.a, Specs A)	14	13-Sep-21	19-Sep-21	23-Nov-21 A	14-Dec-21	14	-	02_C43230	1
2_C43240	ER Consented Fire Services (Clause 5.4.3.17.a, Specs A)	0		19-Sep-21		14-Dec-21	14	-	▼ 14-Dec-21	5 5 6
2_C43250	Submit Two Complete Sets Fire Services to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	20-Sep-21	22-Sep-21	15-Dec-21	17-Dec-21	14		O2_C43250	
2_C43260	Design Registered - Fire Services	0		25-Sep-21		17-Dec-21	14		◆ 17-Dec-21	
	MBING & DRAINAGE									5 5 6
MPLOYER's C										
2_C44150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	114	24-May-21	14-Sep-21	24-May-21 A	04-Nov-21 A		O2_C44150		2 2 2
2_C44200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	15-Sep-21	17-Sep-21	05-Nov-21 A	22-Nov-21 A		02_C44	200	
2_C44220	Submit further information for the submitted Plumbing & Drainage to ER (Clause 5.4.3.19, Specs A)	7	11-Sep-21	17-Sep-21	05-Nov-21 A	22-Nov-21 A			220	
2_C44230	ER Comment on the re-submitted Plumbing & Drainage (Clause 5.4.3.17.a, Specs A)	7	18-Sep-21	24-Sep-21	23-Nov-21 A	14-Dec-21	20		O2_C44230	
2_C44240	ER Consented Plumbing & Drainage (Clause 5.4.3.17.a, Specs A)	0		24-Sep-21		14-Dec-21	20		14-Dec-21	
02_C44250	Submit Two Complete Sets Plumbing & Drainage to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	25-Sep-21	27-Sep-21	15-Dec-21	17-Dec-21	35		O2_C44250	
D2_C44260	Design Registered - Plumbing & Drainage	0		30-Sep-21		17-Dec-21	35		◆ 17-Dec-21	
.5 - AUTOMAT	TIC IRRIGATION SYSTEM									
MPLOYER's C	CONSENT									
02_C45150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	7	29-Oct-21	31-Oct-21	21-Oct-21 A	09-Nov-21 A		O2_C45150		8
2_C45200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	01-Nov-21	03-Nov-21	09-Nov-21 A	09-Nov-21 A		O2_C45200		
	ER Comment on the submitted Automatic Irrigation System (Clause 5.4.3.17.c, Specs A)	0	31-Dec-20	06-Feb-21	09-Nov-21 A	09-Nov-21 A		© O2 C45210		
2_045210	Submit further information for the submitted Automatic Irrigation System to ER (Clause 5.4.3.19, Specs A)	0	28-Oct-21	03-Nov-21	09-Nov-21 A	09-Nov-21 A		O2_C45220		
-	ER Comment on the re-submitted Automatic Irrigation System (Clause 5.4.3.17.a, Specs A)	7	04-Nov-21	17-Nov-21	10-Nov-21 A	23-Nov-21 A		02_0 10220 02 C4	5230	8
		0		17-Nov-21		23-Nov-21 A		◆ 23-bev		8
02_C45210 02_C45220 02_C45230 02_C45240	ER Consented Automatic Irrigation System (Clause 5.4.3.17.a, Specs A)		+	24-Nov-21	01-Dec-21	03-Dec-21	318		O2 C45250	
02_C45220 02_C45230 02_C45230 02_C45240	ER Consented Automatic Irrigation System (Clause 5.4.3.17.a, Specs A) Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	18-Nov-21				318		♦ 03-Dec-21	8
02_C45220 02_C45230 02_C45240 02_C45250	Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)		18-Nov-21			03-Dec-21				
02_C45220 02_C45230 02_C45240 02_C45250 02_C45260	Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A) Design Registered - Automatic Irrigation System	3	18-Nov-21	01-Dec-21		03-Dec-21	010	¥	•	
02_C45220 02_C45230 02_C45240 02_C45250 02_C45250 02_C45260 .6 - BS- ELV (1	Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A) Design Registered - Automatic Irrigation System (INCLUDING CCTV, PA, BMS, SECURITY, ETC.)	3	18-Nov-21			03-Dec-21	010	¥	•	
2_C45220 22_C45230 22_C45240 22_C45250 22_C45250 22_C45260 .6 - BS- ELV (I CHECKING 8	Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A) Design Registered - Automatic Irrigation System (INCLUDING CCTV, PA, BMS, SECURITY, ETC.) & CERTIFICATION	3		01-Dec-21	16 bm 01 Å			Y		
22_C45220 22_C45230 22_C45240 22_C45250 22_C45260 .6 - BS- ELV (I CHECKING & 22_C46130	Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A) Design Registered - Automatic Irrigation System (INCLUDING CCTV, PA, BMS, SECURITY, ETC.) & CERTIFICATION Submit further information for the re-submitted ELV to IC (Clause 5.4.3.9, Specs A)	3 0 130	16-Jan-21	01-Dec-21 25-May-21	16-Jan-21 A	09-Dec-21	44	¥	O2_C46130	40
02_C45220 02_C45230 02_C45240 02_C45250 02_C45250 02_C45260 .6 - BS- ELV (1	Submit Two Complete Sets Automatic Irrigation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)         Design Registered - Automatic Irrigation System         (INCLUDING CCTV, PA, BMS, SECURITY, ET C.)         & CERTIFICATION         Submit further information for the re-submitted ELV to IC (Clause 5.4.3.9, Specs A)         IC Certify ELV (Clause 5.4.3.9, Specs A)	3		01-Dec-21	16-Jan-21 A 01-Apr-21 A			¥		140

 Layout: ORRC2_WP_2021_3M

 Task filter: TASK filters: 3MK, 3MN, 3MRP.

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Level of Effort ¢ • A Baseline Mileston Organic Waste Treatment Facilities, Phase 2 Works Programme 3rd Issue 3-Months Rolling Programme

	2	2022 Feb		Mar
		Feb 31		32
O2_DK1120				
02_DK				
	02_	DK1140 O2_DK11	50	
			D2_DK1200	02_DK1210
		_	(	
Date	Re	evision	Checked	Approved
30-Nov-21				
	I			

Activity ID	Activity Name	Original	Baseline Start	Baseline Finish	Start	Finish	Total	2	021			2022
Activity ID		Duration	Date	Date	Otan	Timon	Float		Dec 29	Jan 20		Feb 31
O2_C46150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	15-Oct-21	17-Oct-21	24-Dec-21	26-Dec-21	44	20	29 02	C46150		
 O2_C46200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	18-Oct-21	20-Oct-21	27-Dec-21	29-Dec-21	44			Ø2_C46200		
O2_C46220	Submit further information for the submitted ELV to ER (Clause 5.4.3.19, Specs A)	7	14-Oct-21	20-Oct-21	23-Dec-21	29-Dec-21	44		•	02 C46220		
O2_C46230	ER Comment on the re-submitted ELV (Clause 5.4.3.17.a, Specs A)	7	21-Oct-21	03-Nov-21	30-Dec-21	05-Jan-22	44			O2_C46230		
O2_C46240	ER Consented ELV (Clause 5.4.3.17.a, Specs A)	0		03-Nov-21		05-Jan-22	44	▲		♦ 05-Jan-22		
O2_C46250	Submit Two Complete Sets ELV to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	04-Nov-21	06-Nov-21	06-Jan-22	08-Jan-22	44			O2 C46250		
O2_C46260	Design Registered - ELV	0		09-Nov-21		08-Jan-22	44	 		◆ 08-Jan-22		
C4.7 - SURPLUS	S ENERGY EXPORT SYSTEM							• •				
IC CHECKING	& CERTIFICATION									1 1 1		
O2_C47130	Submit further information for the re-submitted Surplus Energy Export System to IC (Clause 5.4.3.9, Specs A)	7	24-Sep-21	07-Oct-21	12-Oct-21 A	18-Nov-21 A		02_C471 <del>30</del>				
O2_C47140	IC Certify Surplus Energy Export System (Clause 5.4.3.9, Specs A)	7	08-Oct-21	21-Oct-21	19-Nov-21 A	29-Nov-21 A			O2 C47140			
EMPLOYER's	CONSENT								-			
O2 C47150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	14	22-Oct-21	24-Oct-21	01-Dec-21	14-Dec-21	34		O2 C47150			
O2 C47200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	25-Oct-21	27-Oct-21	15-Dec-21	17-Dec-21	34		O2_C47200			
 O2_C47210	ER Comment on the submitted Surplus Energy Export System (Clause 5.4.3.17.c, Specs A)	14	28-Oct-21	10-Nov-21	18-Dec-21	31-Dec-21	34			O2_C47210		
O2_C47220	Submit further information for the submitted Surplus Energy Export System to ER (Clause 5.4.3.19, Specs A)	7	11-Nov-21	17-Nov-21	01-Jan-22	07-Jan-22	34			O2 C47220		
 O2_C47230	ER Comment on the re-submitted Surplus Energy Export System (Clause 5.4.3.17.a, Specs A)	7	18-Nov-21	01-Dec-21	08-Jan-22	14-Jan-22	34			O2 C4723	0	
O2 C47240	ER Consented Surplus Energy Export System (Clause 5.4.3.17.a, Specs A)	0		01-Dec-21		14-Jan-22	34		T.	◆ 14-Jan-22		
O2_C47250	Submit Two Complete Sets Surplus Energy Export System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	2	02-Dec-21	04-Dec-21	15-Jan-22	16-Jan-22	34		<b>~</b>	□ 02_C47	250	
O2_C47260	Design Registered - Surplus Energy Export System	0		07-Dec-21		16-Jan-22	34			◆ 16-Jan-2		
C4.8 - LIFT											-	
	& CERTIFICATION											
O2 C48130	Submit further information for the re-submitted Lift to IC (Clause 5.4.3.9, Specs A)	185	11-Nov-20	14-May-21	11-Nov-20 A	09-Dec-21	6		O2_C48130			
O2_C48140	IC Certify Lift (Clause 5.4.3.9, Specs A)	202	10-Feb-21	30-Aug-21	10-Feb-21 A	23-Dec-21	6		02_048130	140		
		202	10-1 eb-21	30-Aug-21	10-1 60-21 A	23-060-21	0		02_046	140		
EMPLOYER's		0	04 Ave 04	00.0 01	04 D == 04	00 Day 01	0					
O2_C48150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	31-Aug-21	02-Sep-21	24-Dec-21	26-Dec-21	6		₀₂			
O2_C48200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	03-Sep-21	05-Sep-21	27-Dec-21	29-Dec-21	6			Ø2_C48200		
O2_C48210	ER Comment on the submitted Lift (Clause 5.4.3.17.c, Specs A)	7	06-Sep-21	12-Sep-21	30-Dec-21	05-Jan-22	6		-	02_C48210		
O2_C48220	Submit further information for the submitted Lift to ER (Clause 5.4.3.19, Specs A)	7	13-Sep-21	19-Sep-21	06-Jan-22	12-Jan-22	6			O2_C48220		
O2_C48230	ER Comment on the re-submitted Lift (Clause 5.4.3.17.a, Specs A)	7	20-Sep-21	26-Sep-21	13-Jan-22	19-Jan-22	6				C48230	
O2_C48240	ER Consented Lift (Clause 5.4.3.17.a, Specs A)	0		26-Sep-21		19-Jan-22	6			◆ 19-J		
O2_C48250	Submit Two Complete Sets Lift to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	27-Sep-21	29-Sep-21	20-Jan-22	22-Jan-22	6				O2_C48250	
O2_C48260	Design Registered - Lift	0		02-Oct-21		22-Jan-22	6			• 2	22-Jan-22	
C5 - E&M PROCI	ESS											
STAGE 1 SUBM	IISSIONS (Process Design)											
C5.1 - STAGE 1	1 - WASTE ARRIVAL AND EXIT (WEIGHBRIDGE, TRUCK WASHING, TRAFFIC CONTROL)											
IC CHECKING	& CERTIFICATION											
O2_C51140	IC Certify Waste Arrival and Exit (Clause 5.4.3.9, Specs A)	14	13-Oct-21	26-Oct-21	30-Sep-21 A	04-Nov-21 A		O2 C51140	4			
C5.5 - STAGE 1	1 - BIOGAS CLEANING & STORAGE SYSTEM AND FLARE				(							
C5.5.7 - STAG	E1-FLARE											
IC CHECKING &	CERTIFICATION											
O2 C55 S1-3	34 Submit further information for the re-submitted Flare to IC (Clause 5.4.3.9, Specs A)	155	28-Apr-21	29-Sep-21	28-Apr-21 A	10-Dec-21	14		O2_C55_S1-340			
	E IC Certify Flare (Clause 5.4.3.9, Specs A)	14	30-Sep-21	13-Oct-21	23-Oct-21 A	24-Dec-21	14			55 S1-350		
	STAGE 1 - CHP								02_0			
O2 C56130	Submit further information for the re-submitted CHP to IC (Clause 5.4.3.9, Specs A)	418	08-Aug-20	29-Sep-21	08-Aug-20 A	01-Nov-21 A		O2_C56130				
O2_C56140	IC Certify CHP (Clause 5.4.3.9, Specs A)	148	12-May-21	06-Oct-21	-	10-Nov-21 A		O2_C30130	]			
		140	12-ividy-2 i	00-00-21	12-Ividy-21A	10-110-21A		02_030140				
	1 - CENTRALISED AIR POLLUTION CONTROL SYSTEM											
	S & CERTIFICATION											
O2_C59130	Submit further information for the re-submitted CAPC System to IC (Clause 5.4.3.9, Specs A)	35	29-Sep-21	08-Oct-21	12-Oct-21 A	29-Oct-21 A		O2_C59130				
O2_C59140	IC Certify CAPC System (Clause 5.4.3.9, Specs A)	14	09-Oct-21	22-Oct-21	22-Oct-21 A	09-Nov-21 A		O2_C59140				
	1 - ELECTRICAL WORKS (PROCESS)											
	& CERTIFICATION											
O2_C511110	Submit further information for the submitted Electrical Works to IC (Clause 5.4.3.9, Specs A)	442	30-Jun-20	14-Sep-21	30-Jun-20 A	17-Nov-21 A		O2_C511110				
O2_C511120	IC Comment on the re-submitted Electrical Works (Clause 5.4.3.9, Specs A)	14	15-Sep-21	28-Sep-21	18-Nov-21 A	30-Nov-21 A			O2_C511120	1		
O2_C511130	Submit further information for the re-submitted Electrical Works to IC (Clause 5.4.3.9, Specs A)	14	29-Sep-21	12-Oct-21	01-Dec-21	14-Dec-21	37		O2_C511130			
O2_C511140	IC Certify Electrical Works (Clause 5.4.3.9, Specs A)	14	13-Oct-21	26-Oct-21	15-Dec-21	28-Dec-21	37			D2_C511140		
C5.2 - STAGE 1	1 - WASTE RECEIVING, STORAGE AND FEEDING SYSTEM				(							
IC CHECKING	& CERTIFICATION											
O2 C52140	IC Certify Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	188	10-Mar-21	13-Sep-21	10-Mar-21 A	09-Nov-21 A		O2 C52140				
	1 - PRE-TREATMENT SYSTEM (HAMMER MILL, LIQUID STORAGE, CONVEYORS)											
	S & CERTIFICATION											
	IC Certify Pre-Treatment System (Clause 5.4.3.9, Specs A)	188	10-Mar-21	13-Sep-21	10-Mar-21 A	09-Nov-21 A		O2 C53140				
	TAGE 1 - ENERGY RECOVERY	100	10-Ividi -2 I	13-3ep-21	TO-IVIAI-21A	03-110V-21A		02_033140				
	S & CERTIFICATION											
	IC Certify Energy Recovery (Clause 5.4.3.9, Specs A)	14	16-Oct-21	29-Oct-21	26-Oct-21 A	29-Oct-21 A		O2_C56550e				
	1 - DEWATERING AND GRANULATION SYSTEM											
IC CHECKING	3 & CERTIFICATION											
O2_C57130	Submit further information for the re-submitted Dewatering & Granulation System to IC (Clause 5.4.3.9, Specs A)	140	13-Apr-21	30-Aug-21	13-Apr-21 A	02-Nov-21 A		O2_C57130				
O2_C57140	IC Certify Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	136	01-May-21	13-Sep-21	01-May-21 A	04-Nov-21 A		O2_C57140	4			
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		nainingWork nainingWork (Critical)					Cont	ract No. EP/SP/86/	15			1001010
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	Task filter: TASK filters: 3MK 3MN 3MRP	al work al of Effort			0	rganic V	vast	e Treatment Facilit	ies, Phase 2			
JEL	Date Printed: 22-Dec-21	nary Baseline				W	orks	Programme 3rd Is	sue			
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A.A.O	INT VENTURE Page 7 of 14	t Milestone				3-	Mont	ths Rolling Prograi	mme		L	

