香港電燈有限公司 The Hongkong Electric Co., Ltd.



Re-provision of Open Cycle Gas Turbines at Lamma Power Station

Decommissioning/ Demolition & Construction Phases

Monthly Environmental Monitoring & Audit Report

December 2022

香港電燈有限公司 The Hongkong Electric Co., Ltd.



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMIT NO. EP-600/2022

RE-PROVISION OF OPEN CYCLE GAS TURBINES AT LAMMA POWER STATION

Title	Monthly EM&A Report (December 2022)
Date	13 January 2023
Certified by	(Mr. Kenneth Fung, Environmental Team Leader)
Verified by	Mr. Y. W. Fung (AECOM Asia Company Limited, Independent Environmental Checker)

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EXECUTIVE SUMMARY

In April 2022, an Environmental Permit (EP-600/2022) was granted to the Hongkong Electric Co., Ltd. (HK Electric) for the decommissioning/ demolition, construction and operation of the Project entitled "Re-provision of Open Cycle Gas Turbines at Lamma Power Station". This report, prepared by the Environmental Team, presents the Environmental Monitoring and Audit (EM&A) findings for the Project in December 2022 and is the 6th Monthly EM&A Report for the decommissioning/ demolition and construction phases of the Project.

Key Construction Activities Undertaken

The construction activities undertaken in the reporting month are as follows:

- Trenching works and installation of trench covers;
- Diversion of power supply;
- GTAB plant equipment demolition; and
- Assembly and load test of crawler crane.

Environmental Monitoring

According to the EM&A Manual, no environmental monitoring was necessary in view of the anticipated insignificant environmental impact.

Site Environmental Audit and Implementation of Mitigation Measure

EPD officials from Regional Office (South) visited Lamma Power Station on 1/12/2022. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 23/12/2022. The site conditions were generally satisfactory.

Weekly site audits were carried out to monitor environmental issues on the construction site. The site conditions were generally satisfactory. All recommended environmental mitigation measures were properly implemented. No environmental non-compliance was recorded in the reporting month.

Environmental Licensing and Permitting

License/Permit	Ref. No.	Valid P	eriod	Authority/Holder	Date Issued
		From	То		
Environmental Permit	EP-600/2022	01/04/2022	-	EPD / HK Electric	01/04/2022
Waste Disposal Billing Account	Account No.: 7044319	27/06/2022	-	EPD / Civil Contractor	27/06/2022
Registration of Chemical Waste Producer	5213-912- P2781-22	22/02/2016	-	EPD / Civil Contractor	22/02/2016
EPD Notification (Dust) Construction, Air Pollution Control (Construction Dust) Regulation	481782	07/07/2022	-	EPD / Civil Contractor	07/07/2022

License/Permit	Ref. No.	Valid Period		Authority/Holder	Date Issued
		From	То		
Construction Noise Permit	GW-RS1132- 22	30/12/2022	26/6/2023	EPD / Civil Contractor	28/12/2022
Waste Disposal Billing Account	Account No.: 7045179	28/09/2022	-	EPD / E&M Contractor	28/09/2022
Registration of Chemical Waste Producer	5517-912- K2931-02	05/12/2022	-	EPD / E&M Contractor	05/12/2022

Environmental Complaints / Summons/ Prosecutions

No complaint in relation to the environmental impact of the construction activities was received in the reporting month. There was also no notification of summon and successful prosecution for breaches of relevant environmental legislations received in the reporting month.

Future Key Issues

The construction activities scheduled for the coming month are mainly trenching works, hoarding erection, civil modification works for existing GT6, site hoarding temporary lighting setup, demolition of ducting, discharge of oil and equipment demolition for E&M works.

The future key issues to be considered in the coming month are as follows:

- Relevant environmental legislations should be observed.
- Relevant environmental licenses/permits should be obtained, if required.
- Required environmental mitigation measures should be properly implemented.
- Good site practices should be adopted to minimize environmental impacts.
- Dust suppression measures should be implemented for the construction activities.
- Works conducted during restricted hours should comply with the valid CNP.
- Wastewater from site facilities should be properly collected and stored within the site area.
- Generation of waste should be minimized.
- Waste generated should be properly stored and disposed of.

Reporting Changes

There was no reporting change in the reporting month.

Concluding Remarks

The environmental performance of the Project was generally satisfactory.

1. INTRODUCTION

1.1 Background

In April 2022, an Environmental Permit (EP-600/2022) was granted to HK Electric for the decommissioning/ demolition, construction and operation of the Project entitled "Re-provision of Open Cycle Gas Turbines at Lamma Power Station". An Environmental Team was then formed to implement the Environmental Monitoring and Audit (EM&A) programme in accordance with the EM&A Manual for the Project.

The key components of the Project are outlined as follows:

- Decommissioning and demolition of four oil-fired open cycle gas turbine units (GT2, GT3, GT4 and GT6) and one gas-fired combined cycle gas turbine unit (GT57), and auxiliary equipment including the black start gas turbine (BSGT), the miscellaneous storage shed, and the lube oil storage tank near GT5;
- Construction of four new oil-fired open cycle gas turbine units (GT8, GT9, GT 10 and GT11), and installation of the new BSGT and Battery Energy Storage System (BESS);
- Construction of new cable trenches, staircase and lift, and reconstruction of the GT57 Auxiliary Building (GTAB) to a new 132kV Switching Station; and
- Operation of four new oil-fired open cycle gas turbine units (GT8, GT9, GT10 and GT11).

The EM&A programme was commenced on 1 July 2022. This is the 6th monthly EM&A report which summarizes the environmental monitoring and audit work for the Project for the month of December 2022.

1.2 **Project Organization**

The management structure to oversee the Project includes the following:

- Project Proponent (HK Electric);
- Environmental Protection Department (EPD);
- Independent Environmental Checker (IEC);
- Environmental Team (ET); and
- Contractor.

The project organisation chart for the EM&A programme is shown in Appendix A.

1.3 Key Construction Works Undertaken during the Reporting Month

The Project area is shown in Figure 1.1, and the tentative decommissioning and construction phasing schedule is shown in Figure 1.2.

The locations of air, noise and water sensitive receivers are shown in Figure 1.3, Figure 1.4 and Figure 1.5 respectively.

The main construction activities carried out during the reporting month and the corresponding environmental mitigation measures are summarized in Table 1.1. The implementation status of the major mitigation measures in the reporting month can be found in Appendix C.

 Table 1.1
 Construction Activities and Corresponding Environmental Mitigation Measures

Item	Activities	Environmental Mitigation Measures
Civil V	Works - General	
1.	Trenching works and installation of trench covers	 Air All regulated machine attached with valid exception/ approval NRMM labels. Water spraying for concrete breaking works. Excavated material stockpile will be temporary covered with canvas or transferred to temporary storage location for backfill later.
		 Noise Noise emission label was provided for air compressor. Works conducted during restricted hours should comply with the valid CNP.
		 Wastewater No wastewater is required to be discharged at this moment. Sand bag barriers was set up as preventive measures.
		 Waste Management Excavated material was temporary stored for backfilling later. Scrape metal will be recycled. Chemical waste should be collected by licensed collector.
E&M	Works - General	
2.	Diversion of power supply	<i>Air</i> – No impact to the quality of air for this works.
		Noise - No works will be conducted during restricted hours at this moment.
		Wastewater – No wastewater is required to be discharged.
		Waste Management – Electrical wire will be recycled.
3.	GTAB plant equipment demolition	<i>Air</i> - Fence off the working area to avoid dust emission.
		Noise - No works will be conducted during restricted hours at this moment.
		Wastewater – No wastewater is required to be discharged.
		Waste Management – Scrap metal will be recycled.

Item	Activities	Environmental Mitigation Measures
4.	Assembly and load test of crawler crane	Air – All regulated machine attached with valid exception/ approval NRMM labels.
		Noise - No works will be conducted during restricted hours at this moment.
		Wastewater – No wastewater is required to be discharged.
		Waste Management No waste will be generated.

1.4 Summary of EM&A Requirements

Impact Monitoring

According to the EM&A Manual, no routine impact monitoring for air quality, noise and water quality is necessary in view of the anticipated insignificant environmental impact.

Environmental Audit

Regular environmental audits on air quality, noise, water quality, waste management, and land contamination are required. Details of the audits are summarized in Section 2 of this report.

Report on complaints, notification of summons and successful prosecutions are given in Section 3 of this report.

