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

September 2023

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 (September 2023)
Date	13 October 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 September 2023 and is the 15<sup>th</sup> 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:

- Propping erection works and preparation of coring;
- Pipe piling works;
- Scraped material removal works;
- Lifting and cut;
- Operation of crawler crane;
- Operation of cherry picker; and
- Take down the equipment and steel frame

#### **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 14/9/2023. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 25/9/2023. 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 Period		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,	481782	07/07/2022	-	EPD / Civil Contractor	07/07/2022

License/Permit	Ref. No.	Valid Period		Authority/Holder	Date Issued	
		From	То			
Air Pollution Control (Construction Dust) Regulation						
Construction Noise Permit	GW-RS0726- 23	22/08/2023	21/02/2024	EPD / Civil Contractor	18/08/2023	
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	2022 - EPD / E&M Contractor		05/12/2022	
Construction Noise Permit	GW-RS0258- 23	14/04/2023	13/10/2023	EPD / E&M Contractor	24/03/2023	

## **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 propping erection works and preparation of coring, pipe piling works, Heat Recovery Steam Generator (HRSG) 5 and Heat Recovery Steam Generator (HRSG) 7 demolition, GT5 and GT7 power train removal works, operation of crawler crane, operation of cherry picker and oil discharge.

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 14<sup>th</sup> monthly EM&A report which summarizes the environmental monitoring and audit work for the Project for the month of September 2023.

#### 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.	Propping erection works and preparation of coring	Air – All regulated machine attached with valid exception/ approval NRMM labels.
		Wastewater - No wastewater is required to be discharged at this moment.
		Noise – Works conducted during restricted hours should comply with the valid CNP.
		Waste Management <ul> <li>Scrape metal will be recycled.</li> </ul>
2.	Pipe piling works	<ul> <li>Air</li> <li>All regulated machine attached with valid exception/approval NRMM labels.</li> <li>Water spraying for concrete breaking works.</li> <li>Excavated material stockpile will be temporarily covered with canvas or transferred to temporary storage location for backfill later.</li> </ul>
		Wastewater – No wastewater is required to be discharged at this moment.
		<ul> <li>Noise</li> <li>Noise emission label was provided for air compressor</li> <li>Works conducted during restricted hours should comply with the valid CNP.</li> </ul>
		<ul> <li>Waste Management <ul> <li>Excavated material was temporary stored for backfilling later.</li> <li>Scrape metal will be recycled.</li> <li>Chemical waste should be collected by licensed collector.</li> </ul> </li> </ul>
E&M	Works - General	
3.	Scraped material removal works	Air – All regulated machine attached with exception/approval NRMM labels
		Noise <ul> <li>Works conducted during restricted hours should comply with the valid CNP.</li> </ul>
		Wastewater – No wastewater is required to be discharged for this moment.
		Waste Management <ul> <li>Scrap metal will be recycled.</li> </ul>

Item	Activities	Environmental Mitigation Measures
4.	Lifting and cut	<ul> <li>Air         <ul> <li>Fence off the working area to avoid dust emission.</li> </ul> </li> <li>Noise         <ul> <li>Works conducted during restricted hours should comply with the valid CNP.</li> </ul> </li> </ul>
		<ul> <li>Wastewater</li> <li>No wastewater is required to be discharge for this works.</li> <li>Waste Management</li> </ul>
		- Scrap metal will be recycled.
5.	Operation of crawler crane	Air – All regulated machine attached with valid exception/ approval NRMM labels.
		Noise – Works conducted during restricted hours should comply with the valid CNP.
		Wastewater – No wastewater is required to be discharged for this works.
		Waste Management – No waste will be generated.
6.	Operation of cherry picker	<ul> <li>Air</li> <li>All regulated machine attached with exception/approval NRMM labels.</li> </ul>
		Wastewater – No wastewater is required to be discharged for this works.
		<ul> <li>Noise         <ul> <li>No works will be conducted during restricted hours at this moment.</li> </ul> </li> </ul>
		Waste Management <ul> <li>No waste will be generated.</li> </ul>
7.	Take down the equipment and steel	<i>Air</i> – Fence off the working area to avoid dust emission.
	frame	Noise – Works conducted during restricted hours should comply with the valid CNP.
		Wastewater – No wastewater is required to be discharge for this works.
		Waste Management <ul> <li>Scrap metal will be recycled.</li> </ul>

## 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.

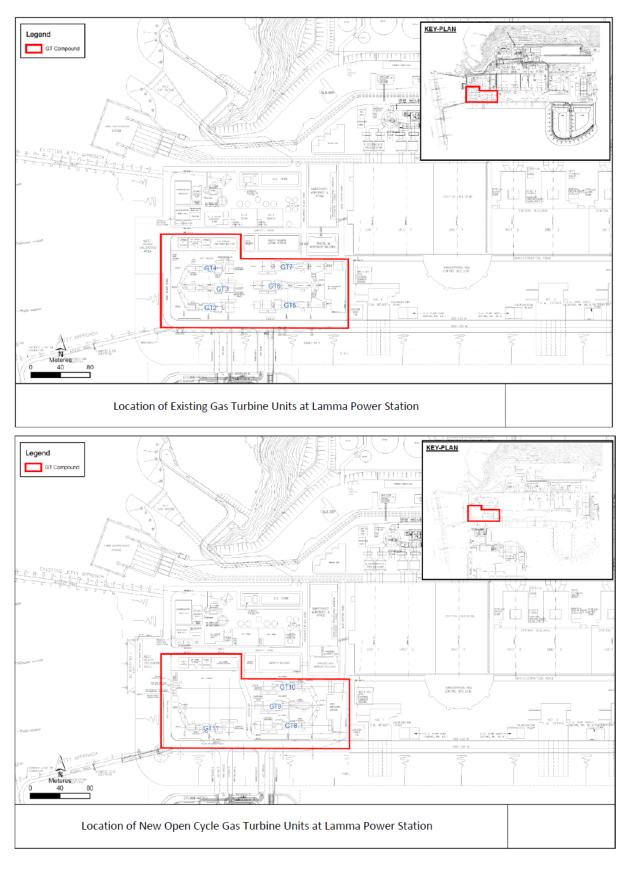


Figure 1.1 The Project Area

		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										<b>.</b>										
GT4	Decommissioning Demolition										To be	advised									
GT11	Construction Testing and Commissioning																				