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		Duration	Date	Date			Float	Nov 28	29	30	31
C5.10 - STAGE 1											
	& CERTIFICATION Submit further information for the re-submitted C&I Works to IC (Clause 5.4.3.9, SpecsA)	149	24-Apr-21	19-Sep-21	24-Apr-21 A	14-Dec-21	27		O2_C510130		
	IC Certify C&I Works (Clause 5.4.3.9, SpecsA)	14	20-Sep-21	03-Oct-21	30-Sep-21 A	28-Dec-21	27			2 C510140	
	SSIONS (Process Equipment)									_	
C5.5 - STAGE 2	- BIOGAS CLEANING & STORAGE SYSTEM AND FLARE										
C5.5.7 - STAGE											
IC CHECKING & C			í	ſ	í			00.055.00.700			
	IC Comment on the re-submitted Flare (Clause 5.4.3.9, Specs A)	14			23-Oct-21 A	01-Nov-21 A	74	02_C55_S2-730	O2 C55 S2-740		
	Submit further information for the re-submitted Flare to IC (Clause 5.4.3.9, Specs A) IC Certify Flare (Clause 5.4.3.9, Specs A)	7			02-Nov-21 A 11-Dec-21	10-Dec-21 24-Dec-21	74		02_003_02-140	5 S2-750	
C5.6.2, 3 & 4 - S		14			11-200-21	24-000-21	14				
	& CERTIFICATION										
O2_C56_S2-12(	Submit further information for the submitted CHP to IC (Clause 5.4.3.9, Specs A)	221	24-Feb-21	02-Oct-21	24-Feb-21 A	01-Nov-21 A		O2_C56_S2-120			
O2_C56_S2-13(	IC Comment on the re-submitted CHP (Clause 5.4.3.9, Specs A)	14	03-Oct-21	16-Oct-21	02-Nov-21 A	10-Nov-21 A		O2_C56_S2-130			
	Submit further information for the re-submitted CHP to IC (Clause 5.4.3.9, Specs A)	14	17-Oct-21	30-Oct-21	10-Nov-21 A	10-Nov-21 A		O2_C56_S2-140			
	IC Certify CHP (Clause 5.4.3.9, Specs A)	14	31-Oct-21	13-Nov-21	10-Nov-21 A	10-Nov-21 A		02_C56_S2-150			
	WASTEWATER TREATMENT PLANT										
O2 C58 S2-100	Wastewater Treatment Plant (Clause 5.4.3.9, Specs A)	267	07-Dec-20	30-Aug-21	07-Dec-20 A	03-Nov-21 A		O2_C58_S2-100			
	& CERTIFICATION	201	01-DC0-20	50-Aug-21	01-200-2014	05-100-2174		02_000_02-100		· · · · · · · · · · · · · · · · · · ·	
	IC Comment on the submitted Wastewater Treatment Plant (Clause 5.4.3.9, Specs A)	229	28-Jan-21	13-Sep-21	28-Jan-21 A	11-Nov-21 A		02 C58 52-110			
	Submit further information for the submitted Wastewater Treatment Plant to IC (Clause 5.4.3.9, SpecsA)	172	09-Apr-21	27-Sep-21	09-Apr-21 A	14-Dec-21	15		O2_C58_S2-120		
O2_C58_S2-130	IC Comment on the re-submitted Wastewater Treatment Plant (Clause 5.4.3.9, Specs A)	14	28-Sep-21	11-Oct-21	03-May-21 A	28-Dec-21	15			2_C58_S2-130	
O2_C58_S2-14(	Submit further information for the re-submitted Wastewater Treatment Plant to IC (Clause 5.4.3.9, Specs A	) 14	12-Oct-21	25-Oct-21	29-Dec-21	11-Jan-22	15			O2_C58_S2-140	
	IC Certify Wastewater Treatment Plant (Clause 5.4.3.9, Specs A)	14	26-Oct-21	08-Nov-21	12-Jan-22	25-Jan-22	15			02_	_C58_S2-150
	CENTRALISED AIR POLLUTION CONTROL SYSTEM										
	& CERTIFICATION	00	00 14 04	40.0+04	00 14 04 4	44 D-+ 04	- 11				
	Submit further information for the submitted CAPC System to IC (Clause 5.4.3.9, Specs A)	83	22-Jul-21 13-Oct-21	12-Oct-21 26-Oct-21	22-Jul-21 A 15-Dec-21	14-Dec-21 28-Dec-21	14		O2_C59_S2-120	0 050 50 120	
	IC Comment on the re-submitted CAPC System (Clause 5.4.3.9, Specs A) Submit further information for the re-submitted CAPC System to IC (Clause 5.4.3.9, Specs A)	7	27-Oct-21	02-Nov-21	29-Dec-21	04-Jan-22	14			2_C59_S2-130 O2_C59_S2-140	
	IC Certify CAPC System (Clause 5.4.3.9, Specs A)	14	03-Nov-21	16-Nov-21	05-Jan-22	18-Jan-22	14	<b></b>		02_005_02-140 02_059_S2-	150
	2- ELECTRICAL WORKS (PROCESS)										
IC CHECKING &	& CERTIFICATION										
O2_C511_S2-12	Submit further information for the submitted Electrical Works to IC (Clause 5.4.3.9, Specs A)	14	28-Sep-21	11-Oct-21	21-Aug-21 A	22-Nov-21 A		02_65	1_S2-120		
O2_C511_S2-13	IC Comment on the re-submitted Electrical Works (Clause 5.4.3.9, Specs A)	14	12-Oct-21	25-Oct-21	23-Nov-21 A	30-Nov-21 A			O2_C511_S2-130		
	Submit further information for the re-submitted Electrical Works to IC (Clause 5.4.3.9, Specs A)	7	26-Oct-21	01-Nov-21	30-Nov-21 A	30-Nov-21 A		=	O2_C511_S2-140		
	IC Certify Electrical Works (Clause 5.4.3.9, Specs A)	14	02-Nov-21	15-Nov-21	30-Nov-21 A	30-Nov-21 A			O2_C511_S2-150		
	AGE 2 - WASTE RECEIVING & PRE-TREATMENT SYSTEMS										
	Submit Stage 2 Waste Receiving and Pre-Treatment Equipment Submissions: Eisele	276	20-Nov-20	22-Aug-21	20-Nov-20 A	16-Nov-21 A		O2_C52A21020		· · · · · · · · · · · · · · · · · · ·	
	IC Approve Stage 2 Waste Receiving and Pre-Treatment Equipment Submission: Eisele	149	10-Apr-21	05-Sep-21	10-Apr-21 A	22-Nov-21 A		_	2A21030		
SUMA								02_00	2.000		
	IC Approve Stage 2 Equipment Submission: SUMA	109	19-Feb-21	07-Jun-21	19-Feb-21 A	04-Nov-21 A		O2_C52A21050			
All Other Equip	oment										
O2_C52A21100	Submit Stage 2 Waste Receiving and Pre-Treatment Equipment Submissions: Other Equipment	114	31-May-21	21-Sep-21	31-May-21 A	19-Nov-21 A		02_C52A2	100		
_	IC Approve Stage 2 Waste Receiving and Pre-Treatment Equipment Submission: Other Equipment	10	22-Sep-21	20-Oct-21	20-Nov-21 A	10-Dec-21*	52		O2_C52A21110		
	- ANAEROBIC DIGESTION TREATMENT SYSTEM										
SUMA											
	IC Approve Stage 2 Equipment Submission: SUMA	109	19-Feb-21	07-Jun-21	19-Feb-21 A	01-Dec-21	164		O2_C54A21010		
Vogelsang	IC Approve Stope 2 Equipment Submission: Verdeena	81	15-Jun-21	03-Sep-21	15-Jun-21 A	04-Dec-21	05		O2 C54A21070		
Grundfos	IC Approve Stage 2 Equipment Submission: Vogelsang	01	IJ-JUII-21	00-0ep-21	13-5uir-21A	04-060-21	30		02_034A21070		
	Submit Stage 2 Equipment Submissions: Grundfos	154	29-Dec-20	31-May-21	29-Dec-20 A	04-Dec-21	49		O2 C54A21080		
	IC Approve Stage 2 Equipment Submission: Grundfos	62	31-May-21	31-May-21	31-May-21 A	17-Dec-21	637		O2 C54A21090		
Heating Coils											
O2_C54A21140	Submit Stage 2 Equipment Submissions: Heating Coils	269	19-Nov-20	14-Aug-21	19-Nov-20 A	04-Dec-21	66		O2_C54A21140		
O2_C54A21150	IC Approve Stage 2 Equipment Submission: Heating Coils	13	15-Aug-21	12-Sep-21	05-Dec-21	17-Dec-21	66		O2_C54A21150		
C5.7 - STAGE 2 -	- DEWATERING AND GRANULATION SYSTEM										
Huning					1						
	Submit Stage 2 Equipment Submissions: Huning	270	04-Dec-20	30-Aug-21	04-Dec-20 A	06-Dec-21	7		O2_C57A21020		
	IC Approve Stage 2 Equipment Submission: Huning	171	27-Mar-21	13-Sep-21	27-Mar-21 A	13-Dec-21	9		O2_C57A21030		
Borger	Submit Stage 2 Equipment Submissions: Borger	250	19-Dec-20	25-Aug-21	19-Dec-20 A	04-Dec-21	28		02 057421040		
	IC Approve Stage 2 Equipment Submission: Borger	125	07-May-21	08-Sep-21	07-May-21 A	17-Dec-21	20		O2_C57A21040 02 C57A21050		
Alfa Laval	107 pp 010 olugo 2 Equipmont oubmouth. Eorgoi	120	of may 21	00 00p 21	or may 2171	II DOULI	20		02_007721000	· ·	
	Submit Stage 2 Equipment Submissions: Alfa Laval	146	03-Jan-21	28-May-21	03-Jan-21 A	04-Dec-21	46		O2_C57A21060		
	IC Approve Stage 2 Equipment Submission: Alfa Laval	133	28-Jan-21	09-Jun-21	28-Jan-21 A	18-Dec-21	46		O2_C57A2107	, o	
Wangen									_		
O2_C57A21080	Submit Stage 2 Equipment Submissions: Wangen	101	18-Jan-21	28-Apr-21	18-Jan-21 A	04-Dec-21	88		O2_C57A21080		
		RemainingWork					<u> </u>			Date	e Revisio
	File Name: WP_04.2021-3M.11 R2c Layout: ORRC2_WP_2021_3M	Remaining Work (Critical)						ract No. EP/SP/86/	-	30-Nov-21	
	Task filter: TASK filters: 3MK, 3MN, 3MRP.	Actual Work			0	rganic V	Vast	e Treatment Facilit	ies, Phase 2		
JEC	Date Printed: 22-Dec-21	Level of Effort			_	-		Programme 3rd Is			
		A Baseline Milestone						-			
JA JOI	NT VENTURE Page 8 of 14	Start Milestone				3-	vion	ths Rolling Program	nne		1