Future key issues are given in Section 4 of this report.

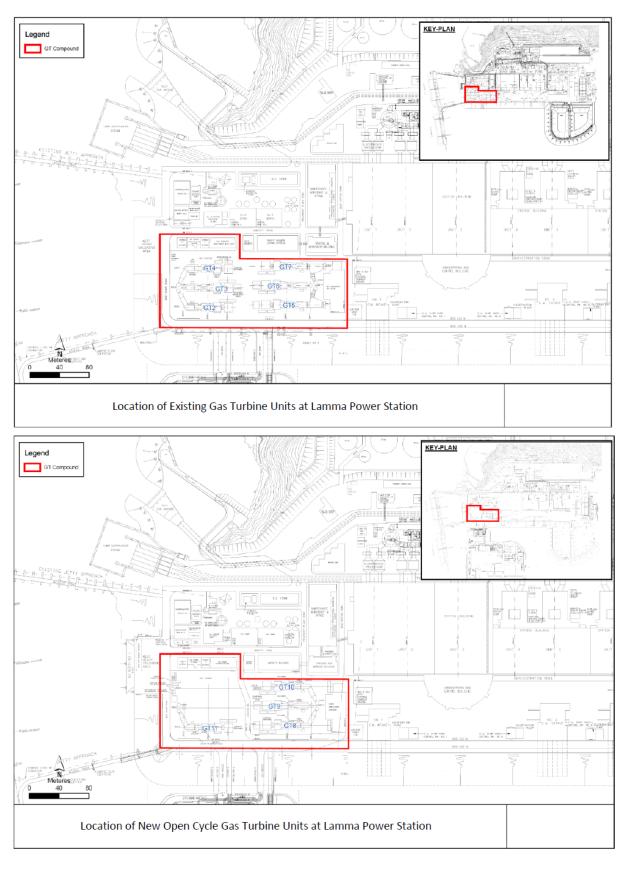


Figure 1.1 The Project Area

		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Q2 2025	Q3 2025	Q4 2025	Q1 2026	Q2 2026	Q3 2026	Q4 2026
GT57	Decommissioning of GT57 Demolition of E&M																				
	Demolition of E&M equipment in GTAB																				
Demolition	Demolition of HRSG																				
of GT7	Demolition of gas turbine, generator, generator transformer and auxiliary equipment																				
	Anchor bolt replacement																				
	Stack refurbishment																				
GT10	Construction of gas turbine, generator, generator transformer and auxiliary equipment																				
	Testing and Commissioning																				
	Demolition of HRSG																				
Demolition of GT5	Demolition of gas turbine, generator, generator transformer and auxiliary equipment																				
	Anchor bolt replacement																				
GT8	Construction of gas turbine, generator, generator transformer and auxiliary equipment																				
	Testing and Commissioning																				
Demolition of GT6	Decommissioning Demolition of gas turbine, generator, generator																				
01010	transformer and auxiliary equipment																				
	Anchor bolt replacement																				
GT9	Construction of gas turbine, generator, generator transformer and auxiliary equipment																				
	Testing and Commissioning																				
GT2	Decommissioning Demolition																				
GT3	Decommissioning Demolition										.										
GT4	Decommissioning Demolition		To be advised																		
GT11	Construction Testing and Commissioning																				

Figure 1.2 Decommissioning and Construction Phasing Schedule

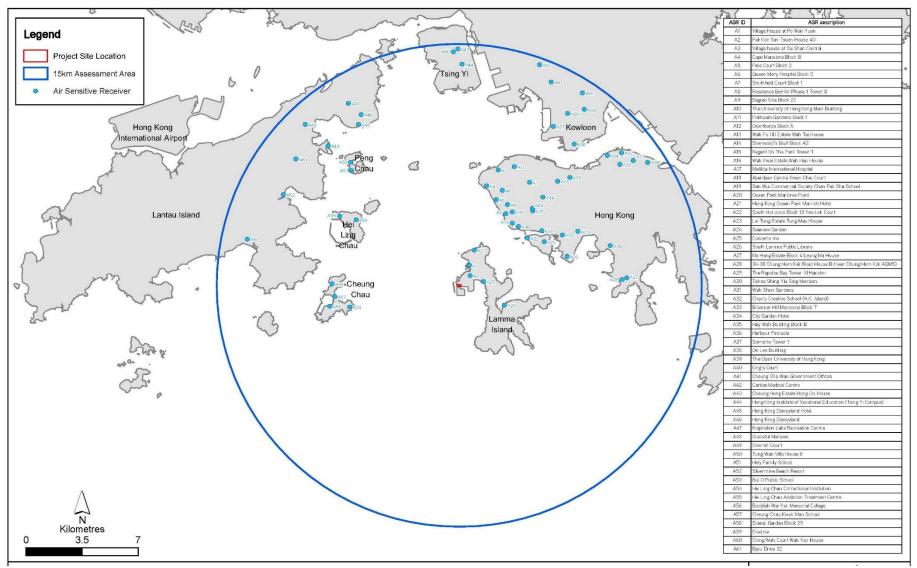


Figure 1.3 Locations of Air Sensitive Receivers within the 15km Assessment Area



Figure 1.4 Locations of Noise Sensitive Receivers



Figure 1.5 Locations of Water Sensitive Receivers

2. ENVIRONMENTAL AUDIT

2.1 Site Inspection

EPD officials from Regional Office (South) visited Lamma Power Station on 1/12/2022. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 23/12/2022. The site conditions were generally satisfactory.

Weekly site audits were carried out by the Environmental Team in the reporting month to ensure compliance with relevant legislations and other requirements. The site audit findings or recommendations in the reporting month are summarized in Appendix D. The site conditions were generally satisfactory. No non-compliance was recorded during the site inspection. All recommended mitigation measures were properly implemented.

2.2 Status of Environmental Licensing and Permitting

The licenses/permits obtained for the Project as of end December 2022 are summarised in Table 2.1.

License/Permit	cense/Permit Ref. No. Valid Period		Description	Status	
		From	То		
Environmental Permit	EP-600/2022	01/04/2022	-	For the decommissioning/ demolition, construction and operation of the Project	Valid
Waste Disposal Billing Account	Account No.: 7044319	27/06/2022	-	Civil Work	Valid
Registration of Chemical Waste Producer	5213-912- P2781-22	22/02/2016	-	Civil Work	Valid
EPD Notification (Dust) Construction, Air Pollution Control (Construction Dust) Regulation	481782	07/07/2022	-	Civil Work	Valid
Construction Noise Permit	GW-RS1132- 22	30/12/2022	26/6/2023	Civil Work. Operation of PME during restricted hours	Valid
Waste Disposal Billing Account	Account No.: 7045179	28/09/2022	-	E&M Work	Valid
Registration of Chemical Waste	5517-912- K2931-02	05/12/2022	-	E&M Work	Valid

Table 2.1 Status of Environmental Licensing and Permitting

License/Permit	Ref. No.	Valid 1	Period	Description	Status
		From	То		
Producer					

2.3 Waste Management

All wastes produced were managed in accordance with the Waste Management Plan, good waste management practices, and statutory regulations and requirements.

The estimated quantities of wastes generated in December 2022 are summarized in Table 2.2.

Table 2.2Estimated Quantities of Waste Generated in December 2022

	Non-inert C&D Materials						
Total Inert C&D Waste Materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
0 Tonnes	0 Tonnes	11.21 Tonnes	0 Litres				

The monthly waste flow tables prepared by the contractors are attached in Appendix E.

2.4 Implementation Status of Land Contamination Assessment

The EIA study has recommended to conduct site investigation and sampling at five hotspot locations (i.e. 4 boreholes and 1 trial pit) to assess the potential land contamination impacts within the Project site in accordance with the Contaminated Assessment Plan (CAP). Site investigation and soil and groundwater sampling will be undertaken in accordance with the CAP under the supervision of a Land Contamination Specialist when the proposed sampling locations are made available after the demolition of the existing units and structures. The updated CAP was submitted to EPD in December 2022 for approval.

2.5 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the Environmental Permit and the EM&A Manual are required to be implemented. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix C.

3. REPORT ON COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

3.1 Implementation Status of Environmental Complaint Handling Procedures

No complaint in relation to the environmental impact of the construction activities was received in the reporting month.