Figure 1.2 Decommissioning and Construction Phasing Schedule

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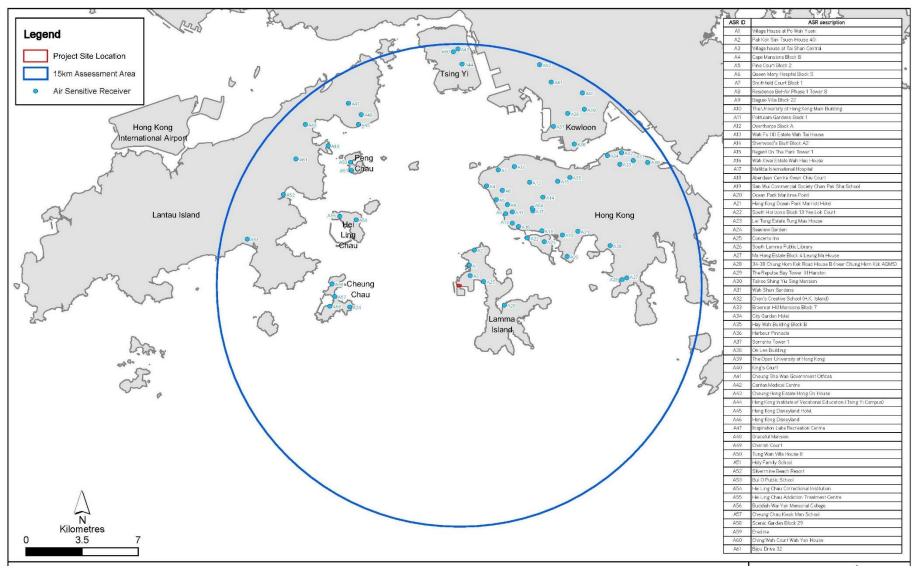


Figure 1.3 Locations of Air Sensitive Receivers within the 15km Assessment Area



Figure 1.4 Locations of Noise Sensitive Receivers

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Figure 1.5 Locations of Water Sensitive Receivers

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## 2. ENVIRONMENTAL AUDIT

## 2.1 Site Inspection

EPD officials from Regional Office (South) visited Lamma Power Station on 14/9/2023. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 25/9/2023. 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 September 2023 are summarised in Table 2.1.

License/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-RS0726- 23	22/08/2023	21/02/2024	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 Producer	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	Period	Description	Status
		From	То		
Construction Noise Permit	GW-RS0258- 23	14/04/2023	13/10/2023	E&M Work Operation of PME during restricted hours	Valid

## 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 September 2023 are summarized in Table 2.2.

 Table 2.2
 Estimated Quantities of Waste Generated in September 2023

	Non-inert C&D Materials						
Total Inert C&D Waste Materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
7.3 Tonnes	123.42 Tonnes	123.21 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. EPD's comments on the CAP were received on 20/12/2022 and a revised CAP was submitted to EPD on 13/1/2023. EPD's approval for the CAP was granted on 2/3/2023.

Site investigation work on Lube Oil Tank area (BH1) was started on 22/5/2023 and the samples obtained had been delivered to laboratory for further analysis. Laboratory test result has been received on 26/7/2023. While no contamination was identified in Lube Oil Tank area based on the test result, the corresponding Contamination Assessment Report was compiled and currently under internal review.

## 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 September 2023

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 September 2023

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

## 4. FUTURE KEY ISSUES

## 4.1 Construction Program for the Coming Month

The construction activities scheduled for the coming month are mainly propping erection works and preparation of coring, pipe piling works, Heat Recovery Steam Generator (HRSG) 5 and Heat Recovery Steam Generator (HRSG) 7 demolition, GT5 and GT7 power train removal works, operation of crawler crane, operation of cherry picker and oil discharge. (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.
- 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.

## 5. CONCLUSION

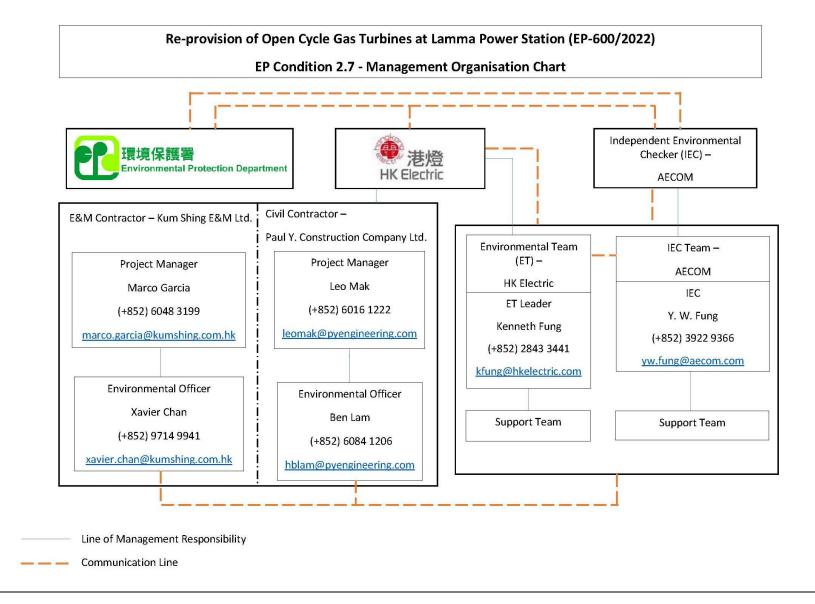
According to the EM&A Manual, environmental monitoring was not necessary in view of the anticipated insignificant environmental impact. Environmental audits were performed in accordance with the EM&A Manual.