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O2 C57A21090	IC Approve Stage 2 Equipment Submission: Wangen	108	29-Apr-21	14-Aug-21	29-Apr-21 A	18-Dec-21	636		O2 C57A21090	
Polymer Prepa			2070121	, ug 21	207012171	10 200 21		1	02_00// 21000	1
	Submit Stage 2 Equipment Submissions: Polymer Preparation	210	02-Feb-21	30-Aug-21	02-Feb-21 A	04-Dec-21	119		O2 C57A21100	8
	IC Approve Stage 2 Equipment Submission: Polymer Preparation	116	21-May-21	13-Sep-21	21-May-21 A	18-Dec-21	119		02_C57A21100	
	2 - CONTROL & INSTRUMENTATION WORKS	110	2 1-10kg-2 1	10-0cp-21	21-Widy-2174	10-00-21	113		02_03/A21110	4
								t		
All Equipment										
_	Submit Stage 2 C&I Equipment Submissions:	184	01-Mar-21	31-Aug-21	01-Mar-21 A	28-Dec-21	21		0	2_C510A21000
	IC Approve Stage 2 C&I Equipment Submission:	189	25-Mar-21	29-Sep-21	25-Mar-21 A	11-Jan-22	21			O2_C510A
	SSIONS (Process Installation)							1		
C5.1 - STAGE 3-	WASTE ARRIVAL AND EXIT (WEIGHBRIDGE, TRUCK WASHING, TRAFFIC CONTROL)							1		! ! !
IC CHECKING	& CERTIFICATION									
O2_C51_S3-12(	Submit further information for the submitted Waste Arrival and Exit to IC (Clause 5.4.3.9, Specs A)	216	11-Feb-21	14-Sep-21	11-Feb-21 A	30-Nov-21 A			O2_C51_S3-120	
O2_C51_S3-13(	IC Comment on the re-submitted Waste Arrival and Exit (Clause 5.4.3.9, Specs A)	104	10-Jun-21	21-Sep-21	10-Jun-21 A	09-Dec-21	160		O2 C51 S3-130	
O2 C51 S3-14(	Submit further information for the re-submitted Waste Arrival and Exit to IC (Clause 5.4.3.9, Specs A)	14	22-Sep-21	28-Sep-21	10-Dec-21	23-Dec-21	160	1	O2 C51	S3-140
	IC Certify Waste Arrival and Exit (Clause 5.4.3.9, Specs A)	7	29-Sep-21	12-Oct-21	24-Dec-21	30-Dec-21	160	1		O2 C51 S3-150
EMPLOYER'S								[		
O2 C51150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	27-Oct-21	29-Oct-21	31-Dec-21	02-Jan-22	160	1	ſ	O2 C51150
O2_001130	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	30-Oct-21	01-Nov-21	03-Jan-22	02-Jan-22	160			O2_C51200
										- 02_051200
O2_C51210	ER Comment on the submitted Waste Arrival and Exit (Clause 5.4.3.17.c, Specs A)	14	02-Nov-21	15-Nov-21	06-Jan-22	19-Jan-22	160			
O2_C51240	ER Consented Waste Arrival and Exit (Clause 5.4.3.17.a, Specs A)	0		15-Nov-21		19-Jan-22	160	·¥	'	
O2_C51250	Submit Two Complete Sets Waste Arrival and Exit to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	16-Nov-21	18-Nov-21	20-Jan-22	22-Jan-22	160			L
O2_C51260	Design Registered - Waste Arrival and Exit	0		21-Nov-21		22-Jan-22	160	<b>◇ ◇</b>		8
	BIOGAS CLEANING & STORAGE SYSTEM AND FLARE							1	1	1
C5.5.1 - STAGE	3- BIOGAS CLEANING SYSTEM								· · · · · · · · · · · · · · · · · · ·	
EMPLOYER's CO	NSENT								l	
O2_C55210	ER Comment on the submitted Biogas Cleaning System (Clause 5.4.3.17.c, Specs A)	3	15-Dec-21	17-Dec-21	15-Sep-21 A	14-Dec-21	111		O2_C55210	
O2_C55240	ER Consented Biogas Cleaning System (Clause 5.4.3.17.a, Specs A)	0		17-Dec-21		14-Dec-21	111	1	◆	
O2 C55250	Submit Two Complete Sets Biogas Cleaning System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	18-Dec-21	20-Dec-21	15-Dec-21	17-Dec-21	111	1	O2 C55250	
O2 C55260	Design Registered - Biogas Cleaning System	3	21-Dec-21	23-Dec-21	18-Dec-21	20-Dec-21	111	1		260
	3-BIOGAS STORAGE SYSTEM		21 000 21	20 200 21	10 200 21	20 200 21		1		
EMPLOYER's CO									<b>/</b> '	: : :
	,	44	00 D 01	41 5 04		44 5	75			
	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	14	09-Dec-21	11-Dec-21	01-Dec-21	14-Dec-21	75		02_C55_S3-260	
	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	12-Dec-21	14-Dec-21	15-Dec-21	17-Dec-21	75		02_C55_S3-270	
	ER Comment on the submitted Biogas Storage System (Clause 5.4.3.17.c, Specs A)	3	15-Dec-21	17-Dec-21	18-Dec-21	20-Dec-21	75		O2_C55_S3	-280
O2_C55_S3-29	ER Consented Biogas Storage System (Clause 5.4.3.17.a, Specs A)	0		17-Dec-21		20-Dec-21	75	I	◆ 20-Dec-21	: : :
O2_C55_S3-30	Submit Two Complete Sets Biogas Storage System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	18-Dec-21	20-Dec-21	21-Dec-21	23-Dec-21	75	1	C2_C55	
O2_C55_S3-31	Design Registered - Biogas Storage System	3	21-Dec-21	23-Dec-21	24-Dec-21	26-Dec-21	75		02_0	C55_S3-310
C5.5.9- STAGE	3-FLARE									
EMPLOYER's CO	NSENT									
O2_C55_S3-5€	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	14	09-Dec-21	11-Dec-21	25-Dec-21	07-Jan-22	111			O2_C55_S3-560
O2_C55_S3-57	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	12-Dec-21	14-Dec-21	08-Jan-22	10-Jan-22	111	1		O2_C55_S3
O2 C55 S3-58	ER Comment on the submitted Flare (Clause 5.4.3.17.c, Specs A)	3	15-Dec-21	17-Dec-21	11-Jan-22	13-Jan-22	111	1		□ O2 C55
	ER Consented Flare (Clause 5.4.3.17.a, Specs A)	0		17-Dec-21		13-Jan-22	111			◆ 13-Jan-2
	Submit Two Complete Sets Flare to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	18-Dec-21	20-Dec-21	14-Jan-22	16-Jan-22	111		▼	
	Design Registered - Flare	0		23-Dec-21		16-Jan-22	111			◆ 16-J
	3- ENERGY RECOVERY AND CHP	0		20 200 21		TO GUT 22				10-0
		440	00.4.00	00.01.01	00.4 00.4	00 N 01 A				
	Submit further information for the re-submitted CHP to IC (Clause 5.4.3.9, Specs A)	448	08-Aug-20	29-Oct-21	08-Aug-20 A	29-Nov-21 A	400		O2_C56_S3-140	
	IC Certify CHP (Clause 5.4.3.9, Specs A)	178	12-May-21	05-Nov-21	12-May-21 A	07-Dec-21	120		O2_C56_S3-150	
EMPLOYER's C									······	: : : :
	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	14	14-Nov-21	16-Nov-21	08-Dec-21	21-Dec-21	120	_	02_C56_S	
O2_C56_S3-17(	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	17-Nov-21	19-Nov-21	22-Dec-21	24-Dec-21	120	-	O2_C5	6_S3-170
O2_C56_S3-18(	ER Comment on the submitted CHP (Clause 5.4.3.17.c, Specs A)	14	20-Nov-21	03-Dec-21	25-Dec-21	07-Jan-22	120	·		O2_C56_S3-180
O2_C56_S3-19(	ER Consented CHP (Clause 5.4.3.17.a, Specs A)	0		03-Dec-21		07-Jan-22	120	I	<b> </b>	07-Jan-22
O2_C56_S3-20(	Submit Two Complete Sets CHP to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	04-Dec-21	10-Dec-21	08-Jan-22	10-Jan-22	120	$\sim$		O2_C56_S3
	Design Registered - CHP	0		17-Dec-21		10-Jan-22	120		~ ~	◆ 10-Jan-22
	3- WASTEWATER TREATMENT PLANT				·			Γ	, v v	
EMPLOYER's								1	· · · · · · · · · · · · · · · · · · ·	
O2 C58150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	09-Nov-21	11-Nov-21	26-Jan-22	28-Jan-22	51	1		5 5 8
	•	3	12-Nov-21	14-Nov-21	20-Jan-22 29-Jan-22	20-Jan-22 31-Jan-22	51			
O2_C58200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3 14			29-Jan-22 01-Feb-22		51		·'	
O2_C58210	ER Comment on the submitted Wastewater Treatment Plant (Clause 5.4.3.17.c, Specs A)		15-Nov-21	28-Nov-21	01-Feb-22	14-Feb-22				
O2_C58220	ER Consented Wastewater Treatment Plant (Clause 5.4.3.17.a, Specs A)	0		28-Nov-21		14-Feb-22	51			
O2_C58230	Submit Two Complete Sets Wastewater Treatment Plant to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	29-Nov-21	01-Dec-21	15-Feb-22	17-Feb-22	51	=	<b>-</b>	
O2_C58240	Design Registered - Wastewater Treatment Plant	0		04-Dec-21		17-Feb-22	51	1	♦ ♦	
C5.9.3 - STAGE	3- CENTRALISED AIR POLLUTION CONTROL SYSTEM							1		: : :
IC CHECKING	& CERTIFICATION							1		
O2_C59_S3-14(	Submit further information for the re-submitted CAPC System to IC (Clause 5.4.3.9, Specs A)	8	29-Sep-21	05-Oct-21	04-Sep-21 A	08-Dec-21	105		O2_C59_S3-140	
O2_C59 S3-15(	IC Certify CAPC System (Clause 5.4.3.9, Specs A)	14	06-Oct-21	19-Oct-21	09-Dec-21	22-Dec-21	105	1	O2_C59_S	\$3-150
EMPLOYER'S C								1		
O2 C59150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	17-Nov-21	19-Nov-21	19-Jan-22	21-Jan-22	78	-		
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	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float		2021 Dec	
O2 C59200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	20-Nov-21	22-Nov-21	22-Jan-22	24-Jan-22	78	28	29	
O2_000200 O2_000200	ER Comment on the submitted CAPC System (Clause 5.4.3.17.c, Specs A)	14	23-Nov-21	06-Dec-21	25-Jan-22	07-Feb-22	78			
O2_C59220	ER Consented CAPC System (Clause 5.4.3.17.a, Specs A)	0	20110121	06-Dec-21	20 041 22	07-Feb-22	78			
O2 C59230	Submit Two Complete Sets CAPC System to IC, ER for Register Design (Clause 5.4.3.22, SpecsA)	3	07-Dec-21	09-Dec-21	08-Feb-22	10-Feb-22	78		<b></b>	
O2 C59240	Design Registered - CAPC System	3	10-Dec-21	12-Dec-21	11-Feb-22	13-Feb-22	78			
_	E 3- ELECTRICAL WORKS (PROCESS)		10 200 21	IE DOUET	11100 22	101 00 22	10			
	& CERTIFICATION									
_	E IC Certify Electrical Works (Clause 5.4.3.9, Specs A)	6	06-Oct-21	19-Oct-21	17 Apr 21 A	06-Dec-21	59		02 C511 S3-150	
		0	06-0d-21	19-00-21	17-Apr-21 A	06-Dec-21	59		02_0511_53-150	
EMPLOYER's									_	-
O2_C511150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	16-Nov-21	18-Nov-21	29-Dec-21	31-Dec-21	37			02_C5111
O2_C511200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	19-Nov-21	21-Nov-21	01-Jan-22	03-Jan-22	37			02_C5
O2_C511210	ER Comment on the submitted Electrical Works (Clause 5.4.3.17.c, Specs A)	14	22-Nov-21	05-Dec-21	04-Jan-22	17-Jan-22	37		<u>+</u>	
O2_C511240	ER Consented Electrical Works (Clause 5.4.3.17.a, Specs A)	0		05-Dec-21		17-Jan-22	37		♦	
O2_C511250	Submit Two Complete Sets Electrical Works to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	06-Dec-21	08-Dec-21	18-Jan-22	20-Jan-22	37		_	
O2_C511260	Design Registered - Electrical Works	3	09-Dec-21	11-Dec-21	21-Jan-22	23-Jan-22	37			
C5.12 - STAGE 3	3- LIFTING APPLIANCE									
IC CHECKING	& CERTIFICATION									
O2_C512_S3-13	IC Comment on the re-submitted Lifting Appliance (Clause 5.4.3.9, Specs A)	14	15-Sep-21	28-Sep-21	02-Jul-21 A	08-Dec-21	32		O2_C512_S3-130	
O2_C512_S3-14	4 Submit further information for the re-submitted Lifting Appliance to IC (Clause 5.4.3.9, Specs A)	14	29-Sep-21	05-Oct-21	09-Dec-21	22-Dec-21	32	I	02_C512	2_S3-140
O2_C512_S3-1	IC Certify Lifting Appliance (Clause 5.4.3.9, Specs A)	14	06-Oct-21	19-Oct-21	23-Dec-21	05-Jan-22	32	1		02_0
EMPLOYER's C								[		
O2 C512150	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	27-Oct-21	29-Oct-21	06-Jan-22	08-Jan-22	32	I		
O2 C512200	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	30-Oct-21	01-Nov-21	09-Jan-22	11-Jan-22	32			
O2 C512210	ER Comment on the submitted Lifting Appliance (Clause 5.4.3.17.c, Specs A)	14	02-Nov-21	15-Nov-21	12-Jan-22	25-Jan-22	32	Ē		
O2_0512210	ER Consented Lifting Appliance (Clause 5.4.3.17.a, Specs A)	0		15-Nov-21		25-Jan-22	32			
O2_C312240	Submit Two Complete Sets Lifting Appliance to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	16-Nov-21	13-Nov-21	26-Jan-22	23-Jan-22 28-Jan-22	32	♦		-+
O2_C312250 O2_C512260	Design Registered - Lifting Appliance	0	10 1101-21	21-Nov-21	20.0011-22	28-Jan-22	32			
_	- STAGE 3 - WASTE RECEIVING, STORAGE AND FEEDING SYSTEM	0		21-1404-21		20-341-22	JZ	♦ ♦		
	& CERTIFICATION									
	Submit further information for the re-submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	103	28-Nov-20	10-Mar-21	28-Nov-20 A	12-Nov-21 A		02_C52-A3040	1	
	IC Certify Waste Receiving, Storage & Feeding System (Clause 5.4.3.9, Specs A)	9	11-Mar-21	19-Mar-21	11-Mar-21 A	12-Nov-21 A		O2_C52-A3050		
EMPLOYER's	CONSENT									
O2_C52-A3060	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	21-Oct-21	23-Oct-21	12-Nov-21 A	16-Nov-21 A		O2_C52-A3060	<del>د</del>	
O2_C52-A3070	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	24-Oct-21	26-Oct-21	16-Nov-21 A	08-Dec-21	41		O2_C52-A3070	
O2_C52-A3080	ER Comment on the submitted Waste Receiving, Storage & Feeding System (Clause 5.4.3. 17. a, Specs A)	14	27-Oct-21	09-Nov-21	09-Dec-21	22-Dec-21	41	L	O2_C52-/	A3080
O2_C52-A3090	ER Consented Waste Receiving, Storage & Feeding System (Clause 5.4.3.17.a, Specs A)	0		09-Nov-21		22-Dec-21	41	<b></b>	◆ 22-Dec-2 ⁻	21
O2_C52-A3100	Submit Two Complete Sets Waste Rec'v, Storage & Feeding System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	10-Nov-21	16-Nov-21	23-Dec-21	25-Dec-21	41		□ 02_C	C52-A3100
O2_C52-A3110	Design Registered - Waste Receiving, Storage & Feeding System	0		23-Nov-21		25-Dec-21	41	· · ·	◆ 25-De	ec-21
C5.4.5 - STAGE	3 SUBMISSION - AD SYSTEM									
IC CHECKING	& CERTIFICATION									
O2 C54-A3020	Submit further information for the submitted AD Treatment System to IC (Clause 5.4.3.9, Specs A)	7	14-Sep-21	20-Sep-21	29-Apr-20 A	28-Dec-21	4		C	02 C54-A3020
-	IC Comment on the re-submitted AD Treatment System (Clause 5.4.3.9, Specs A)	14	21-Sep-21	04-Oct-21	29-Dec-21	11-Jan-22	4			
-	Submit further information for the re-submitted AD Treatment System to IC (Clause 5.4.3.9, Specs A)	7	05-Oct-21	11-Oct-21	12-Jan-22	18-Jan-22	4	1		
-	IC Certify AD Treatment System (Clause 5.4.3.9, Specs A)	14	12-Oct-21	25-Oct-21	19-Jan-22	01-Feb-22				
EMPLOYER's (			.= 04.21	20 00 21		0.100-22	-	1		
_	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	26-Oct-21	28-Oct-21	02-Feb-22	04-Feb-22	4	t		
-						04-Feb-22 07-Feb-22	4	1		
-	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, Specs A)	3	29-Oct-21	31-Oct-21	05-Feb-22		4	2		
-	ER Comment on the submitted AD Treatment System (Clause 5.4.3.17.c, Specs A)		01-Nov-21	14-Nov-21	08-Feb-22	14-Feb-22	4			
	ER Consented AD Treatment System (Clause 5.4.3.17.a, Specs A)	0	45.12	14-Nov-21	45.5	14-Feb-22	4	♦		
	Submit Two Complete Sets AD Treatment System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	15-Nov-21	21-Nov-21	15-Feb-22	17-Feb-22	4			
	Design Registered - AD Treatment System	0		28-Nov-21		17-Feb-22	4	♦ ♦		
	3 - GRANULATION SYSTEM									
IC CHECKING	& CERTIFICATION									
O2_C57-A3020	Submit further information for the submitted Dewatering & Granulation System to IC (Clause 5.4.3.9, Specs A)	7	29-Sep-21	05-Oct-21	20-Aug-21 A	30-Nov-21 A			O2_C57-A3020	
O2_C57-A3030	IC Comment on the re-submitted Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	7	06-Oct-21	19-Oct-21	30-Nov-21 A	30-Nov-21 A		l	O2_C57-A3030	
O2_C57-A3040	Submit further information for the re-submitted Dewatering & Granulation System to IC (Clause 5.4.3.9, Specs A)	7	20-Oct-21	26-Oct-21	30-Nov-21 A	30-Nov-21 A			O2_C57-A3040	
O2_C57-A3050	IC Certify Dewatering & Granulation System (Clause 5.4.3.9, Specs A)	7	27-Oct-21	09-Nov-21	01-Dec-21	07-Dec-21	61		O2_C57-A3050	
EMPLOYER's									_	
	Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	10-Nov-21	12-Nov-21	08-Dec-21	10-Dec-21	61		O2_C57-A3060	
-	Submit Design Check Certificate & Method of Construction Check Certificate to ER (Clause 5.4.3.16, SpecsA)	3	13-Nov-21	15-Nov-21	11-Dec-21	13-Dec-21	98		□ O2 C57-A3070	
	ER Comment on the submitted Dewatering & Granulation System (Clause 5.4.3.17.c, Specs A)	7	16-Nov-21	29-Nov-21	14-Dec-21	20-Dec-21	98		02_007 / 0070 02_C57-A30	-+ 3080
-	ER Consented Dewatering & Granulation System (Clause 5.4.3.17.a, Specs A)	0		29-Nov-21		20-Dec-21 20-Dec-21	98		◆ 20-Dec-21	
	Submit Two Complete Sets Dewatering & Granulation System to IC, ER for Register Design (Clause 5.4.3.22, Specs A)	3	30-Nov-21	06-Dec-21	21-Dec-21	23-Dec-21	98		• 20-De0-21	7-43100
-	Design Registered - Dewatering & Granulation System	0	00-110V=21	13-Dec-21	21-000-21	23-Dec-21 23-Dec-21	90			i
		U		13-De0-21		23-060-21	90		♦ ♦ * 23-Dec-2	41
	E 3 - C&I WORKS									
	& CERTIFICATION									
O2_C510-A301(	( IC Comment on the submitted C&I Works (Clause 5.4.3.9, Specs A)	14	30-Sep-21	13-Oct-21	01-Jul-21 A	18-Dec-21	90		O2_C510-A301	10
	(Submit further information for the submitted C&I Works to IC (Clause 5.4.3.9, Specs A)	28	14-Oct-21	10-Nov-21	19-Dec-21	15-Jan-22	90			:
O2_C510-A3020									1	1
 O2_C510-A303(	IC Comment on the re-submitted C&I Works (Clause 5.4.3.9, Specs A)     Submit further information for the re-submitted C&I Works to IC (Clause 5.4.3.9, Specs A)	14	11-Nov-21	24-Nov-21	16-Jan-22	29-Jan-22	90			