 Table 3.1
 Environmental Complaints Received in December 2022

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions /Actions Taken	Conclusion / Status
Nil	N/A	N/A

 Table 3.2
 Outstanding Environmental Complaints Carried Over

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions /Actions Taken	Conclusion / Status
Nil	N/A	N/A

3.2 Environmental Summon and Successful Prosecution

No notification of summon or successful prosecution was received in the reporting month.

 Table 3.3
 Notifications of Summon or Successful Prosecution Received in December 2022

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions /Actions Taken	Conclusion / Status
Nil	N/A	N/A

 Table 3.4
 Notifications of Summon or Successful Prosecution Carried Over

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions /Actions Taken	Conclusion / Status
Nil	N/A	N/A

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4. FUTURE KEY ISSUES

4.1 Construction Program for the Coming Month

The construction activities scheduled for the coming month are mainly trenching works, hoarding erection, civil modification works for existing GT6, site hoarding temporary lighting setup, demolition of ducting, discharge of oil and equipment demolition for E&M works (see Appendix B).

4.2 Key Issues for the Coming Month

Key issues to be considered and recommended in the coming month include:

Civil Works

General

- Relevant environmental legislations should be observed.
- Relevant environmental licenses/permits should be obtained, if required.
- Required environmental mitigation measures should be properly implemented.

Air

- Dust suppression measures should be implemented for the construction activities.

Noise

- General noise mitigation measures should be employed at work site.
- Works conducted during restricted hours should comply with the valid CNP.

Water

- Wastewater from site facilities should be properly collected and stored within the site area.
- Good site practices should be adopted.

Waste

- Waste Management Plan submitted should be implemented
- Good site practices should be adopted.

Land Contamination

- Good site practices should be adopted.

E&M Works

General

- Relevant environmental legislations should be observed.
- Relevant environmental licenses/permits should be obtained, if required.
- Required environmental mitigation measures should be properly implemented.

Air

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- Dust suppression measures should be implemented for the construction activities.

Noise

- General noise mitigation measures should be employed at work site.

Water

- Wastewater from site facilities should be properly collected and stored within the site area.
- Good site practices should be adopted.

Waste

- Waste Management Plan submitted should be implemented
- Good site practices should be adopted.

Land Contamination

- Good site practices should be adopted.

5. CONCLUSION

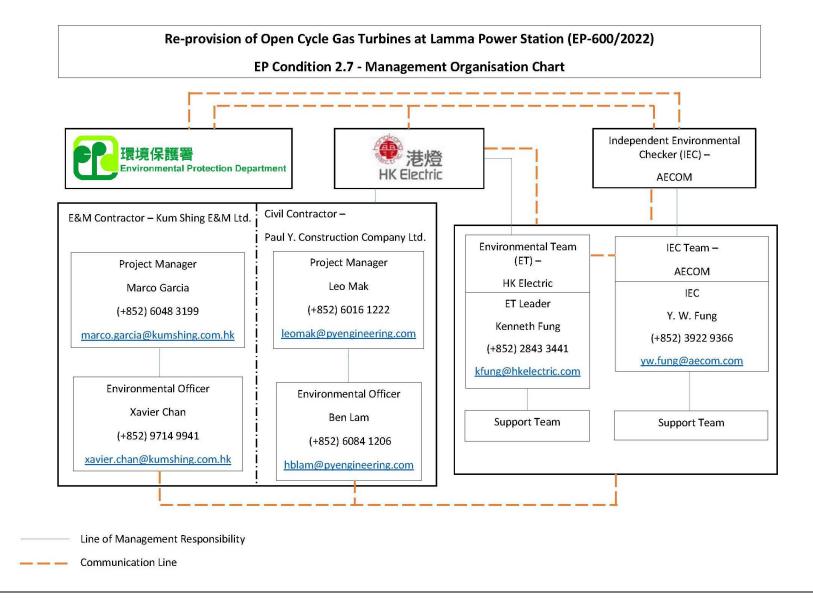
According to the EM&A Manual, environmental monitoring was not necessary in view of the anticipated insignificant environmental impact. Environmental audits were performed in accordance with the EM&A Manual.

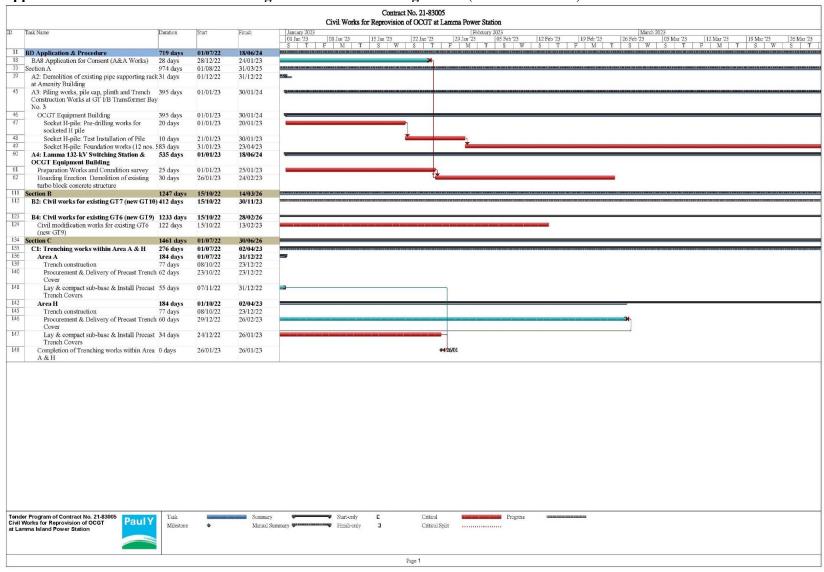
All recommended environmental mitigation measures were properly implemented. No complaint in relation to the environmental impact of the construction activities was received in the reporting month. There was also no notification of summon and successful prosecution for breaches of relevant environmental legislations received in the reporting month.

No non-compliance was recorded in the reporting month.

The environmental performance of the Project was generally satisfactory.

Appendix A Organization Chart





Appendix B1 Tentative Decommissioning and Construction Programme (Civil Contractor)