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



)	Task Name	Duration	Start	Finish															
						Octob		0000	540	22/10	Novembe			1000		ember		0.000	. 1
1	Contract Date	1651 days	24/06/22	31/12/26	24/09	01	/10 0	08/10 1:	N10	22/10	29/10	05/11	12/11	19/11	26/11	03/12 10	V12 17/12	24/12	
2	Letter of Acceptance	0 days	24/06/22	24/06/22															
3	Commencement Date	0 days	01/07/22	01/07/22	-														
4	Full Mobilization	14 days	24/06/22	07/07/22	-														
5	Completion Date	0 days	31/12/26	31/12/26	-														
6	Schedule of Site Possession Date as per Clause PS.1.4.2		01/07/22	01/10/26	<u> </u>	_													_
7	Section A	394 days	03/10/22	01/11/23	<u> </u>	_													
8	A1: Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F	0 days	03/10/22	03/10/22							•								
9	A2: Demolition of existing pipe supporting rack at Amenity Building	0 days	23/05/23	23/05/23															
10	A3: Piling works, pile cap, plinth and Trench Construction Works at GT I/B Transformer Bay No. 3	0 days	01/11/23	01/11/23		+					• 01/11								
11	A4: Lamma 132-kV Switching Station & OCGT Equipment Building	0 days	14/07/23	14/07/23															
12	A5: Shelter, fencing and fire services installation work at GT I/B Transformer Bay No.3		01/09/23	01/09/23															
15	Section B	701 days	01/10/23	01/09/25	- · · ·														•
15	B1: BESS foundation works	0 days	01/01/24	01/01/24			0												
15	B2: Civil works for existing GT7(new GT10)	0 days	01/10/23	01/10/23	- •	01/1	0												
17	B3: Civil Works for existing GT5 (new GT8)	0 days	01/02/24	01/02/24	-														
	B4: Civil works for existing GT6 (new GT9)	0 days	01/09/25	01/09/25	_														
18	B5: Civil works for existing I/B Transformer Bay No. and Gas Turbine 132kV Switching Station		01/06/25	01/06/25															
19	Section C	1280 days	01/07/22	01/01/26															_
20	C1: Trenching works within Area A & H	0 days	01/07/22	01/07/22															
21	C2: Trenching works (excluding BESS-3) within Area		01/10/23	01/10/23	- I P	▶ 01/1	0												
22	C3: Trenching works within Area E	0 days	01/03/24	01/03/24															
23	C3: Trenching works within Area F	0 days	01/12/23	01/12/23											1 <sup>0</sup> 01	/12			
24	C4: Trenching works within Area G	0 days	01/04/25	01/04/25	- L														
25	C5: Trenching works within Area I	0 days	01/10/25	01/10/25	- L														
26	C6: Trenching works for BESS-3 within Area B	0 days	01/01/26	01/01/26															
27	Section D	578 days	01/01/23	01/08/24															_
28	D1: Trenching works within Area II	0 days	01/01/23	01/01/23															
29	D2: Trenching works within Area I	0 days	15/08/23	15/08/23															
30	D3: Trenching works within Area VIII	0 days	01/08/24	01/08/24	_ I														
31	Section E	1035 days	01/12/23	01/10/26											-				-
32	E1: Remove of sub-base, backfill, screening etc. for trenches within Area A to J at LPS and Area I to VIII a LMX	0 days it	01/12/23	01/12/23											♦ 01.	/12			
33	E2: Total completion for all remaining works	0 days	01/10/26	01/10/26															
34	Schedule of Completion Date as per Clause PS1.4.2	1532 days	21/10/22	31/12/26															_
35	Section A	1168 days	21/10/22	01/01/26															-
36	A1: Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F	0 days	21/10/22	21/10/22															
37	A2: Demolition of existing pipe supporting rack at Amenity Building	0 days	14/06/23	14/06/23															
30	A3: Piling works, pile cap, plinth and Trench Construction Works at GT I/B Transformer Bay No. 3	0 days	31/08/24	31/08/24															
ivil \	er Program of Contract No. 21-83005 Works for Reprovision of OCGT mma Island Power Station	ione 🔶		Summary 🗣 Manual Summary 🗣			rt-only iish-only	5		Critical Critical Split			Progress	-		,			

## Appendix B1 Tentative Decommissioning and Construction Programme (Civil Contractor)

n market		0	10		/orks for R	vepro	0415		OI al I	aiiiiia i	ower au	auon															0.1
D Task Na	me I	Duration	Start	Finish			ctober		_				Nover							Decer							Qtr 1, Januar
	4: Lamma 132-kV Switching Station & OCGT quipment Building	0 days	01/11/24	01/11/24	24/09	ŕ	01/1	0 08/1	0	5/10	22/10	2	9/10	05/1	1	12/11		19/11	26/		03/12	1	0/12	17/	12	24/12	31/1
40 A	5: Shelter, fencing and fire services installation works GT I/B Transformer Bay No.3	0 days	01/01/26	01/01/26																							
		669 days	30/04/24	28/02/26																							
		0 days	30/06/24	30/06/24		I 1																					
		0 days	30/04/24	30/04/24		I 1																					
		0 days 0 days	31/07/24	31/07/24		I 1																					
		0 days 0 days	28/02/26	28/02/26		I 1																					
46 B	5: Civil works for existing I/B Transformer Bay No. 20 d Gas Turbine 132kV Switching Station		28/02/26	28/02/26																							
		1080 days	16/07/23	30/06/26		-	-																				
		0 days	16/07/23	16/07/23	1 1		1																				
	2: Trenching works (excluding BESS-3) within Area 1		31/05/24	31/05/24	1 1		1																				
		0 days	31/08/24	31/08/24	1 1		1																				
		0 days	30/09/25	30/09/25	1 1		1																				
		0 days 0 days	31/03/26	31/03/26	1 1		Γ.																				
		0 days	30/06/26	30/06/26	1 1		1																				
-		519 days	30/06/23	30/11/24		-	-																				
		0 days	30/06/23	30/06/23		I 1																					
		0 days	15/01/24	15/01/24		I 1																					
		0 days	30/11/24	30/11/24		I 1																					
		0 days	31/12/26	31/12/26		I 1																					
59 El tre LN		0 days	31/12/26	31/12/26																							
60 E2		0 days	31/12/26	31/12/26		I 1																					
Specia	list Contractor as per Clause PS1.4.3 (Section B2 to	0 days	01/10/23	01/10/23		• 0	21/10																				
		46 days	01/02/24	17/03/24		I 1																					
		45 days	01/06/24	15/07/24		I 1																					
		46 days	01/01/26	15/02/26		I 1																					
		1081 days	16/03/23	28/02/26		-	-																				
		15 days	16/03/23	30/03/23		I 1																					
		16 days	16/07/24	31/07/24		I 1																					
		13 days	16/02/26	28/02/26		I 1																					
as per	former works by Employer's Specialist Contractor Clause PS1.4.3 (Section B5)		01/09/25	31/12/25																							
		122 days	01/09/25	31/12/25			Γ.																				
	al Preliminary and Technical Submission and Approva		24/06/22	18/01/25										_				_									
Subr	mission (Section A1 & Section A2)	7 days	24/06/22	30/06/22																							
App	hod Statement and Materials: Engineer's Review and roval (Section A1 & Section A2)		24/06/22	30/06/22																							
Subr	mission (Other Major Works)	28 days	01/07/22	28/07/22																							
App	hod Statement and Materials: Engineer's Review and roval (Other Major Works)		29/07/22	25/08/22																							
/0 Qua	lity Plan - Preparation & Submission	28 days	24/06/22	21/07/22	1		<u> </u>																				
civil Works fo	ram of Contract No. 21-83005 or Reprovision of OCGT and Power Station	ne 🗣		ummary 🛡 fanual Summary 🛡			Start Finis		5		Critical Critical §	Split				Progre	:85	-	_	_							