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

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25-Jan-22			
O2_C512			
◆ 28-Jan-2			
54-A3030			
O2_C54-A3040			
	C54-A3050		
	O2_C54-A3060		
	O2_C54-A3070	42090	
	● 02_C54-	A3U8U 2	
	<ul> <li>▼ 14-Feb-2</li> <li>□ 02_0</li> </ul>	<u>~</u> 254-A3100	
	◆ 17-Fe	2-73 100 b-22	
02_C510-A3020			
02_C5			
_	02_C510-A	3040	
Date	Revision	Checked	Approved
30-Nov-21			
			l
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	Duration	Date	Date			Float	Nov 28	Dec 29	
02_C510-A305( IC Certify C&I Works (Clause 5.4.3.9, Specs A)	14	23-Dec-21	05-Jan-22	13-Feb-22	26-Feb-22	90			
MPLOYER'S CONSENT									
2_C510-A306( Obtain Design Check Certificate & Method of Construction Check Certificate (Clause 5.4.3.11 & 5.4.3.12, Specs A)	3	06-Jan-22	08-Jan-22	27-Feb-22	01-Mar-22	90			
1 - CBWD - GRANULATION BUILDING									
(1.1a - CBWD - GRANULATION BUILDING (G/F) CHECKING & CERTIFICATION									
D2 CBW1630 IC Certify CBWD Granulation - G/F	7	27-Aug-21	29-Aug-21	04-Oct-21 A	04-Oct-21 A				
MPLOYER'S CONSENT		217 Mg 21	207 kg 21	04 OG 2111	04 00 2177				
02_CBW1640 Obtain Design Check Certificate for CBWD Granulation - G/F	2	30-Aug-21	01-Sep-21	04-Oct-21 A	04-Oct-21 A				
02_CBW1650 Submit Design Check Certificate to ER	2	02-Sep-21	04-Sep-21	05-Oct-21 A	05-Oct-21 A				
D2_CBW1660 ER Comment on the submitted CBWD Granulation - G/F	2	05-Sep-21	07-Sep-21	06-Oct-21 A	19-Oct-21 A		60		
02_CBW1670 ER Consented CBWD Granulation - G/F	0		07-Sep-21		19-Oct-21 A				
1.2 - CBWD - GRANULATION BUILDING (MF)									
CHECKING & CERTIFICATION 2 CBW1220 Submit further information for the submitted CBWD Granulation - MF	26	07-Sep-21	13-Sep-21	01-Sep-21 A	23-Nov-21 A		02.0	DW(1000	
22_CBW1220 Submit that the information for the submittee CBWD Granulation - IWP 22 CBW1250 IC Certify CBWD Granulation - WF	3	14-Sep-21	20-Sep-21	24-Nov-21 A	03-Dec-21	27		W1220 O2_CBW1250	
IPLOYER'S CONSENT	0	14 00p 21	20 00p 21	E4 NOV EI/Y	00 200 21	21		02_00/1200	
2_CBW1260 Obtain Design Check Certificate for CBWD Granulation - WF	3	21-Sep-21	23-Sep-21	04-Dec-21	06-Dec-21	32		O2_CBW1260	
2_CBW1270 Submit Design Check Certificate to ER	1	24-Sep-21	26-Sep-21	07-Dec-21	07-Dec-21	32		02_CBW1270	
2_CBW1280 ER Comment on the submitted CBWD Granulation - M/F	1	27-Sep-21	29-Sep-21	08-Dec-21	08-Dec-21	32		02_CBW1280	
D2_CBW1290 ER Consented CBWD Granulation - M/F	0		29-Sep-21		08-Dec-21	32		08-Dec-21	
1.1.3 - CBWD - GRANULATION BUILDING (R/F)									
JEMISSION	00	01 Aur 04	20 Aura 04	01 New 04 A	22 Nov 04 A			DA/1400	
D2_CBW1400         Prepare & Submit CBWD Granulation - R/F           CHECKING & CERTIFICATION	28	01-Aug-21	30-Aug-21	01-Nov-21 A	23-1NOV-21 A		02 <u>-</u> 0	EW1400	
D2 CBW1410 IC Comment on the CBWD Granulation - R/F	7	31-Aug-21	06-Sep-21	24-Nov-21 A	29-Nov-21 A			O2 CBW1410	
D2 CBW1420 Submit further information for the submitted CBWD Granulation - R/F	3	07-Sep-21	13-Sep-21	29-Nov-21 A	03-Dec-21	23		O2 CBW1420	
	1	14-Sep-21	20-Sep-21	03-Dec-21	03-Dec-21	23		0 O2 CBW1450	
IPLOYER'S CONSENT								_	
02_CBW1460 Obtain Design Check Certificate for CBWD Granulation - R/F	3	21-Sep-21	23-Sep-21	04-Dec-21	06-Dec-21	23		O2_CBW1460	
02_CBW1470 Submit Design Check Certificate to ER	1	24-Sep-21	26-Sep-21	07-Dec-21	07-Dec-21	23		02_CBW1470	
2_CBW1480 ER Comment on the submitted CBWD Granulation - R/F	7	27-Sep-21	29-Sep-21	08-Dec-21	14-Dec-21	23		O2_CBW1480	
02_CBW1490 ER Consented CBWD Granulation - R/F	0		29-Sep-21		14-Dec-21	23		◆ 14-Dec-21	
2 - CBWD - RECEPTION BUILDING									
2.1a - CBWD - RECEPTION BUILDING (G/F)									
2_CBW2080 ER Comment on the submitted CBWD Reception Bldg (G/F)	13	24-Aug-21	26-Aug-21	07-Oct-21 A	19-Oct-21 A		80		
2_CBW2090 ER Consented CBWD Reception Bidg (G/F)	0	217 mg 21	26-Aug-21	0.042	19-Oct-21 A		00		
2.2 - CBWD - RECEPTION BUILDING (Admin. Bldg)			- J						
MPLOYER'S CONSENT									
D2_CBW2280 ER Comment on the submitted CBWD Reception Bldg (Admin. Bldg)	22	21-Sep-21	23-Sep-21	01-Oct-21 A	19-Oct-21 A		80		
D2_CBW2290 ER Consented CBWD Reception Bldg (Admin. Bldg)	0		23-Sep-21		19-Oct-21 A				
2.3 - CBWD - RECEPTION BUILDING (R/F)									
JEMISSION									
D2_CBW2400         Prepare & Submit CBWD Reception Bldg (R/F)           CHECKING & CERTIFICATION	204	08-Feb-21	30-Aug-21	08-Feb-21 A	19-Nov-21 A		02_CBW24	400	
D2_CBW2410 IC Comment on the CBWD Reception Bldg (R/F)	7	31-Aug-21	06-Sep-21	20-Nov-21 A	26-Nov-21 A			2 CBW2410	
22_CBW2410 IC Comment on the CBWD Reception Bug (R/F) 22_CBW2420 Submit further information for the submitted CBWD Reception Bldg (R/F)	7	07-Sep-21	13-Sep-21	20-1NOV-21 A 27-Nov-21 A	20-Nov-21 A			O2 CBW2410	
2_BW2450 IC Certify CBWD Reception Bldg (R/F)	7	14-Sep-21	20-Sep-21	29-Nov-21 A	30-Nov-21 A		.	02_CBW2450	
IPLOYER'S CONSENT									
02_CBW2460 Obtain Design Check Certificate for CBWD Reception Bldg (R/F)	3	21-Sep-21	23-Sep-21	30-Nov-21 A	30-Nov-21 A			O2_CBW2460	
02_CBW2470 Submit Design Check Certificate to ER	3	24-Sep-21	26-Sep-21	30-Nov-21 A	30-Nov-21 A			_O2_CBW2470	
D2_CBW2480 ER Comment on the submitted CBWD Reception Bldg (R/F)	3	27-Sep-21	29-Sep-21	01-Dec-21	03-Dec-21	40		O2_CBW2480	
02_CBW2490 ER Consented CBWD Reception Bldg (R/F)	0		29-Sep-21		03-Dec-21	40		◆ 03-Dec-21	
4.2 - CBWD - DIGESTATE TANKS									
CHECKING & CERTIFICATION		40.1 51	44.0	40 1 611	01.5	-			
2_CBW2700 Submit further information for the submitted CBWD DIGESTATE TANKS	245	13-Jan-21	14-Sep-21	13-Jan-21 A	04-Dec-21	6		02_CBW2700	
2_CBW2710     IC Certify CBWD DIGESTATE TANKS       2_CBW2715     Obtain Design Check Certificate for CBWD DIGESTATE TANKS	14	15-Sep-21 29-Sep-21	28-Sep-21 01-Oct-21	05-Dec-21 19-Dec-21	18-Dec-21 21-Dec-21	0		O2_CBW2710 □ O2_CBW2710	15
PLOYER'S CONSENT	3	20-00p=21	01-0u-21	10-00-21	21-000-21	0		02_08W2/1	
2_CBW2630 Submit Design Check Certificate to ER	3	02-Oct-21	04-Oct-21	22-Dec-21	24-Dec-21	6		□ 02 CBM	V2630
2 CBW2635 ER Comment on the submitted CBWD DIGESTATE TANKS	3	05-Oct-21	07-Oct-21	25-Dec-21	27-Dec-21	6			
2_CBW2640 ER Consented CBWD DIGESTATE TANKS	0		07-Oct-21		27-Dec-21	6		◆ 27-D	
4.5 - CBWD - FLARE									
CHECKING & CERTIFICATION									
2_CBW2800 Submit further information for the submitted CBWD Flare	14	14-Sep-21	27-Sep-21	24-Aug-21 A	09-Nov-21 A		O2_CBW2800	4	
2_CBW2810 IC Certify CBWD Flare	14	28-Sep-21	11-Oct-21	10-Nov-21 A	17-Nov-21 A		O2_CBW2810		
2_CBW2815 Obtain Design Check Certificate for CBWD Flare	3	12-Oct-21	14-Oct-21	17-Nov-21 A	17-Nov-21 A		02 CBW281	<b>H</b>	
IPLOYER'S CONSENT								1	

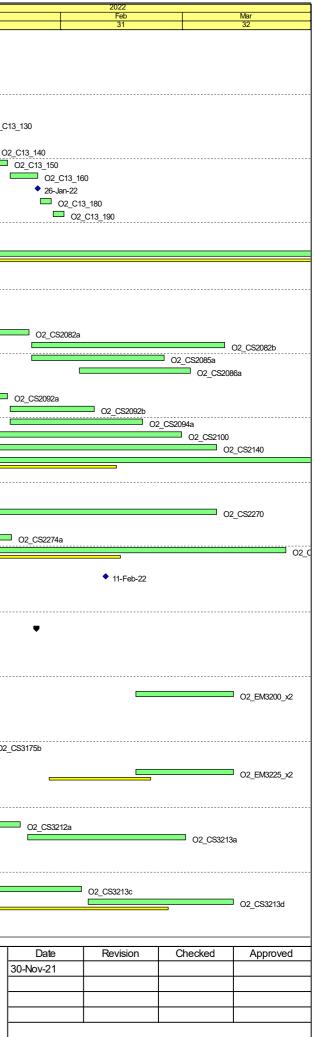


File Name: WP_04.2021-3M.11 R2c Layout: ORRC2_WP_2021_3M Task filter: TASK filters: 3MK, 3MN, 3MRP. Date Printed: 22-Dec-21

Pemaing Wok (2 Actual Wok Lawi of Elfort Pimary Baseline Baseline Milastone Stat Milastone Contract No. EP/SP/86/15 Organic Waste Treatment Facilities, Phase 2 Works Programme 3rd Issue 3-Months Rolling Programme