Task	re-Provision	Duration	Start	Finish	2022	2023	202	đ	2025	2026	2027
	Reprovision of power plant		3 (Tue 22/08/30		P P	14947	-		1 202.	12020	2021
-	Award of Contract	1 day		Tue 22/08/30	•	03/30					
-					1	09/15					
		100 1 1 100 100 1	and the second s								
		Contraction of the second s			-						
					-	Contraction and the second					
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		A REAL PROPERTY AND A REAL			-						
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	Stage 1 CW Intake Outage for GT57 CW System		a construction of the second s	the second se		11/09					
		1025 89	Mon 22/10/0	35at 25/08/30	a		-				
					t	● 10/03					
				and a grown in the state of the second	-						
		1041-1030-14 9 7			t	0/03					
						10/05					
1	Diversion of power supply for 415V GRS Distribution Board 2 (include cable tray	15.38 days	Wed 22/10/19	Thu 22/11/03		'n					
-		4 days	Wed 22/10/1	9 Sat 22/10/22	†						
	and the second se				4	1					
		1. P. M			-	+					
1	Diversion of power supply for 415V GRS Distribution Board 3 (include cable tray	15.5 days	Wed 22/10/19	Thu 22/11/03	12	**					
-4	Scaffolding Work	4 days	Wed 22/10/1	9 Sat 22/10/22	÷	lin in					
					-	K					
-					-	*					
	Diversion of contorl signal wiring for Instrument Air Compressor Nos. 3.	5.38 days									
	Scaffolding Work	2 days	Tue 22/10/25	Wed 22/10/26							
-4	Cable Lying Work	2 days	Tue 22/10/25	Wed 22/10/26		1					
	Termination Work	2 days	Fri 22/10/28	Sat 22/10/29	1	6					
	Diversion of power supply, control and alarm monitoring cable for Sewage Sump Pit SM3A Sump Pump "A" with supply of associated cable and cable supporting system (Waiting for Cable Delivery (lead	5 days	Sat 22/10/29	Fri 22/11/04							
=	Cable Lying Work	4 days	Sat 22/10/29	Thu 22/11/03	1	M					
-	Termination Work	1 day	Thu 22/11/03	Fri 22/11/04	1	F			10		
		Pre-Mobilization Site Mobilization Site Mobilization Commercial Operation for GT8 Commercial Operation for GT9 Commercial Operation for GT9 Commercial Operation for GT9 Commercial Operation for GT10 Pre-Work Stage GT6 Outage for Piping Modification Stage 1 CW Intake Outage for GT57 CW Syster Isolation E&M Demolition Stage Decomissioning of Existing OCGT5 Decomissioning of Existing OCGT6 Decomissioning of Existing OCGT7 Cable Diversion Diversion of power supply for 415V GRS Distribution Board 2 (include cable tray /cable ladder installation) Scaffolding Work Cable Lying Work Termination Work Diversion of power supply for 415V GRS Distribution Board 3 (include cable tray /cable ladder installation) Scaffolding Work Cable Lying Work Termination Work Diversion of power supply for 415V GRS Distribution Board 3 (include cable tray /cable ladder installation) Scaffolding Work Cable Lying Work Termination Work Diversion of power supply for 415V GRS Distribution Board 3 (include cable tray /cable ladder installation) Scaffolding Work Cable Lying Work Termination Work Diversion of power supply, control and alarm monitoring cable for Sewage Sump Pit SM3A Sump Pump "A" with supply of associated cable and cable supporting system (Waiting for Cable Divery (lead Cable Lying Work	Pre-Mobilization 1 day Site Mobilization 1 day Site Inspection & Document Preparation 1 day Commercial Operation for GT8 1 day Commercial Operation for GT9 1 day Commercial Operation for GT9 1 day Commercial Operation for GT10 1 day Pre-Work Stage 30 days GT6 Outage for Piping Modification 30 days Stage 1 CW Intake Outage for GT57 CW System 5 days Isolation E&M Demolition Stage 1025.8% Decomissioning of Existing OCGT5 1 day Decomissioning of Existing OCGT6 1 day Decomissioning of Existing OCGT7 1 day Cable Diversion 27.63 d Diversion of power supply for 415V GRS 15.38 Distribution Board 2 (include cable tray / cable ladder installation) 4 days Scaffolding Work 4 days Cable Lying Work 6 days Termination Work 2 days Diversion of power supply for 415V GRS 5.38 Diversion of contorl signal wiring for 5.38 Scaffolding Work 4 days Cable Lying Work 2	Pre-Mobilization1 dayFri 22/09/30Site Mobilization1 daySat 22/10/15Site Inspection & Document Preparation1 daySat 22/10/15Commercial Operation for GT91 dayFri 25/08/01Commercial Operation for GT91 dayFri 22/10/10Commercial Operation for GT91 dayFri 22/10/10Commercial Operation for GT101 dayThu 25/05/01Pre-Work Stage30 daysSat 22/10/15Stage 1 CW Intake Outage for GT57 CW System5 daysFri 22/11/04Isolation30 daysSat 22/10/15Sat 22/10/15Decomissioning of Existing OCGT51 dayMon 22/10/0Decomissioning of Existing OCGT61 dayMon 22/10/0Decomissioning of Existing OCGT61 dayMon 22/10/0Cable Diversion27.63 dayWed 22/10/1Cable Diversion of power supply for 415V GRS15.38WedOistribution Board 2 (include cable tray / cable ladder installation)24.55Wed 22/10/19Scaffolding Work4 daysWed 22/10/1922/10/19Cable Lying Work6 daysWed 22/10/1922/10/19Cable Lying Work6 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Operation for GT91 dayFri 22/01/01Fri 22/01/01Commercial Operation for GT91 dayFri 22/01/01Fri 22/01/01Pre-Work Stage30 daysSat 22/10/15Tue 22/11/01Stage 1 CW Intake Outage for GT57 CW System5 daysFri 22/01/03Fri 22/01/09Isolation1025.88Mon 22/10/03 Sat 25/08/3011/15Decomissioning of Existing OCGT51 dayThu 25/05/01Thu 25/05/01Decomissioning of Existing OCGT51 dayThu 22/10/0310/03Cable Diversion27.63 daysMan 22/10/03 Mon 22/10/0310/03Scaffolding Work4 daysWed 22/10/19Thu 22/11/03Cable Lying Work6 daysWed 22/10/26 Tue 22/11/01Cable Lying Work6 daysWed 22/10/26 Tue 22/11/01Scaffolding Work4 daysWed 22/10/26 Tue 22/11/01Scaffolding Work2 daysTue 22/10/25Scaffolding Work2 daysTue 22/10/25Scaffolding Work2 daysTue 22/10/25Scaffolding Work2 daysTue 22/10/25Scaffolding Work2 daysTue 22/10/26Cable Lying Work2 daysTue 22/10/26Scaffolding Work2 days<	Pre-Mobilization 1 day Fri 22/09/30 Fri 22/09/30 Fri 22/09/30 Site Mobilization 1 day Sat 22/10/15 Sat 22/10/15 Sat 22/10/15 Sat 22/10/15 Site Inspection & Document Preparation 1 day Sat 22/10/15 Tue 22/11/15 Sat 22/10/15 Sat 22/10/15 Tue 22/11/15 Sat 22/10/15 Sat	Pre-Mobilization1 dayFri 22/09/30Fri 22/09/30Site Mobilization1 daySat 22/10/15Sat 22/10/15Site Inspection & Document Preparation1 daySat 22/10/15Sat 22/10/15Commercial Operation for GT81 dayFri 25/08/01In/125/08/01Commercial Operation for GT91 dayFri 22/01/15Sat 22/10/15Commercial Operation for GT91 dayFri 22/01/16Fri 22/01/16Commercial Operation for GT91 dayFri 22/01/15Tue 22/11/15Grif Outage for Piping Modification30 daysSat 22/10/15Tue 22/11/15Stage 1 CW Intake Outage for GT57 CW System5 daysFri 22/10/03 Sat 25/08/3011/09Decomissioning of Existing OCGT51 dayMon 22/10/03 Mon 22/10/0311/09Decomissioning of Existing OCGT61 dayMon 22/10/03 Mon 22/10/0310/03Decomissioning of Existing OCGT61 dayMon 22/10/03 Mon 22/10/0310/03Distribution Board 2 (include cable tray / cable Lader installation)27.68 day Wed 22/10/15 Sat 22/10/12Scaffolding Work6 daysWed 22/10/26 Tue 22/11/01Diversion of power supply for 415V GR515.5WedThu 22/11/03Distribution Board 3 (include cable tray / cable Lader installation)4 daysWed 22/10/26 Tue 22/11/01Scaffolding Work6 daysWed 22/10/25 Wed 22/10/26Cable Lying Work2 daysTue 22/10/25 Wed 22/10/26Diversion of power supply, control and alarm monitoring cable for Sewage Suppring PI SMAA Sump Pum Pi X with suppring asoc	Pre-Mobilization 1 day Pri 22/09/30 Fri 22/09/30 Pri 22/09/30 Site Mobilization 1 day Sat 22/10/15 Sat 22/10/15 Sat 22/10/15 Sat 22/10/15 Commercial Operation for GT8 1 day Sat 22/10/15 Sat 22/10/15 Sat 22/10/15 Sat 22/10/15 Sat 22/10/15 Commercial Operation for GT8 1 day Fri 22/08/01 Fri 22/08/01 Fri 22/08/01 ID15 Commercial Operation for GT9 1 day Fri 22/08/01 Fri 22/08/01 Fri 22/08/01 ID15 Commercial Operation for GT9 1 day Fri 22/08/01 Thu 25/05/01 ID15 ID15 State Mobilization 30 days Sat 22/10/15 Thu 25/05/01 ID105 ID15 E&M Demonisoning of Existing OCGT5 1 day Mon 22/10/03 Mon 22/10/03 ID03 ID03 Deconsisoning of Existing OCGT6 1 day Mon 22/10/03 Mon 22/10/03 ID03 ID03 Distribution Board 2 (finclude cable tray // cable ladder installation) 2 days Thu 22/11/16 ID03 ID03 Scatifioling Work 4 days Wed 22/10/25 Sat 22/10/25 Sat 22/10/26 ID03 Distribu	Pre-Mobilization 1 day Pre 22/03/00 Pre 22/03/00 Site Mobilization 1 day Set 22/10/15 Set 22/10/15 Set 22/10/15 Site Mobilization 1 day Set 22/10/15 Set 22/10/15 Set 22/10/15 Set 22/10/15 Commercial Operation for GT8 1 day Fre 25/08/01 Fre 25/08/01 Fre 25/08/01 Fre 25/08/01 Commercial Operation for GT9 1 day Fre 22/10/15 Set 22/10/15 Set 22/10/15 Set 22/10/15 Set 22/10/15 Commercial Operation for GT9 30 days Set 22/10/15 Set 22/10/15 Set 22/10/15 Set 22/10/15 Set 22/10/15 Stage 1 CW Intake Outage for GT57 CW System 5 days Fri 22/10/05 Mon 22/10/03 Set 22/10/15 Set 22/1