				Civil V		ontract No. 21-83 ovision of OCGT a		er Station						
	'ask Name	Duration	Start	Finish										Qtr 1,
					24/09	tober 01/10 08/10	15/10 22	/10 29/10		2/11 19/11	26/11 03/12	10/12 1	7/12 24/12	Janua 31/1
77	Quality Plan - Engineer's Review and Approval	28 days	22/07/22	18/08/22	2100	0010	1.910 22	23/10	0011 1 1		2011 0.012	10/12 1	112 2412	201
78	Health and Safety Plan - Preparation & Submission	28 days	24/06/22	21/07/22	1   /									
79	Health and Safety Plan - Engineer's Review and Approval	28 days	22/07/22	18/08/22	1   /									
80	Trenching Submission - Prepare and submit of Trenching work	28 days	24/06/22	21/07/22										
81	Trenching Submission - Approval of Trenching work	28 days	22/07/22	18/08/22	1									
82	ELS Design Submission - Preparation for Submission (Pile Cap)	28 days	24/06/22	21/07/22										
83	ELS Design Submission - Review & Approval (Pile Cap)	28 days	22/07/22	18/08/22	1									
84		28 days	23/11/24	21/12/24	1 11/									
85	FS installation - Engineer's Review and Approval	29 days	22/12/24	19/01/25	1 11/									
86		90 days	28/10/22	26/01/23	1									
87	Combined Services Drawings Approval by the Engineer	28 days	27/01/23	23/02/23	1						_			
88		90 days	31/01/23	30/04/23	1 11/						1			
89	BS Equipment Schedule Approval by the Engineer	28 days	02/05/23	29/05/23	<u>}</u> ₩/									
90 I		719 days	01/07/22	18/06/24	┍━━┿┙									_
91		30 days	01/07/22	30/07/22	] [[]						1			
92	BA19 Hoarding Permit Application (Phase II)	30 days	15/06/23	14/07/23	1 11/									
93	BA8 Application for Consent (Demolition Works) (Green Zone - ST5)	28 days	01/07/22	28/07/22	1									
94	BA8 Application for Consent (Demolition Works) (Cyan & Red Zone - GTAB & Turbo Block)	28 days	14/07/23	10/08/23	1									
95	BA10 Notice of Appointment of Registered Contractor (Demolition Works)	7 days	11/08/23	17/08/23	1									
96	BA14A Certificate on Completion of Demolition Works	27 days	22/12/23	17/01/24	1 11/								1	
97	BA8 Application for Consent (Piling works)	28 days	15/02/23	14/03/23	1 11/								Т	
98	BA14 Certificate on Completion of Building Works (Piling Works)	0 days	30/03/24	30/03/24	1									
99	BA8 Application for Consent (A&A Works)	28 days	15/08/23	11/09/23	1 11/									
100	BA8 Application for Consent (Pile Cap & Superstructure)	28 days	01/07/22	28/07/22	1						_		_	
101	BA10 Notice of Appointment of Registered Contractor (Pile Cap & Superstructure)	7 days	29/07/22	04/08/22							_			
102	BA14 Certificate on Completion of Building Works (Pile Cap & Superstructure)	0 days	17/12/24	17/12/24	1									
103	BA14 Certificate on Completion of Building Works (OCGT Equipment Building)	0 days	17/12/24	17/12/24										
		190 days	30/05/23	05/12/23							Ť			
		1645 days	01/07/22	31/12/26										_
109		110 days	29/07/23	15/11/23										
		48 days	01/07/22	17/08/22	. 11/						1			
111		14 days	01/07/22	14/07/22	_						1			
112		20 days	15/07/22	03/08/22							- <del> </del>			
113		14 days	04/08/22	17/08/22										
		1187 days	03/10/22	01/01/26										
115	A1: Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F		03/10/22	21/10/22										
116		4 days	03/10/22	06/10/22	- 11/									
117	Erection Scaffolding & Fence off	3 days	07/10/22	09/10/22										
Civil W	Program of Contract No. 21-83005 orks for Reprovision of OCGT ma Island Power Station	nc 🔶	2	Summary 🔍		Start-only C Finish-only 3		itical itical Split	P	rogress				
						Page 3								—