	2022 Feb		Mar
	Feb 31	O2_C510-A305	Mar 32
		O2_C510-A	3060
Date	Revision	Checked	Approved
30-Nov-21			
		1	

O2 CBW2730	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float	202 Nov 28	21 Dec 29	Jan 30
02_0BW2/30	Submit Design Check Certificate to ER (with MoC)	14	15-Oct-21	17-Oct-21	01-Dec-21	14-Dec-21	186	20	O2_CBW2730	
-	ER Comment on the submitted CBWD Flare	3	18-Oct-21	20-Oct-21	15-Dec-21	17-Dec-21	186		O2_CBW2735	
-	ER Consented CBWD Flare	0		20-Oct-21		17-Dec-21	186		17-Dec-21	
	ITE SERVICES WALKWAY									
C CHECKING & C O2 C13 110	C Comment on the DDS for Composite Services Wakway	14	15-Sep-21	28-Sep-21	07-Oct-21 A	19-Oct-21 A		2		
	Submit further information for the submitted DDS for Composite Services Walkway	7	29-Sep-21	05-Oct-21	20-Oct-21 A	30-Dec-21	3	J		O2 C13 120
	IC Certify DDS for Composite Services Wakway	14	06-Oct-21	19-Oct-21	31-Dec-21	13-Jan-22	3		1	02_013_120 02 C13
MPLOYER's CO	• • •									02_010
2_C13_140	Obtain Design Check Certificate for DDS for Composite Services Walkway	3	20-Oct-21	22-Oct-21	14-Jan-22	16-Jan-22	3			🗖 O2
02_C13_150	Submit Design Check Certificate to ER	3	23-Oct-21	25-Oct-21	17-Jan-22	19-Jan-22	3			
D2_C13_160	ER Comment on the submitted DDS for Composite Services Walkway	7	26-Oct-21	01-Nov-21	20-Jan-22	26-Jan-22	3	_		
2_C13_170	ER Consented DDS for Composite Services Wakway	0		01-Nov-21		26-Jan-22	3	♦		
	Submit Two Complete Sets DDS for Composite Services Walkway	3	02-Nov-21	04-Nov-21	27-Jan-22	29-Jan-22	3	_		
	Design Registered - DDS for Composite Services Wakway	3	05-Nov-21	07-Nov-21	30-Jan-22	01-Feb-22	3			
DTHER SUBMISS /II GRAPHIC DES	IGN & PROGRAMME DEVELOPMENT OF SCADA									
_	Programme Development & HMI Graphic Design of SCADA - 1st Draft	180	04-Oct-21	01-Apr-22	29-Dec-21	26-Jun-22	27			
<u> </u>	AND BUILDING WORKS									1 1 1
	NG (INCLUDING ADMINISTRATION BUILDING) PTION BUILDING @ GL SD-SJ/S1-S7 (INCLUDING VEHICLE WASHING AREA) (ZONE 1)									
	Ground slab and beams to +38.625mPD	32	09-Aug-21	14-Sep-21	09-Aug-21 A	22-Nov-21 A		02 662	)70a	
-	Remove scaffold to G/F and prepare underground tank for waterthigtness test	14	15-Sep-21	28-Sep-21	27-Nov-21 A	10-Dec-21	14		02_CS2080a	
-	Watertightness Test for Underground Tanks (External/Perimeter wall)	45	29-Sep-21	12-Nov-21	11-Dec-21	24-Jan-22	14			
CS2082b	Water tightness Test for Underground Tanks (Internal walls)	45	13-Nov-21	27-Dec-21	25-Jan-22	10-Mar-22	22			
CS2085a	Backfilling	24	13-Nov-21	10-Dec-21	25-Jan-22	24-Feb-22	9			
	Construct Tanker Bay Area & Bin Unloading Bay 5 / Refuse Chamber GF (SF-SH/S1-S2 & S6-S7)	22	22-Nov-21	16-Dec-21	05-Feb-22	02-Mar-22	9			<u> </u>
-	Columns, Wals and Roof (RF) to +47.075mPD (grid SD-SJ/S1-S7)	50	15-Sep-21	15-Nov-21	19-Nov-21 A	03-Jan-22	7			O2_CS2090
-	Watertightness Test for RF Roof	14	16-Nov-21	01-Dec-21	04-Jan-22	19-Jan-22	15		3	
-	Remove scaffold to RF	14	02-Dec-21	17-Dec-21	20-Jan-22	08-Feb-22	15			
	ABWF Works (Internal before E&M Works) Columns, Walls and Roof (UF) to +52.075mPD / +57.025mPD (grid SG-SJ/S1-S6)	24 61	02-Dec-21 11-Oct-21	31-Dec-21 21-Dec-21	20-Jan-22 13-Dec-21	19-Feb-22 28-Feb-22	15			a;
-	Columns, Wals&Roof (UF) at +46.725mPD (MCC Room / AC Room / FS Tank / SPR Tank / Pump Room)	51	01-Nov-21	31-Dec-21	05-Jan-22	08-Mar-22	7			
	ABWF Works (Internal before E&M Works)	99	07-Nov-21	13-Feb-22	10-Jan-22	18-Apr-22	14			
	IISTRATION BUILDING @ GL SA-SD/S2-S7 (INCLUDING STARCASE AREA) (ZONE 1)									1
_CS2250	Columns, Walls and Slab to +43.225mPD (G/F) (incl staricase area)	36	25-Aug-21	05-Oct-21	11-Aug-21 A	08-Nov-21 A		02_CS2250		
_CS2260	Columns, Wals and Slab to +47.075mPD (1/F) (ind staricase area)	36	06-Oct-21	16-Nov-21	09-Nov-21 A	13-Dec-21	70		O2_CS2260	
	Columns, Wals and Roof Slab to +51.575mPD (RF) / +55.525mPD (UF/TR) (ind staricase area)	50	17-Nov-21	13-Jan-22	10-Jan-22	08-Mar-22	53			
	Remove Formwork and Scaffold (@ +43.225mPD ind staricase area)	14	17-Nov-21	02-Dec-21	14-Dec-21	29-Dec-21	71			02_CS2272a
	Remove Formwork and Scaffold (@ +47.075mPD (RF) ind staricase area)	14	09-Dec-21	24-Dec-21	05-Jan-22	20-Jan-22	71			· · · · · · · · · · · · · · · · · · ·
CS2276a	Internal ABWF Works (GF & RF)	58	09-Dec-21	14-Feb-22	17-Jan-22	24-Mar-22	61			
	Zone 1 Ready for Handover to E&M Works (Waste Reception Building - GF)	0		21-Dec-21		11-Feb-22	15		<b>◊</b>	
	ION TANKS (4 AD Tanks)								·	
	ATION (FIRST 2 TANKS) (ZONE 2)							<u> </u>		
-	First AD Tank Ready for E&M Works	0	01-Dec-21		31-Dec-21		40	31-Dec-21	>	
-	Second AD Tank Ready for E&M Works	0	16-Dec-21		26-Jan-22		61		26-Jan-22 💊	
	DRKS FIRST TANK (DIGESTER 4)									
2_CS3170	4th Lift of Chamber Wall for Tanks (5m height)	20	11-Sen 21	22_0-+ 21	13-0-+ 21 ^	18-Nov 21 A				
-	5th Lift of Chamber Wall for Tanks (5m height)	28	11-Sep-21 23-Oct-21	22-Oct-21 30-Nov-21	13-Oct-21 A 19-Nov-21 A	18-Nov-21 A 18-Dec-21	40	02_CS3120	02 (\$31752	
2_CS3175a	5th Lift of Chamber Wall for Tanks (5m height) R DIGESTER 4	28 29	11-Sep-21 23-Oct-21	22-Oct-21 30-Nov-21	13-Oct-21 A 19-Nov-21 A	18-Nov-21 A 18-Dec-21	40	02_ <u>CS3D4</u>	02_CS3175a	
2_CS3175a &M WORKS FOR	R DIGESTER 4						40	02 (53)	02_CS3175a	
2_CS3175a M WORKS FOF 2_EM3200_x2		29	23-Oct-21	30-Nov-21	19-Nov-21 A	18-Dec-21	40	02_530	O2_CS3175a	
2_CS3175a &M WORKS FOR D2_EM3200_x2 DTANKS - RC WC	R DIGESTER 4 Install Heating Coils at High Level (Digester 4)	29	23-Oct-21	30-Nov-21	19-Nov-21 A	18-Dec-21	40	02_C\$3700 02_C\$3160a	O2_CS3175a	
2_CS3175a & WORKS FOR 2_EM3200_x2 TANKS - RC WC 2_CS3160a	R DIGESTER 4 Install Heating Coils at High Level (Digester 4) DRKS SECOND TANK (DIGESTER 2)	29	23-Oct-21 02-Dec-21	30-Nov-21 24-Dec-21	19-Nov-21 A 18-Feb-22	18-Dec-21 12-Mar-22	40 3 63		O2_CS3175a	
2_CS3175a &M WORKS FOR 22_EM3200_x2 TANKS - RC WC 2_CS3160a 2_CS3170a 2_CS3175b	R DIGESTER 4 Install Heating Coils at High Level (Digester 4) ORKS SECOND TANK (DIGESTER 2) 3rd Lift of Chamber Wall for Tanks (5m height) 4th Lift of Chamber Wall for Tanks (5m height) 5th Lift of Chamber Wall for Tanks (5m height)	29 20 33	23-Oct-21 02-Dec-21 19-Aug-21	30-Nov-21 24-Dec-21 27-Sep-21	19-Nov-21 A 18-Feb-22 19-Aug-21 A	18-Dec-21 12-Mar-22 30-Oct-21 A	40 3 63 63			02_0
2_CS3175a &M WORKS FOF D2_EM3200_x2 TANKS - RC WC 2_CS3160a 2_CS3170a 2_CS3175b &M WORKS FOF	BIGESTER 4 Install Heating Coils at High Level (Digester 4) ORKS SECOND TANK (DIGESTER 2) 3rd Lift of Chamber Wall for Tanks (5m height) 4th Lift of Chamber Wall for Tanks (5m height) 5th Lift of Chamber Wall for Tanks (5m height) R DIGESTER 2	29 20 33 30 33	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21 08-Nov-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21 15-Dec-21	19-Nov-21 A 18-Feb-22 19-Aug-21 A 01-Nov-21 A 06-Dec-21	18-Dec-21 12-Mar-22 30-Oct-21 A 04-Dec-21 15-Jan-22	63			02_0
2_CS3175a & WORKS FOF 2_EM3200_x2 TANKS - RC WC 2_CS3160a 2_CS3170a 2_CS3175b & WORKS FOF 2_EM3225_x2	BIGESTER 4 Install Heating Coils at High Level (Digester 4)      ORKS SECOND TANK (DIGESTER 2)      3rd Lift of Chamber Wall for Tanks (5m height)      4th Lift of Chamber Wall for Tanks (5m height)      5th Lift of Chamber Wall for Tanks (5m height)      BIGESTER 2 Install Heating Coils at High Level (Digester 2)	29 20 33 30	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21	19-Nov-21 A 18-Feb-22 19-Aug-21 A 01-Nov-21 A	18-Dec-21 12-Mar-22 30-Oct-21 A 04-Dec-21				02_0
2_CS3175a & WORKS FOF 2_EM3200_x2 TANKS - RC WC 2_CS3160a 2_CS3170a 2_CS3175b & WORKS FOF 2_EM3225_x2 TANKS - FOUND	BIGESTER 4 Install Heating Coils at High Level (Digester 4) ORKS SECOND TANK (DIGESTER 2) 3rd Lift of Chamber Wall for Tanks (5m height) 4th Lift of Chamber Wall for Tanks (5m height) 5th Lift of Chamber Wall for Tanks (5m height) R DIGESTER 2	29 20 33 30 33	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21 08-Nov-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21 15-Dec-21	19-Nov-21 A 18-Feb-22 19-Aug-21 A 01-Nov-21 A 06-Dec-21	18-Dec-21 12-Mar-22 30-Oct-21 A 04-Dec-21 15-Jan-22	63			02_0
2_CS3175a M WORKS FOF 2_EM3200_x2 TANKS - RC WC 2_CS3160a 2_CS3170a 2_CS3175b M WORKS FOF 2_EM3225_x2 TANKS - RC WC	BIGESTER 4  Install Heating Coils at High Level (Digester 4)  PKKS SECOND TANK (DIGESTER 2)  3rd Lift of Chamber Wall for Tanks (5m height)  4th Lift of Chamber Wall for Tanks (5m height) 5th Lift of Chamber Wall for Tanks (5m height) 5th Lift of Chamber Wall for Tanks (5m height)  8 DIGESTER 2  Install Heating Coils at High Level (Digester 2)  ATION & RC WORKS (REMAINING 2 TANKS) (ZONE 2)	29 20 33 30 33	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21 08-Nov-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21 15-Dec-21	19-Nov-21 A 18-Feb-22 19-Aug-21 A 01-Nov-21 A 06-Dec-21	18-Dec-21 12-Mar-22 30-Oct-21 A 04-Dec-21 15-Jan-22	63			
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22_CS3175a 32_CS3175a 32_EM3200_x2 32_CS3160a 32_CS3170a 32_CS3170a 32_CS3175b 32_CS3175b 32_CS3175b 32_CS32175b 32_CS3211a 32_CS3212a 32_CS3212a 32_CS3213a 32_CS3213a 32_CS3213a 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3212b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3212b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3212b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3213b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS3215b 32_CS325b 32_CS325b 32_CS325b 32_CS325b 32_CS325b 32_CS325	R DIGESTER 4         Install Heating Coils at High Level (Digester 4)         ORKS SECOND TANK (DIGESTER 2)         3rd Lift of Chamber Wall for Tanks (5m height)         4th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         7t DIGESTER 2         Install Heating Coils at High Level (Digester 2)         ATTON & RC WORKS (REMAINING 2 TANKS) (ZONE 2)         ORKS THIRD TANK (DIGESTER 3)         2nd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         Stress FOURTH TANK (DIGESTER 1)         2nd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wal	29 20 33 30 33 20 20 33 28 32 32 32 32 32 32 32 32 32 32 32 32 32	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21 08-Nov-21 08-Nov-21 08-Oct-21 16-Nov-21 15-Sep-21 27-Oct-21 04-Dec-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21 15-Dec-21 21-Feb-22 07-Oct-21 15-Nov-21 15-Nov-21 26-Oct-21 03-Dec-21 14-Jan-22 25-Feb-22	19-Nov-21A 18-Feb-22 19-Aug-21A 01-Nov-21A 06-Dec-21 18-Feb-22 18-Feb-22 18-Feb-22 24-Sep-21A 22-Dec-21 24-Jan-22 11-Sep-21A 01-Dec-21 24-Dec-21	18-Dec-21 12-Mar-22 30-Oct-21A 04-Dec-21 15-Jan-22 12-Mar-22 21-Dec-21 22-Jan-22 01-Mar-22 30-Nov-21A 23-Dec-21 05-Feb-22 12-Mar-22 31-Dec-21	63 51 30 30 30 30 64 64 64 64 44		O2_CS3170a O2_CS321 O2_CS3211b O2_CS3211b O2_CS32	11a 3212b
2_CS3175a & WORKS FOF 12_EM3200_x2 TANKS - RC WC 2_CS3160a 2_CS3170a 2_CS3170a 2_CS3175b & WORKS FOF 12_EM3225_x2 TANKS - FOUND TANKS - RC WC 2_CS3211a 2_CS3212a 2_CS3211b 2_CS3211b 2_CS3211b 2_CS3212b 2_CS3213c 2_CS3213c 2_CS3213d HOOVER FOR EN	R DIGESTER 4         Install Heating Coils at High Level (Digester 4)         PKKS SECOND TANK (DIGESTER 2)         3rd Lift of Chamber Wall for Tanks (5m height)         4th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         8th Lift of Chamber Wall for Tanks (5m height)         8th Lift of Chamber Wall for Tanks (5m height)         8th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m	29 20 33 30 33 20 20 33 28 32 32 32 32 32 32 32 32 32 32 32 32 32	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21 08-Nov-21 08-Nov-21 08-Oct-21 16-Nov-21 15-Sep-21 27-Oct-21 04-Dec-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21 15-Dec-21 21-Feb-22 07-Oct-21 15-Nov-21 15-Nov-21 26-Oct-21 03-Dec-21 14-Jan-22 25-Feb-22	19-Nov-21 A 18-Feb-22 19-Aug-21 A 01-Nov-21 A 06-Dec-21 18-Feb-22 18-Feb-22 24-Sep-21 A 22-Dec-21 24-Jan-22 11-Sep-21 A 01-Dec-21 24-Dec-21 24-Dec-21 07-Feb-22	18-Dec-21 12-Mar-22 30-Oct-21 A 04-Dec-21 15-Jan-22 12-Mar-22 21-Dec-21 22-Jan-22 01-Mar-22 30-Nov-21 A 23-Dec-21 05-Feb-22 12-Mar-22 31-Dec-21	63 51 30 30 30 30 64 64 64 64 64 64 64 64 64	02_CS3160a	O2_CS3170a 02_CS321 02_CS321 02_CS3211b 02_CS3211b 02_CS32 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b	3212b
CS3175a WORKS FOF 2_EM3200_x2 TANKS - RC WC CS3160a _CS3170a _CS3175b WWORKS FOF 2_EM3225_x2 ANKS - FOUND TANKS - RC WC _CS3211a _CS3212a _CS3212a _CS3213a TANKS - RC WC _CS3211b _CS3212b _CS3213c _CS3213c _CS3213d LO VER FOR EX	R DIGESTER 4         Install Heating Coils at High Level (Digester 4)         PKKS SECOND TANK (DIGESTER 2)         3rd Lift of Chamber Wall for Tanks (5m height)         4th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         8 DIGESTER 2         Install Heating Coils at High Level (Digester 2)         ATON & RC WORKS (REMAINING 2 TANKS) (20NE 2)         PKS STHIRD TANK (DIGESTER 3)         2nd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         9rKS FOURTH TANK (DIGESTER 1)         2nd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         3rd Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall fo	29 20 33 30 33 20 20 33 28 32 32 32 32 32 32 32 32 32 32 32 32 32	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21 08-Nov-21 08-Nov-21 08-Oct-21 16-Nov-21 15-Sep-21 27-Oct-21 04-Dec-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21 15-Dec-21 21-Feb-22 07-Oct-21 15-Nov-21 15-Nov-21 26-Oct-21 03-Dec-21 14-Jan-22 25-Feb-22	19-Nov-21 A 18-Feb-22 19-Aug-21 A 01-Nov-21 A 06-Dec-21 18-Feb-22 18-Feb-22 24-Sep-21 A 22-Dec-21 24-Jan-22 11-Sep-21 A 01-Dec-21 24-Dec-21 24-Dec-21 07-Feb-22	18-Dec-21 12-Mar-22 30-Oct-21 A 04-Dec-21 15-Jan-22 12-Mar-22 21-Dec-21 22-Jan-22 01-Mar-22 30-Nov-21 A 23-Dec-21 05-Feb-22 12-Mar-22 31-Dec-21 05-Feb-22 12-Mar-22	63 51 30 30 30 64 64 64 64 64 64 64 64 74 8 75 75 75 75 75 75 75 75 75 75 75 75 75	02_CS3160a 02_CS3160a Fract No. EP/SP/86/1 Parent Faciliti	O2_CS3170a O2_CS321 O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3211b O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_CS3210 O2_C	3212b
2_CS3175a & WORKS FOF D2_EM3200_x2 D TANKS - RC WC 2_CS3160a 2_CS3170a 2_CS3170a 2_CS3175b & WORKS FOF D2_EM3225_x2 TANKS - FOUND D TANKS - RC WC 2_CS3211a 2_CS3212a 2_CS3213a D TANKS - RC WC 2_CS3211b 2_CS3211b 2_CS3211b 2_CS3212b 2_CS3212b 2_CS3212c 2_CS3213c 2_CS3213c 2_CS3213c 2_CS3213c 2_CS3213c	R DIGESTER 4         Install Heating Coils at High Level (Digester 4)         PKKS SECOND TANK (DIGESTER 2)         3rd Lift of Chamber Wall for Tanks (5m height)         4th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         5th Lift of Chamber Wall for Tanks (5m height)         8th Lift of Chamber Wall for Tanks (5m height)         8th Lift of Chamber Wall for Tanks (5m height)         8th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m height)         9th Lift of Chamber Wall for Tanks (5m	29       20       33       30       33       20       20       33       20       33       20       33       28       32       33       20       33       20       33       20       33       20       33       20       33       20       33       20       32       30       0       PensiringWak (201a)       AdalWak	23-Oct-21 02-Dec-21 19-Aug-21 28-Sep-21 08-Nov-21 08-Nov-21 08-Oct-21 16-Nov-21 15-Sep-21 27-Oct-21 04-Dec-21	30-Nov-21 24-Dec-21 27-Sep-21 06-Nov-21 15-Dec-21 21-Feb-22 07-Oct-21 15-Nov-21 15-Nov-21 26-Oct-21 03-Dec-21 14-Jan-22 25-Feb-22	19-Nov-21 A 18-Feb-22 19-Aug-21 A 01-Nov-21 A 06-Dec-21 18-Feb-22 18-Feb-22 24-Sep-21 A 22-Dec-21 24-Jan-22 11-Sep-21 A 01-Dec-21 24-Dec-21 24-Dec-21 07-Feb-22	18-Dec-21 12-Mar-22 30-Oct-21 A 04-Dec-21 15-Jan-22 12-Mar-22 21-Dec-21 22-Jan-22 01-Mar-22 30-Nov-21 A 23-Dec-21 05-Feb-22 12-Mar-22 31-Dec-21 05-Feb-22 12-Mar-22 31-Dec-21	63 51 30 30 30 30 64 64 64 64 64 64 64 64 64 64 64 64 64	02_CS3160a	02_CS3170a 02_CS321 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS3211b 02_CS321 02_CS3211b 02_CS321 02_CS3211b 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS321 02_CS32	11a 3212b