Appendix B2 Tentative Decommissioning and Construction Programme (E&M Contractor)

	D Task	Task Name	Duration	Start	Finish	2022	2023	20	24	2025	<i>#</i>	2026	2027
3 (Task	Diversion of power supply, control and alarm monitoring cable for Sewage Sump Pit SMS Sump Pump "A", with supply of associated cable and cable supporting system (Waiting for Cable Delivery (lead	4 days		Tue 22/11/08								Le.
34 (2 =	Cable Lying Work	3 days	Fri 22/11/04	Mon 22/11/07		R.						
35 🕻	2-	Termination Work	1 day		7 Tue 22/11/08		*						
36 (2-	Diversion of power supply, control and alarm monitoring cable for Oily Drain OMG-03 Sump Pump, with supply of	4 days	Mon 22/11/07	Thu 22/11/10		10						
37	_	associated cable and cable supporting											
	4	Cable Lying Work	3 days		7 Wed 22/11/09		1						
38 (39 (Termination Work	1 day		Thu 22/11/10								
		Diversion of power supply for DC230V Battery Charger and GT57 Lighting Inverter 3 with supply of associated cable and cable	2 days	Wed 22/10/26	Thu 22/10/27								
40		Termination Work	2 days	Wed 22/10/20	5 Thu 22/10/27								
41 (1-	Diversion of power supply for 6.6-kV GT Station Board 2 with associated 6.6-kV cable joint box after de-commissioning of existing 6.6-kV GT57 Station Board and after power receiving of new 6.6-kV GT	17.5 days	Sat 22/10/29	Wed 22/11/16	6							
42	-	Scaffolding Work	8 days	Sat 22/10/29	Mon 22/11/07								
43		Junction Box Installation	3 days	Thu 22/11/03	Sat 22/11/05								
44 0	2=	Cable Removal	7 days	Sat 22/11/05	Sat 22/11/12		F						
45		Termination Work	3 days	Sat 22/11/12	Wed 22/11/16		1						
	2 =	Diversion of power supply for GTAB 2/F Overhead Crane	8 days	Fri 22/11/04	Sat 22/11/12		n.						
47		Scaffolding Work	3 days	Fri 22/11/04	Mon 22/11/07		I						
48		Cable Lying Work	6 days	Fri 22/11/04	Thu 22/11/10		<u>L</u>						
- CO	2-	Termination Work	2 days	Thu 22/11/10	Sat 22/11/12								
	2 =	HRSG Demolition	183.25 0	la Fri 22/11/04	Fri 23/05/12		I						
	2 -	Demolition of HRSG5	127 day	s Mon 23/01/0	2Fri 23/05/12								
52	-4	Mobile Crane on Site	0 days	Mon 23/01/02	2 Mon 23/01/02	2	01/02						
	4	Set Up and Load Test on Mobile Crane	3 days	Mon 23/01/02	2 Wed 23/01/04		5						
	2	Mobile Crnae Ready for Use	0 days	Wed 23/01/04	1 Wed 23/01/04		01/0 4						
55		Set Up of Crawler Crane	13 days	Mon 23/01/02	2 Sat 23/01/14		• 01/1 4						
	2=	Load Test on Crawler Crane	5 days	Tue 23/01/10	Sat 23/01/14		K						
	2=	Crawler Crane Ready for Use	0 days	Sat 23/01/14	Sat 23/01/14		01/14						
	2 🛶	Removal of Gas Outlet Duct	10 days	Wed 23/01/0			m						
	2=	Removal of Steam Room EL +23300 - EL +	+40 days	Sat 23/01/14	Sat 23/02/25								
76 0	2=	Removal of Gas Inlet Duct	10 days	Sat 23/02/25	Tue 23/03/07		п						
	2-	Removal of HRSG Roof – above Hot Beam	12 days	Wed 23/03/0	8 Mon 23/03/20	1	п						
	2 -	Removal of Modules – Boiler Internal – 5					н						
91 (2 -	Removal of HRSG External platforms in controlled manner	A DEVENING THE PARTY	and the second second second second second	Mon 23/05/01		п						
		Tesk	Project Sun	amery I	I Mer	nuel Tesk		Start-only	E	Deadline	4		
		KE-OCGT_Reprov Split	Inactive Ta			stion-only	a	Finish-only	3	Progress	_		
Date: W	/ed 22/10		Inactive Mi	lestone 💿	Ma	aual Summary Rollup		External Tasks		Manual Progress	-		
		Summery	Inactive Su	nuero I		nusl Summery		Esternal Milestone	•				

	OCGT Re-Prov					1	2023			1	anar	2027
) (Task Task	Name	Denation	Start	Finish	2022		202	4	2025	2026	202)
97 G	Task Task	Removal of all remaining piping connected to HRSG Headers – (Internally)	12 days	Mon 23/05/01	Fri 23/05/12		п					
110	1 🔫	Demolition of HRSG7	127 day:	s Fri 22/11/04	Wed 23/03/15	5						
111	-	Mobile Crane on Site	0 days	Fri 22/11/04	Fri 22/11/04		11/04					
112 🖸		Set Up and Load Test on Mobile Crane	3 days	Fri 22/11/04	Mon 22/11/07	t.	E.					
113	1 🔫	Mobile Crane Ready for Use	0 days	Mon 22/11/07	Mon 22/11/07		¥11/07					
114 6		Set Up of Crawler Crane	13 days	Wed 22/11/30	Tue 22/12/13							
115 🖸		Load Test on Crawler Crane	5 days	Thu 22/12/08	Tue 22/12/13		K					
116 🖸		Crawler Crane Ready for Use	0 days	Tue 22/12/13	Tue 22/12/13		₹12/13					
117 🧧		Removal of Gas Outlet Duct	10 days	Mon 22/11/0	Thu 22/11/17		11					
121		Removal of Steam Room EL +23300 – EL +	40 days	Thu 22/11/17	Thu 22/12/29		1					
135 🖸		Removal of Gas Inlet Duct	10 days	Thu 22/12/29	Sat 23/01/07		n					
140		Removal of HRSG Roof – above Hot Beam	12 days	Mon 23/01/09	Fri 23/01/20		m					
142		Removal of Modules – Boiler Internal – 5	20 days	Fri 23/01/20	Fri 23/02/10		m					
50 G	1	Removal of HRSG External platforms in controlled manner	20 days	Fri 23/02/10	Fri 23/03/03		п					
156 🗳	1=			Fri 23/03/03	Wed 23/03/15	i	M					
			Project/Surr	unery		nuel Tesk		Stert-only	Γ	Dedine	*	
	KEM-HKE-OC	GT_Reprov Split	Inactive Ta-	4	Dur	ration-only		l'inish-aly	C 3	Progress	*	
	KEM-HKE-CC ed 22/10/26			4	Dur						*	