Task	s Name		Duration	Start	Finish	% Complete	Predecessors	2022 2023 2024	H1 H2 H1 H2 H1 H2	2027
Dee	provision of power pla	ant .	1532 days	Tue 22/08/30	Sat 27/01/02	35%		HI H2 HI H2	H1 H2 H1 H2 H1 H2	
								A 0200		
	Award of Contract		1 day	Tue 22/08/30	Tue 22/08/30	100%		<ul> <li>08/30</li> </ul>		
	Commencement of the	e Works	1 day	Thu 22/09/15	Thu 22/09/15	100%		<ul> <li>09/15</li> </ul>		
P	Pre-Mobilization		1 day	Fri 22/09/30	Fri 22/09/30	100%		• 09/30		
	Site Mobilization		1 day	Sat 22/10/15	Sat 22/10/15	100%		<ul> <li>10/15</li> </ul>		
						100%		<ul> <li>10/15</li> </ul>		
	Site Inspection & Docu		1 day	Sat 22/10/15	Sat 22/10/15			1015		
	Commercial Operation		1 day	Fri 25/08/01	Fri 25/08/01	0%	313		★ 06/01	
0	Commercial Operation	for GT9	1 day	Fri 27/01/01	Fri 27/01/01	0%	314			• 01/01
0	Commercial Operation	for GT10	1 day	Thu 25/05/01	Thu 25/05/01	0%	315		• 05/01	Т
	Pre-Work Stage		45 days	Sat 22/10/15	Wed 22/11/30	100%			1	
- 1								11/30		
	GT6 Outage for Pipir		45 days	Sat 22/10/15	Wed 22/11/30	100%				
	Stage 1 CW Intake O	Jutage for GT57 CW System Isolation	11 days	Fri 22/11/04	Tue 22/11/15	100%		11/15		
E	E&M Demolition Stage	,	1072 days	Tue 22/08/30	Fri 25/09/12	62%				
	Decomissioning of E		1 day	Mon 22/10/03	Mon 22/10/03	100%		10/03		
-						0%	204	1000	06/02	
-	Decomissioning of E		1 day	Sat 25/05/31	Mon 25/06/02	0.0	306		20002	
	Decomissioning of E		1 day	Mon 22/10/03	Mon 22/10/03	100%		<ul> <li>10/03</li> </ul>		
	Cable Diversion		246 days	Wed 22/10/19	Thu 23/06/29	100%				
	Diversion of now	er supply for 415V GRS Distribution Board 2 (include	15 days	Wed 22/10/19	Thu 22/11/03	100%				
		ladder installation)						T		
-				111-1 22 40 41 2	C-1 00 (10 0 // -	10001				
	Scaffolding Wo		4 days	Wed 22/10/19	Sat 22/10/22	100%		1		
	Cable Lying Wo	rk	6 days	Wed 22/10/26	Tue 22/11/01	100%	19FS+1 d.	6		
	Termination W	ork	2 days	Tue 22/11/01	Thu 22/11/03	100%	20	·		
			15 days	Wed 22/10/19	Thu 22/11/03	100%				
		ladder installation)				20070		T		
1						1.000				
	Scaffolding Wo		4 days	Wed 22/10/19	Sat 22/10/22	100%		1		
	Cable Lying Wo	rk	6 days	Wed 22/10/26	Tue 22/11/01	100%	23FS+1 d.	6		
	Termination W	ork	2 days	Wed 22/11/02	Thu 22/11/03	100%	24	· ·		
k l			6 days	Tue 22/10/25	Mon 22/10/31	100%				
-								Ī		
	Scaffolding Wo		2 days	Tue 22/10/25	Wed 22/10/26	100%				
	Cable Lying Wo	urik	2 days	Tue 22/10/25	Wed 22/10/26	100%		h.		
P.	Termination W	ark	2 days	Fri 22/10/28	Sat 22/10/29	100%	28	N I I I I I I I I I I I I I I I I I I I		
>			5 days	Sat 22/10/29	Fri 22/11/04	100%				
		SM3A Sump Pump "A" with supply of associated cable	Judys	301 22/10/23	11 22/11/04	10070		T I		
_		ting system (Waiting for Cable Delivery (lead time 5-6								
	Cable Lying Wo	rk	4 days	Sat 22/10/29	Thu 22/11/03	100%	29	6		
	Termination W	ark	1 day	Thu 22/11/03	Fri 22/11/04	100%	31	R. Contraction of the second s		
1			4 days	Fri 22/11/04	Tue 22/11/08	100%				
		SM5 Sump Pump "A", with supply of associated cable	4 Guys	111 22/22/04	100 22/22/00	10070		n		
4		ting system (Waiting for Cable Delivery (lead time 5-6						*		
5	Cable Lying Wo		3 days	Fri 22/11/04	Mon 22/11/07	100%	32	<u>1</u>		
	Termination W	ork	1 day	Mon 22/11/07	Tue 22/11/08	100%	34	1 <sup>-</sup>		
F	Diversion of power		4 days	Mon 22/11/07	Thu 22/11/10	100%				
		mp Pump, with supply of associated cable and cable	. Sale		any any av					
	supporting system									
	Cable Lying Wo	irk	3 days	Mon 22/11/07	Wed 22/11/09	100%		5		
8	Termination W	ork	1 day	Wed 22/11/09	Thu 22/11/10	100%	37	r		
2		er supply for DC230V Battery Charger and GT57 Lighting		Wed 22/10/26	Thu 22/10/27	100%				
		upply of associated cable and cable supporting system	- Sale		the and add FL			1		
5			2.4	Mile A Strategy in a large	The sector is a	4.0				
-	Termination W		2 days	Wed 22/10/26	Thu 22/10/27	100%				
1	Diversion of power	er supply for 6.6-kV GT Station Board 2 with associated	17 days	Sat 22/10/29	Wed 22/11/16	100%				
	6.6-kV cable joini	t box after de-commissioning of existing 6.6-kV GT57								
		d after power receiving of new 6.6-kV GT Station Board.								
1	Scaffolding Wo		8 days	Sat 22/10/29	Mon 22/11/07	100%				
1										
, I.	Junction Box In		3 days	Thu 22/11/03	Sat 22/11/05	100%				
	Cable Removal		7 days	Sat 22/11/05	Sat 22/11/12	100%	43	<u>6</u>		
	Termination W	ark	3 days	Sat 22/11/12	Wed 22/11/16	100%	44	r		
			229 days	Fri 22/11/04	Wed 23/06/28	100%				
1										
	Scaffolding Wo		3 days	Fri 22/11/04	Mon 22/11/07	100%				
	Cable Lying Wo	rk	6 days	Fri 22/11/04	Thu 22/11/10	100%		5		
۶.	Termination W	ork	2 days	Thu 22/11/10	Sat 22/11/12	100%	48	r		
-						1		1	11.1	
ect: KF	EM-OCGT_Reprovision	Task Project Summary		Marnal Task		Start-only	C	Deadline 🔶 Progress		
	er Programme R 8.4	Split Inactive Task		Duration-only		Finish-only	3	Baseline Manual P	ogress	
		Milestone   Milestone		Manual Summary Rollup		External Tasks		Baseline Milestone 🔷		
: 05-0	October'2023	Summary Inactive Summary	_	Manual Summary		External Milestone		Baseline Summary		
		inductive Statution y		conditions continuency		COLUMN CONTRACTOR	-			

Appendix B2Tentative Decommissioning and Construction Programme (E&M Contractor)