O2_CS3400b BIOGAS STORAGE	Zone 2 Ready for Handover to E&M Works (Second AD Tanks) TANKS, DIGESTATE TANK & PUMP ROOM	Duration 0	Date	Date			Float	Nov 28	Dec 29	Jan 30
-		0								
DICCAUCICICACE				16-Dec-21		26-Jan-22	70		<b>♦</b>	
DIGESTATE TANK										
O2_CS3620a	1st Lift of Chamber Wall for Tanks (4m height)	20	22-Oct-21	13-Nov-21	03-Jan-22	25-Jan-22	5			
O2_CS3621a	2nd Lift of Chamber Wal for Tanks (4m height)	20	15-Nov-21	07-Dec-21	26-Jan-22	21-Feb-22	5			
02_CS3622a	3rd Lift of Chamber Wall for Tanks (4m height)	20	08-Dec-21	03-Jan-22	22-Feb-22	16-Mar-22	5			-
PUMP HOUSE (ZOI O2_CS3710	Foul Drainage Connections & G/F Slab	12	16-Nov-21	29-Nov-21	27-Jan-22	12-Feb-22	22			
02_000710 02 CS3710a	Columns, Walsand Sab (M/F & 1/F)	40	30-Nov-21	18-Jan-22	14-Feb-22	31-Mar-22	22			
BOUNDARYWALL										
O2_CS3840	Backfilling	30	02-Aug-21	11-Sep-21	01-Dec-21	07-Jan-22	177		[	O2_CS3840
	ILDING & FACILITIES									
O2_CS4200	TE WATER TREATMENT PLANT & GRANULATION HALL (GL NA-NI/N1-N7) (ZONE 4 & 5) Ground Floor Slab & Beams at +38.575mPD (GF)	34	23-Aug-21	30-Sep-21	09-Sep-21 A	26-Nov-21 A			CS4200	
O2_CS4202a	Remove scaffold (ground floor slab & beams at +38.575mPD)	14	02-Oct-21	19-Oct-21	29-Nov-21 A	16-Dec-21	16		O2 CS4202a	
 O2_CS4204a	Watertightness Test for Underground Tanks (External/Perimeter wall)	38	15-Sep-21	22-Oct-21	01-Dec-21	07-Jan-22	0			02_CS4204a
O2_CS4204b	Watertightness Test for Underground Tanks (Internal walls)	34	23-Oct-21	25-Nov-21	08-Jan-22	10-Feb-22	0			
O2_CS4206a	Backfilling along GLNA-NIN1-N9 (ind removal of GFRP soil nails)	45	23-Oct-21	14-Dec-21	08-Jan-22	04-Mar-22	0			
O2_CS4220 O2_CS4220a	Column, Wal and Roof Slab to +47.775mPD (RF) Remove scaffold (UF)	45 14	02-Oct-21 25-Nov-21	24-Nov-21 10-Dec-21	25-Oct-21 A 04-Jan-22	03-Jan-22 19-Jan-22	23 23			02_CS4220
02_CS4225a	Water tightness Test for Roofs	7	11-Dec-21	18-Dec-21	20-Jan-22	27-Jan-22	23			
O2_CS4230	Column, Wal and Roof Slab to +57.570mPD (UF) at GLNA-NF/N1-N7	27	30-Oct-21	30-Nov-21	15-Dec-21	18-Jan-22	17			02
O2_CS4230a	Remove scaffold (UF)	14	01-Dec-21	16-Dec-21	11-Feb-22	26-Feb-22	0			
O2_CS4245a	External ABWF Works	116	01-Dec-21	14-Apr-22	23-Feb-22	07-Jul-22	0			
C WORKS - PLA O2_CS4105a	NT ROOMS & CHP AREAS (GL NA-NI/N7-N10) (ZONE 3) Excavation/Trimming works for CHP area footprint	14	29-Oct-21	13-Nov-21	14-Jan-22	29-Jan-22	0			
O2_CS4105a	Installation of Earth Mat	14	15-Nov-21	30-Nov-21	31-Jan-22	15-Feb-22	0			
 O2_CS4110	Raft Footing/Base Slab to +38.575mPD (GL NA~NI / N7~N10)	30	01-Dec-21	04-Jan-22	16-Feb-22	22-Mar-22	0			_
WEIGHBRIDGES &	GUARD HOUSE									
O2_CS5000	Excavation	18	22-Oct-21	11-Nov-21	07-Feb-22	26-Feb-22	12			
FOOTBRIDGE / WA		20	15 Can 01	22 Oct 21	07 Oct 21 A	27 Oct 21 A		0.005504		
O2_CS5504 O2_CS5506	Footbridge/Walkway- Per/Column Stage 1 Footbridge/Walkway- Backfiling to Formation Level	30 20	15-Sep-21 23-Oct-21	22-Oct-21 15-Nov-21	07-Oct-21 A 28-Oct-21 A	27-Oct-21 A 03-Nov-21 A		2_CS5504		
O2_CS5508	Footbridge/Walkway- Offsite Fabrication of Bridge Decking + UU Work at Portion 3	50	16-Nov-21	15-Jan-22	17-Jan-22	18-Mar-22	22	0/		
SITEWIDE UNDER	GROUND UTILITIES, SEWERAGE & DRAINAGE WORKS									
O2_CS6610	Portion 1 (@ Road 2)	67	01-Sep-21	20-Nov-21	01-Dec-21	23-Feb-22	8			
O2_CS6611	Portion 2 (@ Road 2)	67	22-Nov-21	14-Feb-22	17-Jan-22	08-Apr-22	46			
O2_CS6612 O2_CS6616	Portion 3 (@ Road 1 & 2) Portion 6 (@ Road 4)	45 72	22-Nov-21 22-Nov-21	15-Jan-22 19-Feb-22	24-Feb-22 24-Feb-22	21-Apr-22 25-May-22	04 8			
EXTERNAL WORK		12	221110721	10 T GD ZE	ETT GD EE	20 May 22	0			
O2_CS6050	Biogas Blower & Condensate Chamber	48	11-Dec-21	11-Feb-22	11-Dec-21	11-Feb-22	122			
O2_CS6060	Standby Flare slab (ind. mini-piling)	536	16-Dec-19	04-Dec-21	16-Dec-19 A	31-Jan-22	132			
O2_CS6110	Geotechnical Works (slope stabilization etc.)	204	24-May-21	15-Jan-22	24-May-21 A	14-Mar-22	215			
O2 D9000	Procurement, Fabrication & Delivery of Pre-treatment Equipment (Summary of C52-P1280 to C53-P3200)	182	31-Aug-21	20-Apr-22	08-Aug-21 A	31-May-22	54			
O2_D9005a	Procurement, Fabrication & Delivery of Waking Floor System (Summary of C52-P1200 to C52-P1260)	185	16-Jun-21	17-Dec-21	16-Jun-21 A	04-Jan-22	98			
O2_D9010a	Procurement, Fabrication & Delivery of Hammermills & Containments Press (Summary of C53-P5200 & C53-P4200)	172	01-Aug-21	19-Jan-22	15-Jul-21 A	22-Mar-22	58		C	
O2_D9020	Procurement, Fabrication & Delivery of Heating Coils for Digesters	180	13-Sep-21	11-Mar-22	18-Dec-21	15-Jun-22	66			
O2_D9021a O2_D9023a	Procurement, Fabrication & Delivery of Anaerobic Digestion Equipment (Summary of C54-P1200 to C54-P1220) Procurement, Fabrication & Delivery of Gas Holders, Conditioning Plant & Asso. Equipment (C54-P2200 & C54-P2220)	308	08-Jul-21	11-May-22	08-Jul-21 A	22-Jul-22 12-Oct-22	420 338			
O2_D9025a	Produrement, Fabrication & Delivery of Gas Houses, Conducting Plant & Asso. Equipment (C34-F2220 & C34-F2220) Produrement, Fabrication & Delivery of Flare	422 210	08-Jun-21 14-Oct-21	03-Aug-22 11-May-22	16-Aug-21 A 25-Dec-21	22-Jul-22	14			
O2_D9030	Procurement & Fabrication of CHP Units	326	27-May-21	17-Apr-22	27-May-21 A	28-Feb-22	86			
O2_D9040	FAT of CHP Units	20	03-Apr-22	17-Apr-22	09-Feb-22	28-Feb-22	86			
O2_D9060a	Procurement, Fabrication & Delivery of Granulation Equipment (Summary of C57-P1200 to C57-P7210)	262	14-Sep-21	27-May-22	04-Nov-21 A	12-Aug-22	399			
O2_D9080	Procurement, Fabrication & Delivery of Centralized Air Pollution Control Equipment	210	18-Sep-21	15-Apr-22	04-Oct-21 A	28-Jun-22	3		· · · · · · · · · · · · · · · · · · ·	
O2_D9100 O2_D9130	Procurement, Fabrication & Delivery of Wastewater Treatment Equipment Procurement & Fabrication of HV Transformers	220 180	10-Sep-21 17-Sep-21	17-Apr-22 15-Mar-22	04-Oct-21 A 01-Nov-21 A	08-Jul-22 29-May-22	21			
O2_D9160	Procurement, Fabrication & Delivery of HV Switchboards	180	17-0cp-21 17-0ct-21	14-Apr-22	04-Oct-21A	29-May-22	51			
O2_D9170	Procurement & Fabrication of LV Switchboards & MCC	180	17-Sep-21	15-Mar-22	04-Oct-21 A	29-May-22	56			
O2_D9200a	Procurement & Fabrication of SCADA System & Asso. Control Panels / Consoles	230	30-Sep-21	17-May-22	01-Nov-21 A	10-Jul-22	39			
O2_D9250	Procurement, Fabrication & Delivery of Odour Control Ducts	150	08-Sep-21	04-Feb-22	01-Nov-21 A	29-Apr-22	5			
O2_D9260 O2_D9270	Procurement, Fabrication & Delivery of Control and Instrumentation Procurement, Fabrication & Delivery of Lifting Beams / Monorail Crane	210 165	31-Aug-21 21-Aug-21	28-Mar-22 01-Feb-22	15-Nov-21 A 01-Nov-21 A	10-Jun-22 14-May-22	21 26			
O2_D9280	Procurement, Fabrication & Delivery of P/D Equipment / Material	210	21-Aug-21 25-Sep-21	22-May-22	01-Nov-21 A 08-Nov-21 A	14-10/ay-22 12-Jul-22	20			
O2_D9300	Procurement, Fabrication & Delivery of Cooling Tower / Chillers	300	27-Aug-21	22-Jun-22	01-Nov-21 A	27-Aug-22	10			
O2_D9320	Procurement, Fabrication & Delivery of AHU & Other MVAC Equipment	240	26-Oct-21	22-Jun-22	31-Dec-21	27-Aug-22	18			
O2_D9330a	Procurement, Fabrication & Delivery of Electrical Equipment /. Material	210	18-Aug-21	14-Apr-22	04-Oct-21 A	28-Jun-22	3			
O2_D9340 O2_D9360	Procurement, Fabrication & Delivery of ELV, ACS & CCTV Procurement, Fabrication & Delivery of Lifts	210 180	26-Sep-21 03-Sep-21	23-May-22 31-Mar-22	01-Dec-21 09-Dec-21	28-Jun-22 06-Jun-22	38			
O2_D9380 O2_D9380	Procurement, Fabrication & Delivery of Litis Procurement, Fabrication & Delivery of FS Equipment	240	20-Sep-21	31-Mar-22 17-May-22	09-Dec-21 04-Dec-21	31-Jul-22	14			
O2_D9400	Procurement, Fabrication & Delivery of Vehicle Washing Plant	240	27-Oct-21	23-Jun-22	01-Dec-21	28-Jul-22	43			
	File Name: WP_04.2021-3M.11 R2c         Layout: ORRC2_WP_2021_3M         Task filter: TASK filters: 3MK, 3MN, 3MRP.         Date Printed: 22-Dec-21         Page 13 of 14				0	rganic V W	Vaste orks	ract No. EP/SP/86/ e Treatment Facilit Programme 3rd Is hs Rolling Program	ies, Phase 2 ssue	30

	2022 Feb		Mar
	31		32
26-Jan-22			
O2_CS3620a			
		O2_CS3621a	
	ſ		O2_CS3622a
	02_CS371	0	
	O2_CS4204b		
	_	02_CS	4206a
02 024000			
02_CS4220a	25a		
O2_CS4230			
		O2_CS4230a	
02_CS	4105a		
	02_CS	64105b	
			02_CS4
		O2_CS5000	
			O2_CS5508
			02_00000
		O2_CS6610	
	O2_CS6050		
02_0	256060		O2_CS6110
			02_000110
Date	Revision	Checked	Approved
30-Nov-21			
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vity ID	Activity Name	Original Duration	Baseline Start Date	Baseline Finish Date	Start	Finish	Total Float		2021 Dec	Jan
								28	29	30
O2_D9420	Procurement, Fabrication & Delivery of Weightbridge	180	27-Oct-21	24-Apr-22	01-Dec-21	29-May-22	93			1
O2_D9430	Procurement, Fabrication & Delivery of Surplus Energy Export System	240	24-Oct-21	20-Jun-22	03-Dec-21	30-Jul-22	34			
O2_D9450	Procurement, Fabrication & Delivery of Chemical Storage & Dosing System	180	10-Sep-21	08-Mar-22	01-Dec-21	29-May-22	22			
O2_D9490	Procurement, Fabrication & Delivery of Composite Services Walkway	90	09-Oct-21	06-Jan-22	03-Jan-22	02-Apr-22	3			
O2_D9500	Procurement, Fabrication & Delivery of Gensets	150	22-Aug-21	17-Feb-22	01-Dec-21	29-Apr-22	3			-
E & M INSTALLAT	TION WORKS									
O2_EM0020	Installation of Earth Mat - Granulation Bldg (before base slab)	430	17-Jul-20	30-Nov-21	17-Jul-20 A	15-Feb-22	0			-
O2_EM0030	Installation of Conseal Conduits	122	11-Aug-21	13-Jan-22	11-Aug-21 A	08-Mar-22	53			1
SITE ACCESS D	ATES FOR E&MINSTALLATION									
O2_EMA1000	Handover to E&M Works, Zone 1 - Waste Reception / Pretreatment (GF)	0		21-Dec-21		11-Feb-22	15		<u>ہ</u>	1
O2_EMA2000	Handover to E&M Works, Zone 2 - Anaerobic Digestion Tank (First AD Tanks)	0		01-Dec-21		31-Dec-21	44	$\mathbf{>}$	•	31-Dec-21
O2_EMA2000a	Handover to E&M Works, Zone 2 - Anaerobic Digestion Tank (Second AD Tanks)	0		16-Dec-21		26-Jan-22	70		•	
O2_EMA2060	Handover to E&M Works, Zone 2 - Biogas Storage Tanks Area	0		02-Aug-21		27-Dec-21*	115		• 27	-Dec-21*
ZONE 1 - WASTE	E RECEPTION BUILDING AREA									
O2_EM1000	Install Walking Floor System	75	24-Dec-21	21-Mar-22	16-Feb-22	13-May-22	15			
O2_EM1260	BS Installation for Waste Reception Area - 1st Fix	120	21-Dec-21	09-May-22	12-Feb-22	01-Jul-22	18			
STATUTORY INSI	PECTION (FSD, WA, EMSD)									
NGI - EMSD										
O2_EM8520	Application for Construction Approval of NGI - Gas Holder (Form 104)	372	03-Aug-20	09-Aug-21	03-Aug-20 A	09-Dec-21	152		O2 EM8520	
PLUMBING - WS	SD									
O2_EM8600	Submission of WWO46 Pt I & II (A/C Water Supply)	0	05-Oct-21		24-Dec-21		8		•	
O2_EM8700	Submission of WWO46 Pt I & II (FS)	0	25-Sep-21		15-Dec-21		20		•	
O2_EM8710	Submission of WWO46 Pt I & II (Plumbing)	0	25-Sep-21		15-Dec-21		20		•	
ENVIRONMENT	AL PROTECTION - EPD									
O2_EM8930	EPD Submission & Approval for Air Pollution Control - Genset (Clause 24.13, Specs A)	240	05-Sep-21	02-May-22	01-Dec-21	28-Jul-22	8			
O2 EM8940	EPD Submission & Approval for Air Pollution Control - CHP & Flare (Clause 2.4.13, Specs A)	240	30-Oct-21	26-Jun-22	01-Dec-21	28-Jul-22	111			



File Name: WP_04.2021-3M.11 R2c Layout: ORRC2_WP_2021_3M Task filter: TASK filters: 3MK, 3MN, 3MRP. Date Printed: 22-Dec-21



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

	0000		
	2022 Feb		Mar
	31		32
	◆ 11-Feb-22		
	· II-red-22		
26-Jan-22			
Date	Revision	Checked	Approved
30-Nov-21			



Appendix E

**Event and Action Plan** 



### **Event and Action Plan for Construction Noise**

Event	Action			
	ЕТ	IEC	ER	Contractor
Action Level Exceedance	ET 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	<ol> <li>Review the investigation results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>Advise the ER on the effectiveness of the proposed</li> </ol>	<b>ER</b> 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	Contractor 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level Exceedance	frequency to check mitigation effectiveness. 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.	remedial measures. 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;	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes exceedance until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>



Appendix F

### Impact Monitoring Schedule of the Reporting Period and Coming Month

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

AUES

### **Impact Monitoring Schedule for reporting period – December 2022**

#### Remark:

Public Holiday or Sunday

✓ Impact noise monitoring in normal working days (Monday to Saturday) 07:00 – 19:00 except public holiday # Additional weekly impact monitoring during restricted hours including public holidays and Sundays



#### Impact Monitoring Schedule for coming month – January 2023

Da	te	Noise Monitoring (L _{eq} 30min)
Sun	1-Jan-23	
Mon	2-Jan-23	
Tue	3-Jan-23	
Wed	4-Jan-23	
Thu	5-Jan-23	$\checkmark$
Fri	6-Jan-23	
Sat	7-Jan-23	
Sun	8-Jan-23	
Mon	9-Jan-23	
Tue	10-Jan-23	
Wed	11-Jan-23	$\checkmark$
Thu	12-Jan-23	
Fri	13-Jan-23	
Sat	14-Jan-23	
Sun	15-Jan-23	
Mon	16-Jan-23	
Tue	17-Jan-23	$\checkmark$
Wed	18-Jan-23	
Thu	19-Jan-23	
Fri	20-Jan-23	
Sat	21-Jan-23	
Sun	22-Jan-23	
Mon	23-Jan-23	
Tue	24-Jan-23	
Wed	25-Jan-23	
Thu	26-Jan-23	$\checkmark$
Fri	27-Jan-23	
Sat	28-Jan-23	
Sun	29-Jan-23	
Mon	30-Jan-23	
Tue	31-Jan-23	$\checkmark$

#### Remark:

Public Holiday or Sunday

✓ Impact noise monitoring in normal working days (Monday to Saturday) 07:00 – 19:00 except public holiday



## Appendix G

## **Calibration Certificates of Equipment**



Sun Creation Engineering Limited

**Calibration & Testing Laboratory** 

# Certificate of Calibration 校正證書

Certificate No. : C224779 證書編號

ITEM TESTED / 送檢]	項目	(Job No./序引編號: IC22-1539)	Date of Receipt / 收件日期: 4 August 2022
Description / 儀器名稱		Sound Level Calibrator (EQ085)	
Manufacturer / 製造商	:	Rion	
Model No./型號	:	NC-73	
Serial No. / 編號	:	10655561	
Supplied By / 委託者	:	Action-United Environmental Services an	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ling,
		35-41 Tai Lin Pai Road, Kwai Chung, N.	Τ.
	-	N & Am 201	

#### TEST CONDITIONS / 測試條件

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

#### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 August 2022

#### TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed manufacturer's specification & user's specified acceptance criteria.

The results are detailed in the subsequent page(s).

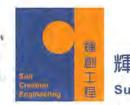
The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	: H T Wong Assistant Engin	eer		
Certified By 核證	: K C Lee Engineer	Date of Issue 簽發日期	÷	23 August 2022

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。局部復印本證書需先獲本實驗所書而批准。



Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No.: C224779 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	C223647
CL281	Multifunction Acoustic Calibrator	AV210017
TST150A	Measuring Amplifier	C221750

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0,5	± 0.2

#### 5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	User's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.953	1 kHz ± 6 %	± 1

Remarks : - The user's specified acceptance criteria (user's spec.) is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

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

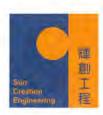
Note :

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.

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。

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 taboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No.: C221365 證書編號

evel Meter (EQ018)
15
Inited Environmental Services and Consulting
20/F., Gold King Industrial Building,
ai Lin Pai Road, Kwai Chung, N.T.

#### TEST CONDITIONS / 測試條件

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

#### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 12 March 2022

#### 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
- Fluke Everett Service Center, USA
- Agilent Technologies / Keysight Technologies

Tested By 測試	K Q Lee Engineer		
Certified By 核證	: <u>ihm Um C</u> H C Chan Engineer	Date of Issue : 簽發日期	: 16 March 2022

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. : C221365 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	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

UUT Setting			Applied Value		UUT	IEC 61672	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	LA	A	Fast	94.00	1	94.0	± 1.1

#### 6.1.2 Linearity

	UUT Setting				Applied Value		
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
30 - 130	LA	A	Fast	94.00	1	94.0 (Ref.)	
		11 2 2 2 2 2 2		104.00		104.0	
10 march 1		and the second second		114.00		114.0	

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

#### 6.2 Time Weighting

UUT Setting			Applied Value		UUT	IEC 61672	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	LA	A	Fast	94.00	1	94.0	Ref.
			Slow			94.0	± 0.3

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,

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.



Certificate No.: C221365 證書編號

#### 6.3 Frequency Weighting

#### 6.3.1 A-Weighting

	UUT	Setting		Appl	Applied Value		IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130 L _A	A	Fast	94.00	63 Hz	67.8	$-26.2 \pm 1.5$	
					125 Hz	77.9	$-16.1 \pm 1.5$
					250 Hz 85.4	$-8.6 \pm 1.4$	
				500 Hz	90.8	$-3.2 \pm 1.4$	
				1 kHz 94.0	94.0	Ref.	
					2 kHz	95.0	$+1.2 \pm 1.6$
					4 kHz 94.7 +1	$\pm 1.0 \pm 1.6$	
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					16 kHz	85.5	-6.6 (+3.5 ; -17.0)

#### 6.3.2 C-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130 L _C	C	Fast	94.00	63 Hz	93.2	$-0.8 \pm 1.5$	
				125 Hz	93.9	$-0.2 \pm 1.5$	
				250 Hz	94.0	$0.0 \pm 1.4$	
					500 Hz	94.1	$0.0 \pm 1.4$
					1 kHz	94.0	Ref.
					2 kHz	93.6	$-0.2 \pm 1.6$
					4 kHz	92.9	$-0.8 \pm 1.6$
				8 kHz	91.0	-3.0 (+2.1 ; -3.1)	
					16 kHz	83.5	-8.5 (+3.5 ; -17.0)

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。



Certificate No. : C221365 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 16463

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB : 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
	1 kHz	$\pm 0.20 \text{ dB}$
	2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
	8 kHz	$\pm 0.45 \text{ dB}$
	16 kHz	$\pm 0.70 \text{ dB}$
	104 dB: 1 kHz	$\pm 0.10 \text{ dB}$ (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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Certificate No. : C226781 證書編號

ITEM TESTED / 送檢項	目員	(Job No. / 序引編號:IC22-2282)	Date of Receipt / 收件日期: 8 November 2022
Description / 儀器名稱	:	Sound Level Meter (EQ016)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52	
Serial No. / 編號	:	00464681	
Supplied By / 委託者	:	Action-United Environmental Services a	and Consulting
		Unit A, 20/F., Gold King Industrial Buil	lding,
		35-41 Tai Lin Pai Road, Kwai Chung, N	J.T.