8	1 Task	Task Name	Duration	Start	Finish	2022	2023	2024	0	025	2026	2027
188	0 Task 🚰 🔫		14 days		Wed 25/06/11		, and Manager	1.442		1.	L'avair.	1.00
189	Q =		12 days	Contraction of the second second	Tue 25/06/24							
90	¢	Disconnect the Pipe and Associated	14 days	Wed	Wed 25/06/25	5						
191	Q =	Equipment from Gas Exhaust Duct Lift and Move the Gas Exhaust Duct to the	24 days	25/06/11 Thu 25/06/26	Mon 25/07/21	2						
192	C	Transporter Dismantle and Removal of Other E&M Equ	10 days	Mon 25/07/2	1 52+ 25/08/30							
	64 =	Use the SPMT to Transport the Equipment	1		Sat 25/08/30							
		to Designated Storage Area		25/07/21								
	<u> -</u>	Demolition of GT7	143 days	s Sat 22/12/31	Mon 23/05/29	H I						
		Set Up Mobile Gantry Crane	14 days	Sat 22/12/31	Sat 23/01/14		⊕_01/14					
	Q	Load Test on Gantry Crane	5 days	Tue 23/01/10	Sat 23/01/14							
	Q =,	Gantry Crane Ready for Use	0 days	Sat 23/01/14	Sat 23/01/14		01/14					
198	Q =	And the stand with the stand of the stand stand stands of the stand stand stands of the stand s	Provence greens	Sat 23/01/14								
100	Q =		12 days	Sat 23/01/28	Fri 23/02/10		Ť					
210	<u>6</u> =		14 days	Sat 23/01/28	Mon 23/02/13	2	1					
201	ē =		12 days	Mon 23/02/13	Fri 23/02/24		1					
Xi2	ů =		14 days		Mon 23/02/27	ŝ	Ť					
203	Ē =	Lift and Move the Gas Exhaust Duct to the Transporter	24 days	and a state of the second s	Fri 23/03/24		-					
X)4	(4 = ,	Dismantle and Removal of Other E&M Equ	48 days		Fri 23/05/12		T					
	¢ - ,	Use the SPMT to Transport the Equipment to Designated Storage Area			Mon 23/05/29		—					
86	2-		98 days	Fri 22/10/21	Tue 23/01/31							
					Wed 22/11/30		-					
		Dismantle of Auxiliary Equipment from GTAB Pump set, Cooler, Air Receiver and Related					1					
XN	E 🛋		2 days	Eri 22/10/21	Mon 22/10/24							
	⊾		The second second second				•					
		Disconnect the power supply from each ed			Tue 22/10/25	-	\mathbf{I}					
	Ğ - ⇒	Install the blind plates and isolate valves for isolation with the system before	CC REPLACE	Tue 22/10/25								
	Ē <u></u> ⊒,	Drain and vent all the steam / gas / water - HKE to support	2 days	Thu 22/10/27	S. 12]					
	Q - 4	Pump Set and pipe Removal	2 days	Sat 22/10/29	Tue 22/11/01		6					
	🗳 🔫	Disconnect all auxiliary piping and tubing	2 days	Tue 22/11/01	Wed 22/11/02		h					
215	ġ .	Remove equipment from baseplate by using fork lift	2 days	Thu 22/11/03	Frì 22/11/04		h					
216	ů –	Relocate equipment from GTAB to designated storage area	2 days	Fri 22/11/04	Mon 22/11/07	6	h					
x 10 P	100779187.00770040	Tesk	Project Surr	NUMBER (1)	(5) 2010070	nual Task	Stert-	CARCIES .		Desdline	ŧ	
		KE-OCGT_Reprov SpEt	Inactive Tax			ation-only 😤		h-only		rogress		
ate:)	Wed 22/10	Parkinolik 🗸	Inactive Mi			nual Summary Rollup		mel Tesks		denual Progress	-	
		Summery	Inactive Sur	ninery [Mar	neel Semmery	Ester	mal Millestone 🛛 🔍	>			

1 Task	Task Name		Duration	Start	Finish	2022	2023	2	324	2025	2026	2027
17 🚰 🔫	Erec	t mobile scaffold / use scissor lift to ss pipework inside GTAB	2 days	Mon 22/11/07	Wed 22/11/09		F	3 17			(1997) B.T.	
18 🗳 🔜		nantle pipe and pipe support by undo king bolt and hanger	2 days	Wed 22/11/09	Fri 22/11/11		ĥ					
19 🗳 🔜	Air Rec	eiver, Filter, Dryer and Pipework Rem	18 days	Tue 22/11/01	Sat 22/11/19		n					
20 🖾 🔜		onnect pipework from air compressor		Tue 22/11/01	Thu 22/11/03		h					
221 🛱 🔫	Insta	Il the blind plates and isolate valves solation with the system before			Mon 22/11/07		h					
222 🛱 🔜	Drai	n and vent all the steam/ gas/ water nsure no harness	3 days	Mon 22/11/07	Thu 22/11/10		F					
223 🛱 🔫		ove all compressed air pipe and ort inside GTAB	3 days	Thu 22/11/10	Sat 22/11/12		5					
224 🛱 🔜		g Gantry crane to secure the air iver/air filter/air dryer and undo the	3 days	Sat 22/11/12	Wed 22/11/16		F					
225 🛱 🔫	outs	cated air receiver/air filter/air dryer ide GTAB and transport all equipment esignated storage area by crane lorry	1.1	Wed 22/11/16	Sat 22/11/19		ĥ					
226 🛱 🚅		Drum Removal (Deaerator, LP Steam HP Steam Drum)	20 days	Thu 22/11/10	Wed 22/11/30		П					
227 🛱 🔫		t scaffold around Deaerator, HP Main m Drum, LP steam Drum, HP steam	3 days	Thu 22/11/10	Sat 22/11/12		1					
228 🛱 🔫		oval cladding and insulation from ns, pipework and Deaerator	3 days	Sat 22/11/12	Wed 22/11/16		11					
229 🖳 🤜	Disc	onnect steam pipe from Drums, Deaer	3 days	Wed 22/11/16	Sat 22/11/19		N.					
230 🛱 🔜		ove HRSG Blow down tank silencer, G silencer and S/T Flash Tank silencer	2 days	Sat 22/11/19	Mon 22/11/21		F					
231 🛱 🔫		ng all silence from GTAB by All Terrain es T250 / T300	2 days	Tue 22/11/22	Wed 22/11/23		1					
232 🛱 🛋		ove Drum enclosure partial to expose tream drum	3 days	Wed 22/11/23	Sat 22/11/26		1					
233 🗳 🛋	to A	re HP stream drum by its lifting eye I Terrain Cranes and undo anchor bolt	5	Sat 22/11/26		-	1					
234 🛱 🔫	tran	ng the drum to lorry crane or suitable sportation and relocate to designated age area	2 days	Tue 22/11/29	Wed 22/11/30		5					
235 🛱 🔫	Steam	Turbine Removal - 89.3T	20 days	Thu 22/12/01	Wed 22/12/21		<u>1</u>					
236 🚰 🔫		gize overhead crane inside GTAB and / out Load test and get RPE approval	3 days	Thu 22/12/01	Sat 22/12/03		Ĩ					
237 👰 🔫		olt Steam turbine acoustic enclosure hook up eye bolt with overhead crane	8	Sat 22/12/03	Tue 22/12/06		F					
238 🖾 🔜			2 days	Tue 22/12/06	Thu 22/12/08	-	F.					
239 🛱 🛶	Lift t unlo	he acoustic enclosure then unload to ading area on top of SPMT and cate to designated storage area		Thu 22/12/08	The construction of the co							
240 🛱 🔫	Rem	ove top half of Bearing support from ing No.1, and coupling connected to	2 days	Sat 22/12/10	Mon 22/12/12		ř					
		Thak	Project Sur	unery l	- Men	uel Tesk		Start-only	E	Dendline	+	
	IKE-OCGT_Reprov	Split	Inactive Ta			tion-only	-	Finish-only	3	Progress		
Date: Wed 22/1	0/26	Milestone	Inactive Mi	lestone 💿	Man	usl Summary Rollup		Esternel Tasks		Manual Progress		
		Summery	Inactive Sur			ual Summary	r	Esternel Milestone	•			