Task Narr	ne		Duration	Start	Finish	% Complete	Predecessors 2022	in 1	2023	2024	2025		2035	1	2027	
0	Rectification of	f Overhead Crane VSD, Busbar, Power	56 days	Tue 23/05/02	Wed 23/06/28	100%		81 82	HI	H2 H1	82	NO I	H2 H1	112		-
	RSG Demolition	overheid ernie vob, busbil, rower	471 days	Fri 22/11/04	Tue 24/03/05	61%										
	Demolition of HR	1567	347 days	Fri 22/11/04	Sat 23/10/28	83%				$\geq$						
3	100T Mobile C		0 days	Fri 22/11/04	Fri 22/11/04	100%			11/04							
4		ad Test on 100T Mobile Crane	3 days	Fri 22/11/04	Mon 22/11/07	100%	53		11/04							
3		rane Ready for Use	0 days	Mon 22/11/04	Mon 22/11/07 Mon 22/11/07	100%	54		11/07							
56							54		1007							
57		Crawler Crane	13 days	Thu 22/12/15	Wed 22/12/28	100%										
57		50T Crawler Crane	5 days	Fri 22/12/23	Wed 22/12/28	100%	56FF		12/28							
58		Crane Ready for Use	0 days	Wed 22/12/28	Wed 22/12/28	100%	57		• 12/28							
		side the HRSG enclosure	100 days	Wed 22/12/28	Mon 23/04/10	100%			Ţ							
60		ncers- EL +34400	4 days	Wed 22/12/28	Mon 23/01/02	100%	58		5							
61		e roofing deck and purlin	6 days	Mon 23/01/02	Sat 23/01/07	100%	60		5							
52	Scaffolding v	works	25 days	Sat 23/01/07	Thu 23/02/02	100%	61		÷1							
3	Removal the	e equipment and related facilities at HRSG	28 days	Thu 23/02/02	Fri 23/03/03	100%	62		i <b>≥</b> 1							
64	Remove the	cladding of HRSG enclosure	16 days	Fri 23/03/03	Sun 23/03/19	100%	63									
55	Removal of	HRSG sub frame	5 days	Mon 23/03/20	Sat 23/03/25	100%	64		5							
6		dismantle works	15 days	Sat 23/03/25	Mon 23/04/10	100%	65		1							
67		RSG Roof – above Hot Beam	100 days	Sat 23/01/07	Thu 23/04/20	100%										
8	Remove roo	of structure & cladding to allow access to Top of +24763 – EL +29300		Sat 23/01/07	Thu 23/04/20	100%	61		<u> </u>							
99			244 days	Man 22/02/12	Man 22/10/22	80%										
70		odules – Boiler Internal – 5 Stages	244 days	Mon 23/02/13	Mon 23/10/23					-						
71		Method Statement & Design Approval	154 days	Mon 23/02/13	Fri 23/07/21	100%										
		of steel frame	70 days	Tue 23/05/02	Thu 23/07/13	100%			_							
72		econdary beam structural frame	21 days	Fri 23/07/21	Sat 23/08/12	100%	70			1						
73		bottom steel panel block	14 days	Fri 23/07/21	Fri 23/08/04	100%										
74	HP /1RY - H T64,2 - EL +	IP / 2RY Eco – Cut and lower to ground level – To 13100	otal weight 11 days	Sat 23/08/12	Thu 23/08/24	30%	72									
5	HP Evap. 1/2 +15800	2 - Cut and lower to ground level – Total weight	T123 – EL 11 days	Thu 23/08/24	Tue 23/09/05	0%	74			1						
16		ind lower to ground level – Total weight T112 – F	FL +18100 10 days	Tue 23/09/05	Fri 23/09/15	0%	75			*						
77		and lower to ground level – Total weight T112 –		Fri 23/09/15	Mon 23/09/25	0%	76			2						
78		Cut and lower to ground level – Total weight TE2 –				0%	77			2						
9				Mon 23/09/25	Thu 23/10/05	0%	78			1						
80		Strand Jack System	10 days	Thu 23/10/05	Mon 23/10/16	0%				1 T+						
81		of Crawler Crane	7 days	Mon 23/10/16	Mon 23/10/23		79		-	1						
82		as outlet Duct (GT exhaust)	33 days	Thu 23/07/13	Wed 23/08/16	100%										
	- EL +1300	ng to remove side-bottom casing below HRSG 7 -		Thu 23/07/13	Fri 23/07/28	100%										
3		ng to remove duct between HRSG & Non Metalic oint – EL +1000 – EL+13000	9 days	Fri 23/07/28	Mon 23/08/07	100%	82									
84		n Metalic Expansion Joint	9 days	Mon 23/08/07	Wed 23/08/16	100%	83									
6	Removal of Ga	as Outlet Duct (HRSG exhaust)	20 days	Sun 23/10/01	Sat 23/10/21	85%				<b>@1</b>						
6		nd remove Gas Duct - part1 -6, - EL +26763 - EL	+29300 6 days	Sun 23/10/01	Sat 23/10/07	100%	84									
7		n-Metallic Expansion Joint & Support - EL+26763		Sat 23/10/07	Mon 23/10/16	100%	86			5						
8		Steel segment for Outlet Duct	6 days	Mon 23/10/16	Sat 23/10/21	50%	87			1 T						
79		RSG External platforms in controlled manner	46 days	Thu 23/08/03	Tue 23/09/19	21%										
0		hod Statement	20 days	Fri 23/07/14	Thu 23/08/03	60%				2						
1		tforms steel structures - EL +34400	6 days	Sat 23/08/12	Fri 23/08/18	0%	72			2						
2		Steam Drum - 32894(KG)	6 days	Fri 23/08/18	Fri 23/08/25	0%	91			2						
13		tforms steel structures – EL +29300	6 days	Fri 23/08/25	Thu 23/08/31	0%	92			2						
4						0%				2						
25		tforms steel structures – EL +27200	6 days	Thu 23/08/31	Wed 23/09/06	414	93			3						
15		Steam Drum – 7323(KG)	6 days	Wed 23/09/06	Wed 23/09/13	0%	94			3						
-		tforms steel structures - EL +24800	6 days	Wed 23/09/13	Tue 23/09/19	0%	95			3						
7	Demolition of HR		221.24 days	Thu 23/07/20	Tue 24/03/05	9%				$\geq$						
18	Preparation of		106.25 days	Thu 23/07/20	Tue 23/11/07	0%			(Etc.	>						
9	Mobile Cran	e on Site	0 days	Thu 23/07/20	Thu 23/07/20	100%			<u>•</u>	07/20						
00	Set Up and I	Load Test on Mobile Crane	0 days	Thu 23/07/20	Thu 23/07/20	100%	99			07/20						
01	Mobile Cran	e Ready for Use	0 days	Fri 23/07/28	Fri 23/07/28	100%	100			07/28						
02		50T Crawler Crane	14 days	Mon 23/10/23	Tue 23/11/07	0%	80			iii.						
03		er Crane Ready for Use	0 days	Tue 23/11/07	Tue 23/11/07	0%	102			▲11/07						
	NOT DE CONTRACTOR	Task Project Same	rsiry I	Marsal Task		Rart-only	C	Deadline		Progress		_				-
	OCGT_Reprovision	Split Inactive Task		Duration-only		inish-only	5	Baseline	-	Manual Progress		_				
	rogramme_R 8.4	Milestone		Manual Summary Rollup		tunst-only External Tasks		Baseline Milestor		Nanaa Phigicio						
ute: 05-Octol	ber'2023	Macsone Inactive Mac		Manual Summary Kollup Manual Summary		Isternal Milestone		Baseline Milestor								
		Juntary Inactive Sum	1111	madal summery	1	AND BE MERSING		Descript Solders	7							