#### TEST CONDITIONS / 測試條件

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

#### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 19 November 2022

#### 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
- Agilent Technologies / Keysight Technologies

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- Fluke Everett Service Center, USA

Tested By 測試

H T Wong

K C Lee Engineer

Assistant Engineer

Certified By 核證

Date of Issue 簽發日期 :

21 November 2022

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 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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No. : C226781 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	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

	UUT Setting					UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	1	93.6	$\pm 1.1$

#### 6.1.2 Linearity

	UU	Г Setting	Applie	d Value	UUT	
Range	Function	Frequency Time		Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	А	Fast	94.00	1	93.6 (Ref.)
				104.00		103.5
				114.00		113.5

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

#### 6.2 Time Weighting

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

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#### 6.3 Frequency Weighting

#### 6.3.1 A-Weighting

		Setting		Appl	ied Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	63 Hz	67.3	$-26.2 \pm 1.5$
					125 Hz	77.4	$-16.1 \pm 1.5$
					250 Hz	84.9	$-8.6 \pm 1.4$
					500 Hz	90.3	$-3.2 \pm 1.4$
					1 kHz	93.6	Ref.
					2 kHz	94.8	$+1.2 \pm 1.6$
					4 kHz	94.6	$+1.0 \pm 1.6$
					8 kHz	92.5	-1.1 (+2.1 ; -3.1)
					16 kHz	85.6	-6.6 (+3.5 ; -17.0)

#### 6.3.2 C-Weighting

		Setting		Appli	ed Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	C	Fast	94.00	63 Hz	92.7	$\textbf{-0.8} \pm 1.5$
					125 Hz	93.4	$-0.2 \pm 1.5$
					250 Hz	93.6	$0.0 \pm 1.4$
					500 Hz	93.6	$0.0 \pm 1.4$
					1 kHz	93.6	Ref.
					2 kHz	93.4	$-0.2 \pm 1.6$
					4 kHz	92.8	$-0.8 \pm 1.6$
					8 kHz	90.6	-3.0 (+2.1 ; -3.1)
					16 kHz	83.7	-8.5 (+3.5 ; -17.0)

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Certificate No. : C226781 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 17434

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB : 63 Hz - 125 Hz 250 Hz - 500 Hz 1 kHz 2 kHz - 4 kHz 8 kHz 16 kHz 104 dB : 1 kHz	: ± 0.20 dB : ± 0.35 dB : ± 0.45 dB : ± 0.70 dB : ± 0.10 dB (Ref. 94 dB)
		· · · · · · · · · · · · · · · · · · ·
	114 dB : 1 kHz	$\pm 0.10 \text{ dB} (\text{Ref. 94 dB})$

- 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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## Appendix H

### **Database of Monitoring Results**



Daytime No	ise Mea	asuren	ent Re	sults (dl	B) of N	1															
	Stant	1st	Leq (5)	min)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	nin)	5th	Leq (51	min)	6th	Leq (51	min)	L ag 20min	Facade
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Correction
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	Correction
9-Dec-22	13:00	57.7	51.2	48.2	49.5	50.3	48.5	50.3	51.3	48.7	50.2	51.0	48.6	50.0	50.2	48.1	49.8	51.0	48.3	52.6	55.6
15-Dec-22	9:30	64.4	56.9	47.9	58.8	56.7	46.7	54.5	56.8	48.7	54.7	57.9	51.2	55.9	56.6	47.2	63.1	58.5	49.9	60.4	63.4
21-Dec-22	13:00	54.4	53.5	46.3	58.5	62.2	45.2	60.8	64.2	52.3	55.9	61.3	48.8	57.7	61.7	49.3	54.4	58.2	48.4	57.6	60.6
30-Dec-22	13:23	54.4	57.4	46.7	53.6	57.3	46.2	53.1	57.0	45.3	50.7	54.3	45.2	52.0	56.0	45.6	52.8	56.6	45.9	52.9	55.9

Daytime No	ise Me	asurem	ent Re	sults (dH	B) of N2	2a															
	Start	1st	Leq (5	min)	2nd	Leq (5	min)	3rd	Leq (5)	min)	4th	Leq (51	min)	5th	Leq (5)	min)	6th	Leq (51	min)	Log20min	Distance &
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Façade
	1 mile	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	Correction
9-Dec-22	13:33	60.6	66.2	47.4	57.8	60.9	45.5	58.9	60.7	48.2	58.0	60.8	49.2	59.6	61.0	47.7	58.8	60.2	45.5	59.1	63.1
15-Dec-22	10:02	47.0	49.6	40.9	46.7	47.2	41.1	46.6	47.2	39.8	45.1	45.8	41.0	44.7	49.0	43.2	45.9	51.0	42.8	46.1	50.1
21-Dec-22	13:32	55.1	55.2	47.3	54.5	55.8	47.4	52.2	55.3	47.4	53.6	55.2	46.9	52.8	54.9	47.3	55.1	57.2	49.0	54.0	58.0
30-Dec-22	13:55	55.3	55.8	44.6	55.7	57.2	42.0	58.6	58.9	42.1	50.7	53.3	42.3	49.5	51.0	42.2	50.3	52.7	42.7	54.6	58.6

Daytime No	ise Me	asurem	ent Re	sults (dI	B) of N3	3a															
	Stant	1st	Leq (5	min)	2nd	Leq (5	min)	3rd	Leq (5)	min)	4th	Leq (51	min)	5th	Leq (51	min)	6th	Leq (51	min)	Log20min	Distance &
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Façade
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	Correction
9-Dec-22	14:45	62.6	66.3	50.7	63.8	67.7	51.1	59.6	58.7	49.9	57.7	58.8	53.3	57.5	58.5	53.5	58.6	61.0	54.0	60.7	66.7
15-Dec-22	11:12	63.4	70.2	56.8	55.2	58.7	53.2	55.9	58.2	52.7	56.2	58.4	53.6	57.4	58.8	54.9	61.1	62.7	55.0	59.3	65.3
21-Dec-22	14:42	71.2	55.3	53.1	54.7	55.8	52.9	54.6	55.2	52.8	54.1	55.5	52.9	53.9	54.7	52.8	55.6	58.7	52.9	63.9	69.9
30-Dec-22	15:05	63.4	62.2	52.9	60.7	63.3	51.9	60.5	64.2	53.0	56.7	61.7	50.9	64.7	63.3	50.8	60.9	64.0	50.7	61.8	67.8

Daytime No	ise Me	asurem	ent Re	sults (dF	B) of N4	1															
	C4am4	1st	Leq (5	min)	2nd	Leq (5)	min)	3rd	Leq (5	min)	4th	Leq (5)	min)	5th	Leq (5)	min)	6th	Leq (5)	min)	T. a. a. 20!	Distance &
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Façade
	1 mie	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	Correction
9-Dec-22	14:08	56.8	59.2	47.6	66.2	71.1	47.9	68.9	70.2	48.7	64.2	67.2	51.3	63.2	67.0	50.9	64.9	68.1	51.0	65.3	68.3
15-Dec-22	10:37	67.3	62.0	46.2	62.2	59.0	46.2	57.2	58.1	47.7	55.3	57.4	45.2	54.9	55.2	44.8	51.2	49.0	43.0	61.4	64.4
21-Dec-22	14:06	54.6	57.8	48.7	53.3	57.5	48.6	53.8	57.6	47.9	51.3	55.4	46.6	52.7	56.3	46.8	53.3	57.2	47.6	53.3	56.3
30-Dec-22	14:28	56.6	55.2	52.6	53.3	55.1	52.5	53.6	54.9	52.8	54.2	55.7	52.9	53.5	54.3	52.9	54.7	56.9	52.8	54.5	57.5



Additional N	Noise Me	asurement Results during Restricted 1	Hours (dB) of N1		
D (	Start		Leq (5min)		Distance & Façade
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Correction
2-Dec-22	20:21	44.0	46.6	40.9	47.0
4-Dec-22	9:59	48.2	49.0	39.0	51.2
8-Dec-22	20:08	45.1	47.7	42.0	48.1
11-Dec-22	10:15	50.4	53.0	46.5	53.4
15-Dec-22	19:54	51.2	55.7	44.3	54.2
18-Dec-22	10:15	48.6	52.0	46.0	51.6
21-Dec-22	20:08	50.0	51.9	47.4	53.0
25-Dec-22	9:54	54.5	58.0	39.0	57.5
29-Dec-22	19:54	51.4	54.6	48.6	54.4

Additional I	Noise Mea	asurement Results during Restricted	Hours (dB) of N2a		
	Start		Leq (5min)		Distance & Façade
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Correction
2-Dec-22	19:59	47.1	49.1	38.5	51.1
4-Dec-22	9:29	43.7	47.0	37.0	47.7
8-Dec-22	19:44	47.5	49.4	38.7	51.5
11-Dec-22	9:30	49.3	57.0	43.5	53.3
15-Dec-22	19:32	44.5	48.3	39.9	48.5
18-Dec-22	9:30	48.6	50.5	42.5	52.6
21-Dec-22	19:34	41.1	44.2	36.7	45.1
25-Dec-22	9:23	45.0	46.5	36.0	49.0
29-Dec-22	19:27	50.4	51.6	47.6	54.4



Additional N	Noise Mea	asurement Results during Restricted H	lours (dB) of N3a		
<b>D</b> (	Start		Leq (5min)		Distance & Façade
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Correction
2-Dec-22	20:49	42.0	44.1	36.9	48.0
4-Dec-22	10:51	48.2	49.0	38.5	54.2
8-Dec-22	20:36	44.3	46.4	39.2	50.3
11-Dec-22	10:39	51.5	54.5	46.0	57.5
15-Dec-22	20:26	52.7	54.6	43.8	58.7
18-Dec-22	10:16	50.8	53.0	46.0	56.8
21-Dec-22	20:37	47.7	50.6	41.1	53.7
25-Dec-22	10:14	50.0	47.5	36.0	56.0
29-Dec-22	20:26	50.6	52.7	43.7	56.6

Additional I	Noise Me	asurement Results during Restricted	Hours (dB) of N4		
	Start		Leq (5min)		
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Façade Correction
2-Dec-22	19:32	40.1	42.9	36.0	43.1
4-Dec-22	10:31	46.4	48.5	39.0	49.4
8-Dec-22	19:22	41.7	44.5	37.6	44.7
11-Dec-22	9:51	46.7	56.7	41.5	49.7
15-Dec-22	19:10	47.9	51.4	38.7	50.9
18-Dec-22	10:38	46.2	48.0	43.0	49.2
21-Dec-22	19:10	49.2	50.9	40.9	52.2
25-Dec-22	10:45	51.7	49.5	37.5	54.7
29-Dec-22	19:05	50.1	55.3	44.8	53.1

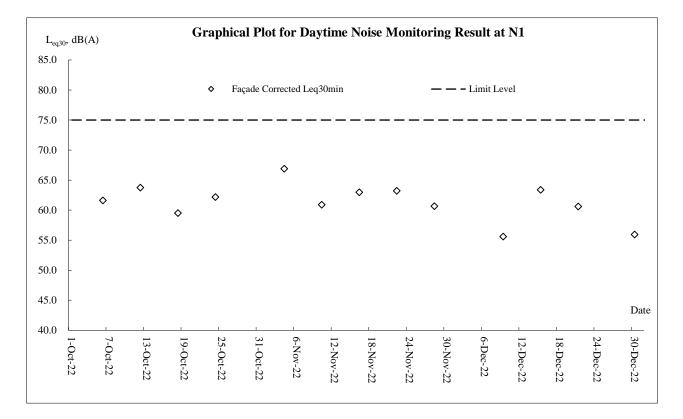


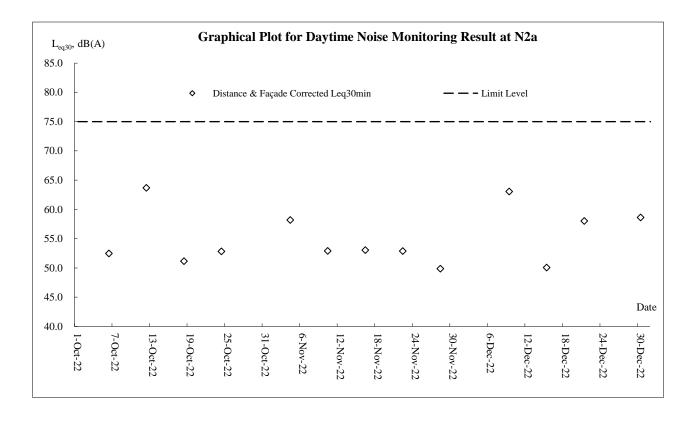
## Appendix I

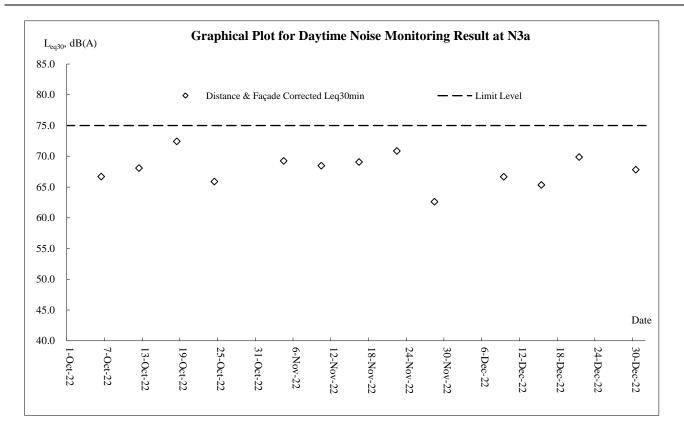
### **Graphical Plots of Monitoring Results**