	1 Task	Task Name	Deration	Start	Finish	2022	2023	25)24	2025	2026	2027
41	O Task		3 days	Mon 22/12/12	Thu 22/12/15							
24:2	ĝ - ,	Undo the anchor bolt from stream turbine support frame	2 days	Thu 22/12/15	Sat 22/12/17		F					
243	ê 🔫	Secure steam turbine by lifting eye to overhead crane and unload to SPMT	2 days	Sat 22/12/17	Mon 22/12/19		F					
244	ē -	Relocate steam turbine unit to temporary storage area or east side jetty	2 days	Tue 22/12/20	Wed 22/12/21		Ť					
245	@ _ _	Generator Removal - 193T	20 dave	Med 22/12/21	Wed 23/01/11		m					
	Q 🚅		1 day	Wed 22/12/2.	Thu 22/12/22		*					
		disconnected and de energized		22/12/21		-						
	Ğ	Temporary install platform to cover the opening after steam turbine dismantle	1 day	Thu 22/12/22	Fri 22/12/23							
248	Ğ _ ⇒	Erect scaffold at the side of Generator and remove the Generator Cooling water pipe	1 day	Thu 22/12/22	Fri 22/12/23		E.					
249	Ğ <u>1</u> =,	Hook up overhead crane lifting gear to the Generator enclosure	1 day	Fri 22/12/23	Sat 22/12/24		ĥ					
250	Q	Dismantle contactor, exciter, and brush	1 day	Sat 22/12/24	Mon 22/12/26		R.					
251	ê -,	Remove Bearing top cover from both side of Generator		Mon 22/12/26	Tue 22/12/27							
252	Ğ <u>-</u> ,	Remove the Hydrogen seal and oil deflector upper half on both end	1 day	Mon 22/12/26	Tue 22/12/27		1					
253	2=	Dismantle Generator end cover on both si	1 day		Wed 22/12/28		*					
254	Q 🛶	Install rotor jacking device on both sides to lift the rotor slightly		Wed 22/12/28	Wed 22/12/28		F					
255	Q	Disassemble lower half Front and rear bea	1 day	and the second	Thu 22/12/29		5					
	¢	Remove the Hydrogen seal and oil deflector lower half on both end	1 day	Thu 22/12/29			h					
257	C4 🔜	Loose fan nozzle ring	1 dav	Fri 22/12/30	Sat 22/12/31		*					
	Č4 ==,		1 day		Mon 23/01/02							
	64 🔜	Self-Propelled Modular Transporter and	*									
		Setup another rotor support at the North side of existing Generator		Mon 23/01/02	Tue 23/01/03		l					
	§ .	Install Generator rotor extension rod to the flange near rear bearing	1 day		Wed 23/01/04							
261	ġ 🚅	Hook up lifting gear to the flange next to Front bearing and Rear bearing	1 day	Wed 23/01/04	Thu 23/01/05		5					
262	Ğ . =.,	Remove the rotor from stator and transport to the temporary support on	1 day	Thu 23/01/05	Fri 23/01/06		F					
263	ĝ <u>.</u> 📑	Remove lifting gear from Generator rotor extension rod and dismantle extension	1 day	Fri 23/01/06	Fri 23/01/06		F					
264	Ğ <u>1</u> ==,	Re-attach lifting gear to the rotor and moving the rotor to the rotor support on	1 day	Sat 23/01/07	Sat 23/01/07		F					
265	ē =		1 day	Sat 23/01/07	Mon 23/01/09		F					
		conductors from stator slot for weight							No.			5.41
		Tesk	Project Sur	however (it		usl Task	1	Start-only	C	Desdline	+	
		KE-OCGT_Reprov Split	Inactive Ta-			tion-only	95 - E	Finishanly	_	Progress		
Jate: '	Wed 22/10.	Wireholde w	Insclive Mi			usl Summery Rollup		Esternal Tasks		Manual Progress		
		Summery	Inactive Sur	minary	Man	asl Summery		Esternal Milestone	•			

HKE L	PS OCGT R	e-Provision											
D	1 Task	Task Name		Duration	Start	Finish	2022	2023	202	1	2025	2026	2027
266	O Task	Unb	oolt the stator support anchor bolt n hook up to overhead crane	1 day	Mon 23/01/09	Tue 23/01/10		F					
267	ů -	area	the stator then unloaded to unloading a on top of SPMT and relocate to ignated storage area	1 day	Tue 23/01/10	Wed 23/01/11	2	Ĩ					
268	C2 🔜	Conde	nser Removal	19 days	Wed 23/01/11	Tue 23/01/31		n i					
269	Q. =.	Che		2 days	Wed 23/01/11	Fri 23/01/13		Ţ					
270	ê 🔜		ct scaffold around the condenser top ca	2 days	- Constant C	Mon 23/01/16		t i i i i i i i i i i i i i i i i i i i					
	Ğ ₽	Flan sepa		3 days	Mon 23/01/16	Wed 23/01/18							
	🗳 🔜	Lifti	ng and remove condenser casing	2 days	Wed 23/01/18	8 Fri 23/01/20		No.					
	ġ.	to u	the Condenser section then unloaded inloading area on top of SPMT and cate to designated storage area	2 days	Fri 23/01/20	Mon 23/01/23		ř					
	ġ_ =;		ct scaffold/temporary platform inside denser	2 days	Mon 23/01/23	Wed 23/01/25	8						
	ĝ <u>.</u> =,		ne cut and / or grinding to remove all ling water tube inside condenser	2 days	Wed 23/01/25	Thu 23/01/26							
276	\$		ng cooling water tube and unload to 1T at unloading area	2 days	Thu 23/01/26	Sat 23/01/28		T.					
277	ê -		ver all material to designated storage a or east side Jetty	2 days	Sat 23/01/28	Tue 23/01/31		F.					
278	E 🔫	Demo	lition E,I&C Equipment in GT57 & CJEEE	40 days	Mon 22/10/24	Sat 22/12/03							
279	Q =3	Civil Work	Stage	1084 da	Wed 23/02/0	I Sat 26/02/28		-					
280	E 🔫	Anchor B	olt Replacement for GT8	175 day:	s Thu 24/02/01	Wed 24/07/31							
281	Ē. 🔫	Anchor B	olt Replacement for GT9	175 day:	Mon 25/09/01	l Sat 26/02/28							
282	. =3	Anchor B	olt Replacement for GT10	176 day:	s Thu 23/06/01	Thu 23/11/30							
283	[] =3	GTAB Mo	odification (By Others)	467 day:	s Wed 23/02/01	l Thu 24/05/30		in the second se					
			Tesk	Project Sur	ITTRETY	Mar	nuel Tesk		Stert-only	C	Deedline	*	
		KE-OCGT_Reprov	SpBL	Inactive Ta	100000E1 (1)		rstion-only		Finish-only	3	Progress		
	Wed 22/10		Milestone III	Inactive Mi			nusl Summary Rollup		Esternel Tasks		Manual Progress		
			Summery	Inactive Su	nmery I	Ma	nuel Summery	r1	Esternel Millestone	•			
			<u>*</u>				Pag	e 7					

Appendix C Summary of EMIS

EM&A Log Ref.	Recommended Mitigation Measures	Implementation Status
	AIR QUALITY	
EM&A: S2	Impervious sheet will be provided for skip hoist for material transport.	Complied
EM&A: S2	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Complied
EM&A: S2	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Complied
EM&A: S2	Dropping heights for excavated materials should be controlled to a practical height to minimise the fugitive dust arising from unloading.	Complied
EM&A: S2	During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.	Complied
EM&A: S2	Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.	Complied
EM&A: S2	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	No applicable at this stage
EM&A: S2	All exposed areas will be kept wet always to minimise dust emission.	Complied
EM&A: S2	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Complied
EM&A: S2	The engine of the construction equipment during idling will be switched off.	Complied
EM&A: S2	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Complied

Table C.1 Mitigation Measures and their Implementation in the Reporting Month

52		
EM&A: S2	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Complied
EM&A: S2	The engine of the construction equipment during idling will be switched off.	Complied
EM&A: S2	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Complied
EM&A: S2	All marine vessels fuelled in Hong Kong will operate using marine light diesel with Sulphur content lower than 0.05%.	Complied
EM&A: S2	NRMMs, e.g. mobile generator and air compressor, will comply with the prescribed emission standards with a proper label approved by EPD.	Complied
EM&A: S2	Electric power supply for on-site machinery will be provided as far as practicable for construction activities.	Complied
EM&A: S2	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the decommissioning/ demolition/ construction phases, environmental site audits on weekly basis is recommended throughout the construction period.	Complied

EM&A Log Ref.	Recommended Mitigation Measures	Implementation Status
APCO	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving construction site.	No applicable at this stage
	NOISE	
EM&A: S3	Machines and construction plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	Complied
EM&A: S3	Only well-maintained construction plant should be operated on-site and should be serviced regularly.	Complied
NCO	Valid construction noise permits, if required, are available for inspection.	Complied
NCO	Conditions of construction noise permits, if any, for the relevant part(s) of the works are implemented accordingly.	Complied
NCO	Valid noise emission labels are fixed at air compressors and hand held percussive breakers.	Complied
	WATER QUALITY	
EM&A: S4	Wastewater, chemical waste and effluent from cleaning of existing OCGTs would be collected, stored for proper disposal by licensed contractor.	No applicable at this stage
EM&A: S4	Silt removal facilities such as silt traps or sedimentation facilities will be provided where necessary to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	No applicable at this stage
EM&A: S4	Appropriate surface drainage will be designed and provided, where necessary.	No applicable at this stage
EM&A: S4	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	No applicable at this stage
EM&A: S4	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the stormwater drainage system after accidental spillages.	No applicable at this stage
EM&A: S4	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.	No applicable at this stage
EM&A: S4	The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	No applicable at this stage
EM&A: S4	Appropriate numbers of portable toilets shall be provided by a licensed contractor where necessary to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Complied
EM&A: S4	To ensure proper implementation of the recommended water quality mitigation measures and good construction site practices during the decommissioning/ demolition, and construction phases, environmental	Complied