Task Name	Provision			Duration	Start	Finish	% Complete	Predecessors 2022		2023	2034	2025		2036		2027
								- 10000033015 2022	HI H2	HI	H2 H1	82	ю	H2 H1	112	- H1 F
		de the HRSG enclosure		76 days	Tue 23/11/07	Wed 24/01/24	21%				Ţ.					
05	Remove siler	tcers- EL +34400		4 days	Tue 23/11/07	Fri 23/11/10	50%	103			5					
06	Take out the	roofing deck and purlin		6 days	Fri 23/11/10	Fri 23/11/17	20%	105			6					
07	Scaffolding w			20 days	Fri 23/11/17	Fri 23/12/08	50%	106			a constantino de la constant					
08		equipment and related facilities at H	IRSG	20 days	Fri 23/12/08	Thu 23/12/28	15%	107			<b>X</b> .					
09		IRSG sub frame	100	15 days	Thu 23/12/28	Sat 24/01/13	0%	108			1 T					
10																
		ismantle works		11 days	Sat 24/01/13	Wed 24/01/24	0%	109								
		SG Roof – above Hot Beam		26 days	Tue 23/11/07	Mon 23/12/04	20%				Ψ.					
12		structure & cladding to allow access 24763 – EL +29300	to Top of Hot	26 days	Tue 23/11/07	Mon 23/12/04	20%	103			-					
13	Removal of Mo	dules – Boiler Internal – 5 Stages		89 days	Mon 23/12/04	Tue 24/03/05	3%				<b></b>					
14		condary beam structural frame		21 days	Mon 23/12/04	Tue 23/12/26	0%	112			<b>.</b>					
15		bottom steel panel block		14 days	Tue 23/12/26	Tue 24/01/09	20%	114			<b>T</b> .					
16		/ 2RY Eco – Cut and lower to ground	level – Total weight		Tue 24/01/09	Mon 24/01/22	0%	115			*					
	T64,2 - EL +1	3100	-								Ţ.					
17		- Cut and lower to ground level - Tot			Mon 24/01/22	Fri 24/02/02	0%	116			1					
18	HP 2 - Cut an	nd lower to ground level – Total weig	ht T112 - EL +18100	10 days	Fri 24/02/02	Tue 24/02/13	0%	117			5					
19	LP 1/2 - Cut a	and lower to ground level – Total wei	ight T112 - EL +2035	(10 days	Tue 24/02/13	Fri 24/02/23	0%	118			5					
20	HP/L Eco - Co	ut and lower to ground level - Total v	weight T60 - EL +226	10 days	Fri 24/02/23	Tue 24/03/05	0%	119			1					
21		nd Jack System		10 days	Thu 24/02/01	Mon 24/02/12	0%	136			1					
		s outlet Duct (GT exhaust)		3 days	Tue 24/02/20	Thu 24/02/22	0%				1					
123			UDEC F. FL 1000				0%	129								
	- EL +1300	g to remove side-bottom casing below			Tue 24/02/20	Wed 24/02/21					l 1					
24		g to remove duct between HRSG & N int – EL +1000 – EL+13000	ion Metalic	1 day	Wed 24/02/21	Wed 24/02/21	0%	123								
25	Remove Non	Metalic Expansion Joint		1 day	Wed 24/02/21	Thu 24/02/22	0%	124								
26		outlet Duct (HRSG exhaust)		18 days	Thu 24/02/01	Tue 24/02/20	0%				n					
27		d remove Gas Duct - part1 -6, - EL +2	26763 - FL +29300	10 days	Thu 24/02/01	Mon 24/02/12	0%	136								
28		-Metallic Expansion Joint & Support -			Mon 24/02/12	Wed 24/02/12	0%	127								
29			· EL+26/65 - EL+29													
		teel segment for Outlet Duct		5 days	Wed 24/02/14	Tue 24/02/20	0%	128								
30		SG External platforms in controlled r	manner	36 days	Tue 23/12/26	Thu 24/02/01	0%				<u> </u>					
31	Remove plat	forms steel structures - EL +34400		6 days	Tue 23/12/26	Mon 24/01/01	0%	114			6					
32	Remove HP 5	iteam Drum - 32894(KG)		6 days	Mon 24/01/01	Sat 24/01/06	0%	131			6					
33	Remove plat	forms steel structures - EL +29300		6 days	Sat 24/01/06	Sat 24/01/13	0%	132			R.					
34		forms steel structures - EL +27200		6 days	Sat 24/01/13	Fri 24/01/19	0%	133			Ť.					
35		team Drum - 7323(KG)		6 days	Fri 24/01/19	Thu 24/01/25	0%	134			1					
36											3					
		forms steel structures – EL +24800		6 days	Thu 24/01/25	Thu 24/02/01	0%	135								
ocur	T Demolition	-		905 days	Sat 23/02/18	Fri 25/09/12	24%									
	molition of GT			207 days	Sat 23/02/18	Wed 23/09/20	67%									
		d Test on 300T Mobile Crane		3 days	Mon 23/02/20	Wed 23/02/22	100%			2						
40 3	300T Mobile Cr	ane Ready for Use		0 days	Wed 23/02/22	Wed 23/02/22	100%	139		02/22						
41 1	Dismantle of air	r cooling fan		11 days	Sat 23/02/18	Wed 23/03/15	100%	140		6.6						
		let air filter and intake air silencer by	300T mobile crane	21 days	Mon 23/03/27	Mon 23/04/17	100%	141		1						
		od Statement for Concrete Beam		10 days	Fri 23/07/14	Mon 23/07/24	100%									
		approval of Gantry crane design + M	fethod Statement	52 days	Mon 23/05/22	Fri 23/07/14	100%			_						
							0.544									
		oncrete Beam Curing + Test Report		10 days	Fri 23/07/14	Tue 23/07/25	95%	144			Baar					
	Set Up Mobile (			21 days	Tue 23/07/25	Tue 23/08/15	90%	145			908/15					
	Load Test on Ga	antry Crane		5 days	Mon 23/08/14	Fri 23/08/18	0%	146FF			5					
48 4	Gantry Crane Re	eady for Use		0 days	Tue 23/08/22	Tue 23/08/22	0%	145FS+28			06/22					
49		Pipe and Associated Equipment from	n transfomer	10 days	Mon 23/07/17	Wed 23/07/26	100%	142		1	1					
	Asbestos Remo			21 days	Wed 23/07/26	Thu 23/08/17	60%	149			1					
		he transfomer from GT Foundation to	o the Transporter	6 days	Wed 23/08/23	Tue 23/08/29	0%				2					
								140								
		Pipe and Associated Equipment from		12 days	Wed 23/08/23	Mon 23/09/04	0%	148			B					
		he Generator from GT Foundation to		6 days	Mon 23/09/04	Sat 23/09/09	0%	152								
		Pipe and Associated Equipment from		13 days	Mon 23/09/11	Sat 23/09/23	0%	153			<b>*</b>					
55	Lift and Move t	he Gas Turbine from GT Foundation t	to the Transporter	6 days	Sat 23/09/23	Fri 23/09/29	0%	154			*					
56	Dismantle and I	Removal of Gantry Crane System		14 days	Fri 23/09/29	Sat 23/10/14	0%	151,153,1								
	molition of GTS			187 days	Wed 23/08/23	Mon 24/03/04	9%				<b>K</b>					
toject: KEM-OCG	T Parenician	Task	Project Summary		Manual Task		Start-only	C	Deadline		Progress		_			
		Split			Duration-only		Finish-only	3	Baseline		Manual Progress		_			
ISP-Master_Progra		Milestone •	Inactive Milestone		Manual Summary Rollup		External Tasks	-	Baseline Milesto							
ute: 05-October'	2023	Sammary	Inactive Surrenary		Manual Summary		External Milestone	•	Baseline Surrey							
			- Sector Concerning y		contraction of the set											