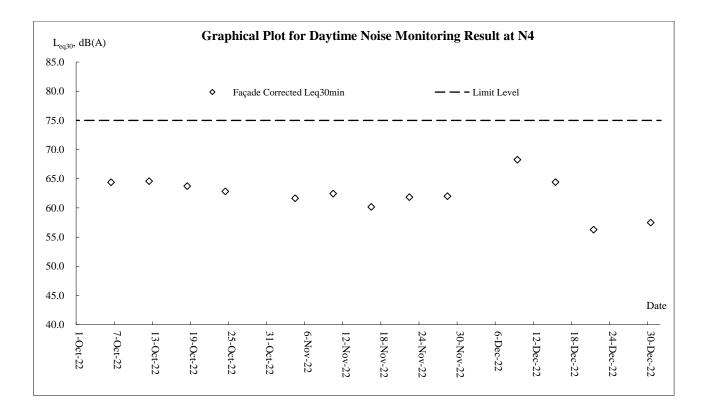
### **Construction Noise - Daytime**





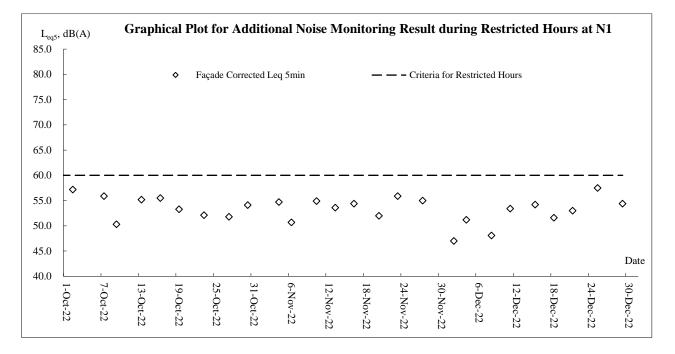


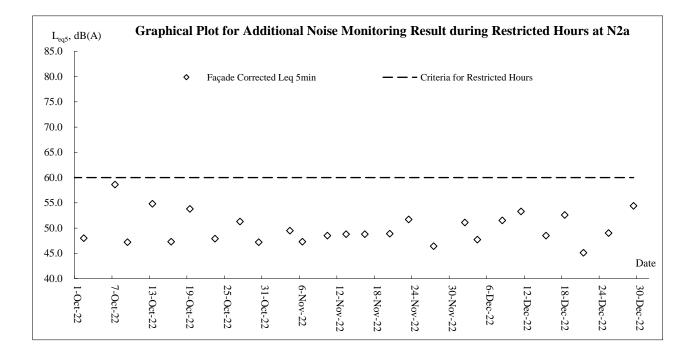
AUES

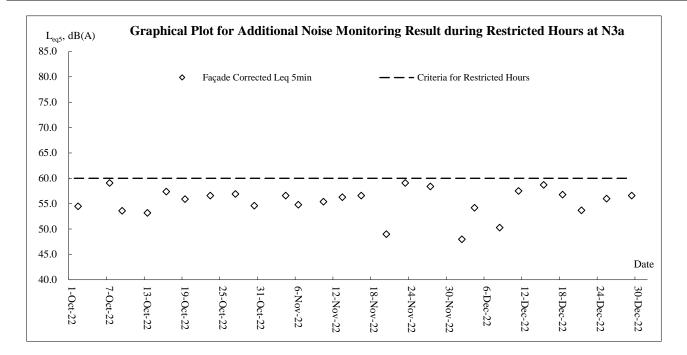




#### **Construction Noise – Restricted Hours**

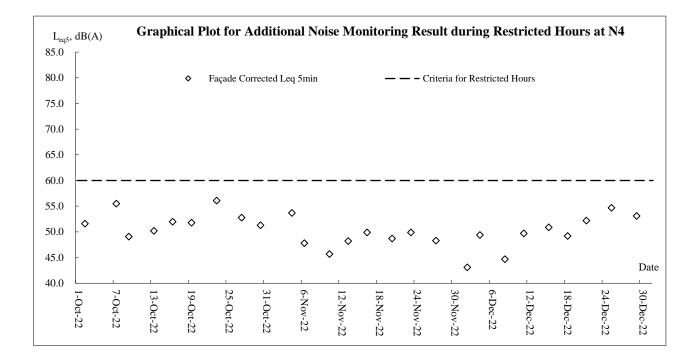






JES

Δυ





Appendix J

Waste Flow Table

#### Monthly Summary Waste Flow Table for December 2022

#### Version: 0

	Actu	al Quantities	s of Inert Co	&D Materials	Generated	Monthly	Actua	l Quantity of	f C&D Wast	es Generated	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete		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 2021	89.338	0.000	0.000	83.508	5.597	0.233	337.486	1.250	0.700	0.000	1.644
Jan-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.139
Feb-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.079
Mar-22	0.285	0.000	0.000	0.000	0.285	0.000	0.000	0.000	0.000	0.000	0.166
Apr-22	1.961	0.000	0.000	0.000	1.961	0.000	0.000	0.000	0.000	0.000	0.175
May-22	0.612	0.000	0.000	0.000	0.612	0.000	0.000	0.000	0.000	0.000	0.148
Jun-22	1.294	0.000	0.000	0.000	1.294	0.000	0.000	0.000	0.000	0.000	0.133
Sub total (since 2019)	93.490	0.000	0.000	83.508	9.749	0.233	337.486	1.250	0.700	0.000	2.484
Jul-22	0.992	0.000	0.000	0.000	0.992	0.000	0.000	0.000	0.000	0.000	0.178
Aug-22	0.582	0.000	0.000	0.000	0.582	0.000	0.000	0.000	0.000	0.000	0.159
Sep-22	1.296	0.000	0.000	0.000	1.296	0.000	0.000	0.000	0.000	0.000	0.197
Oct-22	0.642	0.000	0.000	0.000	0.642	0.000	0.000	0.000	0.000	0.000	0.211
Nov-22	0.206	0.000	0.000	0.000	0.206	0.000	0.000	0.000	0.000	0.000	0.128
Dec-22	1.193	0.000	0.000	0.000	1.193	0.000	0.000	0.000	0.000	0.000	0.140
Total (since 2019)	98.401	0.000	0.000	83.508	14.660	0.233	337.486	1.250	0.700	0.000	3.497

Note 1	The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site
2	Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
3	The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m3.
4	All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
5	Conversion factors for reporting purpose:
	in-situ: $rock = 2.5 tonnes/m^3$ ; $soil = 2.0 tonnes/m^3$
	excavated: $rock = 2.0 tonnes/m^3$ ; soil = 1.8 tonnes/m ³ ; broken concrete and bitumen = 2.4 tonnes/m ³
	C&D Waste (including tree waste) = $0.9$ tonnes/m ³ ; bentonite slurry = $2.8$ tonnes/m ³
6	Numbers are rounded off to the nearest three decimal places
7	The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"
8	The "Hard Rock and Large Broken Concrete" were disposed as public fill
9	The amount in "Disposed as Public Fill" includes the "Hard Rock and Large Broken Concrete" disposed as public fill
10	The "Reused in other projects" include C&D inert material and hard rock and large broken concrete



## Appendix K

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

					Imp	lementa	ation S	tage ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
Air Qua	lity 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	<ul> <li>Best Practice For Dust Control</li> <li>The relevant best practices for dust control as stipulated in the <i>Air Pollution Control (construction Dust) Regulation</i> should be adopted to further reduce the construction dust impacts of the Project. These best practices include:</li> <li><i>Good Site Management</i></li> <li>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 carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.</li> </ul>	Within construction site / Duration of the construction phase	Contractor		~			EIA Recommendation and Air Pollution Control (Construction Dust) Regulation
		<ul> <li>Disturbed Parts of the Roads</li> <li>Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or</li> <li>Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road</li> </ul>							

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EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
	•	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							
		<ul> <li>All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.</li> </ul>							
		Debris Handling							
		<ul> <li>Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides.</li> </ul>							
		<ul> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> </ul>							
		Transport of Dusty Materials							
		<ul> <li>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.</li> </ul>							
		Wheel washing							
		<ul> <li>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.</li> </ul>							
		Use of vehicles							
		<ul> <li>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.</li> </ul>							
		<ul> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>							
		<ul> <li>Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely</li> </ul>							



					Impl	ementa	tion St	age ¹	
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		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 Qual	ity 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	CHP and odour treatment unit	Design Consultant / OWTF Operator	~		~		EIA Recommendatio
		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.							
		<ul> <li>The preliminary design incorporates a combination of thermal and catalytic treatment processes to remove pollutants from the exhaust gasses from the CHP.</li> </ul>							
		<ul> <li>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.</li> </ul>							

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EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
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:	During design and operation phases	Design Consultant / OWTF Operator	~		~		EIAO & EIAO TM Annex 4
		<ul> <li>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.</li> </ul>							
		<ul> <li>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.</li> </ul>							
		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.							
		<ul> <li>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.</li> </ul>							
		<ul> <li>Safety markings and crash barriers will be provided to the aboveground piping, digesters and the gas holder near the entrance.</li> </ul>							
		<ul> <li>Lightning protection installations will be installed following IEC 62305, BS EN 62305, AS/NZS 1768, NFPA 780 or equivalent standards.</li> </ul>							
		<ul> <li>A 10m high boundary wall with fire resistance will be</li> </ul>							



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EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	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.							
		<ul> <li>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.</li> </ul>							
Noise I	mpact (Con	struction)						•	•
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:	Within construction site / During construction phase	Contractor		~			EIAO, EIAO-TM and Noise Contro Ordinance
		<ul> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>							
		<ul> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;</li> </ul>							
		<ul> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> </ul>							
		<ul> <li>mobile plant should be sited as far away from NSRs as possible; and</li> </ul>							
		<ul> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site</li> </ul>							



					Imp	lementa	ation St	age ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	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 <i>Noise Control on Construction and Open</i> <i>Sites, BS 5228: Part 1: 2009</i> . 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 Ir	npact (Ope	ration)			-	-	-	-	
5.9.2	4.2.7	<ul> <li>Fixed Plant Noise</li> <li>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:</li> <li>Choose quieter plant such as those which have been effectively silenced;</li> </ul>	Within construction site / During operation phase / Throughout operation phase	Design Consultant / Contractor	~		~	-	EIAO, EIAO-TM and Noise Control Ordinance



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EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
		<ul> <li>Include noise levels specification when ordering new plant (including chillier and E/M equipment);</li> </ul>				•		•	
		<ul> <li>Locate fixed plant/louver away from any NSRs as far as practicable;</li> </ul>							
		<ul> <li>Locate fixed plant in walled plant rooms or in specially designed enclosures;</li> </ul>							
		<ul> <li>Locate noisy machines in a completely separate building;</li> </ul>							
		<ul> <li>Install direct noise mitigation measures including silencers, acoustic louvers and acoustic enclosure where necessary; and</li> </ul>							
		<ul> <li>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.</li> </ul>							
Water Q	uality Impa	act (Construction)	•	•	•				•
6.8.1.1	5.3	Construction site runoff	Within construction site /	Contractor		~	•		ProPECC Note
		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:	Duration of the construction phase						PN 1/94
		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;							
		<ul> <li>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</li> </ul>							

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EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
		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.							
		<ul> <li>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.</li> </ul>							
		<ul> <li>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</li> </ul>							



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EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	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	Within construction site /	Contractor	•	$\checkmark$	•	•	ProPECC Note
		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.	During construction phase						PN 1/94
6.8.1.3	5.3	Excavation works	Within construction site /	Contractor		$\checkmark$			ProPECC Note
		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.	During construction phase						PN 1/94
6.8.1.4	5.3	Accidental spillage	Within construction site /	Contractor		~	•	•	ProPECC Note
		The Contractor should register as a chemical waste producer	During construction phase						PN 1/94 and Waste Disposa



					Imple	menta	tion St	age ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	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.							Ordinance
		<ul> <li>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.</li> </ul>							
		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:							
		<ul> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> </ul>							
		<ul> <li>Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> </ul>							
		<ul> <li>Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>							
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

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EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
		responsible for appropriate disposal and maintenance.							-
Water Q	uality Impa	act (Operation)			-	-	-	-	-
6.8.2.1	5.3	Sewage effluent and sewerage impact	Within construction site /	Design Consultant	$\checkmark$		$\checkmark$		EIA
		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.	During design and operation phase	/ OWTF Operator					recommendatior
6.8.2.2	5.3	Wastewater generation from organic waste treatment processes	During design and / ( ater operation phase as ase /TF	Design Consultant / OWTF Operator	$\checkmark$	•	$\checkmark$	•	TM-DSS, Water Pollution Control
		Wastewater must be collected and diverted to the wastewater treatment plant (WWTP).		7 OW IF Operator					Ordinance
		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							
		<ul> <li>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.</li> </ul>							
		Dewatering of the digestate from the separators							
		<ul> <li>The wastewater generated from the dewatering of digestate from the digesters is expected to be around 229.18 m³/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.</li> </ul>							



	•				Imple	ementa	tion St	age ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
		Condensate from biogas drying, odour treatment and ventilation system							
		<ul> <li>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.</li> </ul>							
		Washing of waste delivery trucks							
		<ul> <li>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.</li> </ul>							
		Untreated wastewater from wastewater treatment plant							
		<ul> <li>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.</li> </ul>							
		Leakage of materials from WWTP							
		<ul> <li>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.</li> </ul>							
6.8.2.3	5.3	Contaminated stormwater runoff and accidental spillages	Within construction site /	OWTF Operator			$\checkmark$		TM-DSS; Water
		Regular maintenance of plant facilities, as recommended in <b>Section 6.8.2.2</b> 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.	During operation phase / Throughout operation phase						Pollution Contro Ordinance
Waste M	lanagemen	t Implications (Construction)							
7.6.1.1	6.3	Good Site Practices	Project construction site /	Contractor		$\checkmark$			Waste Disposal
		Recommendations for good site practices during the construction activities include:	Throughout construction stage / Until completion						Ordinance; Regulation and
		<ul> <li>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);</li> </ul>	of all construction activities						the Land (Miscellaneous Provisions) Ordinance;



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

					Implementation Stage ¹				
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
		<ul> <li>excavated materials should be reused on-site as fill material as backfilling material and for landscaping works far as practicable. Other mitigation requirements are:</li> <li>A Waste Management Plan (WMP), which becomes part of the Environmental Management Plan (EMP), should be</li> </ul>	of all construction activities						Circular (Works) No.6/2010 for Trip Ticket System for Disposal of Construction &
		<ul> <li>prepared in accordance with ETWB TC(W) No.19/2005;</li> <li>A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) should be adopted for easy tracking; and</li> </ul>							Demolition Materials; Technical Circular (Works) No. 19/2005
		<ul> <li>In order to monitor the disposal of excavated and non-inert C&amp;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).</li> </ul>							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



					Imp	lementa	tion St	tage ¹		
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines	
	· ·			-					Regulation	
Waste N	lanagemen	t Implications (Operation)								
7.6.2.1	6.3	Good site practices	Construction site / On a	OWTF Operator			$\checkmark$		Waste Disposal	
		Adoption of the following good operational practices should be recommended to minimise waste management impacts:	regular basis / Throughout operation stage						Ordinance; Waste Disposal	
		<ul> <li>Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the Waste</li> </ul>	Slage						(Chemical Wast (General);	
		Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation and the Land (Miscellaneous Provision) Ordinance (Cap. 28);	5						Regulation and the Land (Miscellaneous	
		<ul> <li>Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective</li> </ul>							Provision) Ordinance;	
		disposal to an appropriate facility of all wastes generated at the site;	it						DEVB Technica Circular (Works	
		<ul> <li>Use of a waste haulier licensed to collect specific category of waste;</li> </ul>							No. 6/2010.	
		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.								
		<ul> <li>Training of site personnel in proper waste management and chemical waste handling procedures;</li> </ul>								
		<ul> <li>Separation of chemical wastes for special handling and appropriate treatment at a licensed facility;</li> </ul>								
		<ul> <li>Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> </ul>								
		<ul> <li>Provision of sufficient waste disposal points and regular collection for disposal;</li> </ul>								
		<ul> <li>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,</li> </ul>								
		Implementation of a recording system for the amount of								



					Imp	lementa	ation S	tage ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
	•	wastes generated, recycled and disposed of (including the disposal sites).							
7.6.2.2	6.3	Waste reduction measures	Construction site / On a	OWTF Operator			$\checkmark$		Waste Disposal
		Adoption of the following good operational practices should be recommended to ensure waste reduction:	regular basis / Throughout operation						Ordinance; Waste Disposal
		<ul> <li>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;</li> </ul>	stage						(Chemical Waste) (General); Regulation and
		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							the Land (Miscellaneous Provision) Ordinance
		<ul> <li>Any unused chemicals or those with remaining functional capacity should be reused as far as practicable.</li> </ul>							
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	<ul> <li>Chemical Waste</li> <li>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.</li> </ul>	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



					Imp	lementa	tion St	age ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
		<ul> <li>Plant / equipment maintenance schedules should be planned in order to minimise the generation of chemical waste.</li> </ul>				•	-		
		<ul> <li>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.</li> </ul>							
		<ul> <li>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.</li> </ul>							
7.6.2.5	6.3	General Refuse	Construction site / On a	OWTF Operator			$\checkmark$		Waste Disposal
		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.	regular basis / Throughout operation stage						Ordinance
		<ul> <li>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.</li> </ul>							
Ecologio	al 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 <i>Aquilaria sinensis</i> 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



					Imp	lementa	ation St	tage ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	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 <i>Aquilaria sinensis</i> 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						
Ecologi	cal Impact (	(Operation)						•	•
	•	No mitigation measure is required.	•	•				•	•
Landsca	ape and Vis	ual Impact (Construction)							
Table 10.7 (CP1)	Table 8.1 (CP1)	<b>Preservation of Existing Vegetation</b> 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 Circula (Works) No. 3/2006
Table 10.7	Table 8.1	Control of site construction activities  Storage of materials should be carefully arranged to	Construction site / Throughout construction	Contractor	$\checkmark$	$\checkmark$			EIAO-TM



					Imp	lementa	ation St	tage ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	Dec	Relevant Legislation & Guidelines
		<ul> <li>The location and appearance of site accommodation should be carefully designed to minimise potential landscape and visual impact.</li> </ul>	of all construction activities						
		<ul> <li>Site lighting should be carefully designed to prevent light spillage,</li> </ul>							
		<ul> <li>Extent of the works area and construction period should be minimised as far as practicable.</li> </ul>							
		<ul> <li>Screen hoarding with compatible design to blend into the surrounding natural environmental should be considered.</li> </ul>							
		<ul> <li>Temporary works areas should be reinstated at the earliest possible opportunity.</li> </ul>							
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 Circula (Works) No. 3/2006
Landsca	pe and Vis	ual 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	Construction site / During design stage	Design Consultant / OWTF Operator	~				EIAO-TM
		<ul> <li>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.</li> </ul>							
		<ul> <li>Building massing – the proposed use of simple responsive design includes having specific height profile requirement</li> </ul>							

				,	Imp	lementa			
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	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.							
		<ul> <li>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.</li> </ul>							
		<ul> <li>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.</li> </ul>							
		<ul> <li>Responsive lighting design – Aesthetic design of architectural and lighting with following glare design measures:</li> </ul>							
		<ul> <li>Directional and full cut off lighting is recommended within the boundaries of OWTF to minimise light spillage to the surroundings;</li> </ul>							
		<ul> <li>Minimise geographical spread of lighting, only applying for safety at the key access points and staircases; and</li> </ul>							
		Limited lighting intensity to meet the minimum safety and operation requirement.							
Table	Table	Amenity / Compensatory Planting	Construction site / during	Design Consultant	<b>~</b>		· 🗸		Technical Circular
10.8 (OP2)	8.2 (OP2)	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	design and operation stage	/ OWTF Operator					(Works) Nos. 7/2002 and 3/2006



	·				Impl	lementa	tion St	age ¹	
EIA Ref.	EM&A Ref.	Environmental Protection Measures	Location / Duration of measures / Timing of completion of measures	Implementation Agent	Des	Con	Ор	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 <i>Celtis sinensis</i> and <i>Liquidambar formosana</i> . 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 bern 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 <i>Mallotus paniculatus</i> ,	Construction site / during design and operation stage	Design Consultant / OWTF Operator	~		V		GEO Publication No. 1/2011 "Technical Guidelines on Landscape Treatment for Slopes
Table 10.8 (OP4)	Table 8.2 (OP4)	Broussonetia papyrifera and Alangium chinense. 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