EM&A Log Ref.	Recommended Mitigation Measures	Implementation Status
	site audits on weekly basis is recommended throughout the construction period.	
	WASTE MANAGEMENT	
EM&A: S5	The contractor(s) must ensure that all the necessary waste disposal licences are obtained prior to the commencement of the decommissioning/ demolition and construction works.	Complied
EM&A: S5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Complied
EM&A: S5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/landfills, and to control fly-tipping.	Complied
EM&A: S5	A WMP as stated in the PNAP ADV-19 for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation.	Complied
EM&A: S5	C&D materials will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the Site will be designated for such segregation and storage if immediate use is not practicable. Prefabrication will be adopted as far as practicable to reduce the construction waste arisings.	Complied
EM&A: S5	The contractor(s) will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.	Complied
EM&A: S5	 Containers used for storage of chemical wastes will: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations. 	Complied
EM&A: S5	 The storage area for chemical wastes will: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Complied
EM&A: S5	Chemical waste will be disposed of: • Via a licensed chemical waste collector; and	No applicable at this stage

EM&A Log Ref.	Recommended Mitigation Measures	Implementation Status
	• To a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers.	
EM&A: S5	General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered separately from construction and chemical wastes for offsite disposal on a daily basis to reduce odour, pest and litter impacts.	Complied
EM&A: S5	Recycling bins will be provided at strategic locations within the Project Site to facilitate recovery of recyclable materials (including aluminium cans, waste papers, glass bottles and plastic bottles, etc.). Materials recovered will be sold for recycling.	No applicable at this stage
EM&A: S5	To avoid any odour and litter impact, appropriate number of portable toilets will be provided for workers on-site where appropriate.	No applicable at this stage
EM&A: S5	At the commencement of the decommissioning/demolition and construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Complied
EM&A: S5	General refuse and non-recyclables will be stored in enclosed bins and collected by existing waste management contractor at Lamma Power Station for disposal at the landfills on a daily basis for avoidance of pest and odour nuisance.	Complied
EM&A: S5	Recycling bins for recyclable materials (including aluminium cans, waste papers, glass bottles and plastic bottles) will be placed at the site office and transported off- site for recycling on a regular basis.	Complied
EM&A: S5	It is recommended that weekly audits of the waste management practices be carried out during the decommissioning/demolition, and construction phases to determine if wastes are being managed in accordance with the recommended good site practices and WMP. The audits will investigate all aspects of waste management including waste generation, storage, handling, recycling, transportation and disposal.	Complied
	LAND CONTAMINATION	
EM&A: S6	During the demolition stage, a Land Contamination Specialist shall oversee the removal / demolition activities and record any new visual signs of potential contamination such as oil leakage or oil stains. The Land Contamination Specialist shall also review the need of additional sampling to capture potential contamination observed during the demolition stage.	Complied
EM&A: S6	SI and sampling shall be carried out when the proposed sampling locations are available after the demolition stage.	No applicable at this stage
EM&A: S6	Soil and groundwater sampling works will be supervised by a Land Contamination Specialist.	No applicable at this stage
EM&A: S6	Prior to commencement of demolition works in the Project site, the leftover diesel or other petroleum products in the equipment to be demolished shall be removed as much as possible. The removed diesel or other petroleum products will be reused as far as practicable. The removed diesel and other petroleum products, which cannot be reused are considered as chemical waste and are controlled under the Waste Disposal (Chemical Waste)(General) Regulation. The demolition contractor who will generate the chemical waste or cause it to be	Complied

EM&A Log Ref.		Implementation Status
	produced should register with the EPD as a chemical waste producer. Removed diesel and petroleum products shall be labelled and stored in accordance with the requirement stipulated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes issued by EPD. The removed petrol and petroleum products are required to be collected by licensed chemical waste collector for disposal. Trip tickets system shall be implemented during the collection and disposal of removed petrol and diesel.	
EM&A: S6	 During demolition and construction phases, the following good housekeeping practices shall be implemented to ensure that risk of ground contamination as a result of oil spills or leaks is kept to a practical minimum: Regular visual inspections to detect any early signs of fuel leakage prior to demolition; Provision of impermeable lining or absorbent materials to contain leaks; Provision of secondary containment for the temporary storage of removed diesel or petroleum products, demolished structures and pipes; and Provision of spill control materials and equipment 	Complied
EM&A: S6	To ensure proper implementation of the good housekeeping practices, weekly site inspections should be carried out during the decommissioning/demolition, and construction phases of the Project.	Complied

Remarks:

APCO:	Air Pollution Control Ordinance
EM&A:	EM&A Manual
NCO:	Noise Control Ordinance

Appendix D Summary of Site Audit Findings or Recommendation

Civil contractor

Dates of Inspection: 06/12/2022, 13/12/2022, 23/12/2022 and 29/12/2022

Summary of Findings or Recommendation

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

Land Contamination

- No environmental deficiency identified.

E&M contractor

Dates of Inspection: 02/12/2022, 09/12/2022, 16/12/2022, 23/12/2022 and 30/12/2022

Summary of Findings or Recommendation

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

Land Contamination

- No environmental deficiency identified.

Appendix E

Monthly Waste Flow Table for December 2022

Appendix E1 Monthly Waste Flow Table for December 2022 (Civil Contractor)

Monthly Waste Flow Table for December 2022

Project: Civil Works for Re-Provision of Open Cycle Gas Turbine at Lamma Power Station

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2022

MM.YYYY	x	Act	ual Quantit	ties of Inert (C&D Materia	lls Generated	Monthly		Actu	al Quantitie	s of Non-ine	rt C&D Mat	erials Gen	erated Mor	rthly
	Excavated Materials				Non-	excavated Ma	aterials								0.
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)	(in '000kg
Jul 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2022	0.00	0.00		0.00		0.00		0.00		0.00		0.00			11.21
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.21

Total Inert C&D Waste Materials	Non-inert C&D Materials							
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste					
0.00 tonnes	0.00 tonnes	11.21 tonnes	0.00 tonnes					

- Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
 0.00
 tornes of inert C&D material

 were generated from the Project, of Which
 0.00
 connes were reused in this and other contracts, and the remaining
 0.00
 tornes were disposed as public fill to Fill Banks / Sorting Facilities.
 - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill
 - (c) 0 kg of metals 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

(d) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.

(1) metal, paper & plastic were collected by recycler
 (2) The performance target of waste recycling are specified in the Contract.
 (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
 (4) Plastics refer to plastic bottles' containers, plastic/ foam from packaging material.
 (5) Broken concrete for recycling into aggregates.
 (6) Disposal of inert waste to public till or sorting facilities will <u>NOT</u> be considered as recycled waste.

Notes:

Appendix E2 Monthly Waste Flow Table for December 2022 (E&M Contractor)

Monthly Waste Flow Table for December 2022

Project: C/N 22 23001 Lamma Reprovision of OCGT Demolition & Erection Work Contractor: Kum Shing Record by: Xavier Chan Year of Record: 2022

MM.YYYY	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of Non-inert C&D Materials Generated Monthly					hly		
	Exc	avated Mate	erials		Non	-excavated M	aterials		-						
	Disposed In Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1)&(4)	Chemical waste (wasted lubricant oil/oil container)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)	(in '000kg)
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Inert C&D Waste Materials	Non-inert C &D Materials						
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
0.00 tonnes	0.00 tonnes	0.00 tonnes	0.00 tonnes				

- Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
 0.00
 tonnes of inert C&D material

 were generated from the Project, of which
 0.00
 tonnes were reused in this and other contracts, and the remaining

 0.00
 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
 - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
 - (c) 0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
 - (d) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.

Notes: (1) metal, paper & plastic were collected by recycler

(2) The performance target of waste recycling are specified in the Contract.
(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.
(5) Broken concrete for recycling into aggregates.
(6) Disposal of inert waste to public fill or sorting facilities will <u>NOT</u> be considered as recycled waste.