Task Na	ame		Duration	Start	Finish	% Complete	Predecessors 2022		2023		2034	2025		112	.035		2027	1
58	Set I in and Los	d Test on Mobile Crane	3 days	Wed 23/08/23	Fri 23/08/25	100%	147	HI H2	HI	H2	HI	H2 H		112	HI	112	HI	H
59	Mobile Crane		0 days	Fri 23/08/25	Fri 23/08/25	100%	158			× 08/25								
60	Dismantle of a		6 days	Fri 23/08/25	Thu 23/08/31	100%	159			2002								
61		let air filter and intake air silencer by 100T mobile crane		Fri 23/09/01	Thu 23/09/21	75%	160											
62										2								
163	Scaffold Erecti	on wal work (Turbine coating)	10 days	Thu 23/09/21	Mon 23/10/02	0%	161			2								
164			21 days	Mon 23/10/02	Tue 23/10/24		162			2								
165		h Erection Works + Curing + Test Report	17 days	Wed 23/08/23	Sat 23/09/09	0%	155				11/04							
166	Set Up Mobile		20 days	Sat 23/10/14	Sat 23/11/04	0%	156			1	11/04							
1667	Load Test on G		5 days	Sat 23/11/04	Thu 23/11/09	0%	165											
	Gantry Crane F		0 days	Thu 23/11/09	Thu 23/11/09	0%	166			1	11/09							
168		Pipe and Associated Equipment from transfomer	10 days	Thu 23/11/09	Mon 23/11/20	0%	167											
69		the transfomer from GT Foundation to the Transporter	5 days	Mon 23/11/20	Fri 23/11/24	0%	168				1							
170		Pipe and Associated Equipment from Generator	14 days	Fri 23/11/24	Sat 23/12/09	0%	169				5							
171		the Generator from GT Foundation to the Transporter	12 days	Sat 23/12/09	Thu 23/12/21	0%	170				1							
172	Disconnect the	Pipe and Associated Equipment from Gas Turbine	14 days	Sat 23/12/09	Sat 23/12/23	0%	170				<u>h</u>							
73	Lift and Move	the Gas Turbine from GT Foundation to the Transporter	12 days	Sat 23/12/23	Fri 24/01/05	0%	172				1							
74	Disconnect the	Pipe and Associated Equipment from Gas Exhaust Duct	14 days	Sat 23/12/23	Mon 24/01/08	0%	172				<b>-</b>							
75	Lift and Move	the Gas Exhaust Duct to the Transporter	24 days	Mon 24/01/08	Thu 24/02/01	0%	174											
76	Dismantle and	Removal of Gantry Crane	30 days	Thu 24/02/01	Mon 24/03/04	0%	175											
177	Use the SPMT	to Transport the Equipment to Designated Storage Area	30 days	Thu 24/02/01	Mon 24/03/04	0%	175				<b>1</b>							
178	Demolition of G1		128 days	Thu 25/05/01	Wed 25/09/10	0%								-				
179		d Test on 100T Mobile Crane	3 days	Thu 25/05/01	Sat 25/05/03	0%							b					
180		rane Ready for Use	0 days	Sat 25/05/03	Sat 25/05/03	0%	179						05/0					
81	Dismantle of a		6 days	Thu 25/05/01	Wed 25/05/07	0%	115											
82		let air filter and intake air silencer by mobile crane	20 days	Wed 25/05/07	Wed 25/05/28	0%	181						2					
183	Scaffold Erecti			Wed 25/05/28	Fri 25/06/06	0%	182						T#					
84			10 days										2					
85		val work (Turbine coating)	28 days	Sat 25/05/07	Sat 25/07/05	0%	183						÷.					
86	Set Up Mobile		14 days	Wed 25/05/28	Wed 25/06/11	0%	182						1					
80	Load Test on G		5 days	Fri 25/06/06	Wed 25/06/11	0%	185FF						1					
87	Gantry Crane F		0 days	Wed 25/06/11	Wed 25/06/11	0%	186						\$ 00	/11				
		Pipe and Associated Equipment from Generator	14 days	Wed 25/06/11	Wed 25/06/25	0%	187,15						1					
189		the Generator from GT Foundation to the Transporter	12 days	Thu 25/06/26	Tue 25/07/08	0%	188						11					
190	Disconnect the	Pipe and Associated Equipment from Gas Turbine	14 days	Thu 25/06/26	Thu 25/07/10	0%	188						1					
191	Lift and Move	the Gas Turbine from GT Foundation to the Transporter	12 days	Thu 25/07/10	Wed 25/07/23	0%	190											
92	Disconnect the	Pipe and Associated Equipment from Gas Exhaust Duct	14 days	Thu 25/07/10	Thu 25/07/24	0%	190						1					
193	Lift and Move	the Gas Exhaust Duct to the Transporter	16 days	Thu 25/07/24	Mon 25/08/11	0%	192							h				
194	Dismantle and	Removal of Other E&M Equipment	30 days	Mon 25/08/11	Wed 25/09/10	0%	193							1				
95	Use the SPMT	to Transport the Equipment to Designated Storage Area	30 days	Mon 25/08/11	Wed 25/09/10	025	193							<b>*</b> .				
96 (	GTAB Plant Equipm		376 days	Tue 22/08/30	Fri 23/09/22	97%												
197	Cable Diversion		37 days	Tue 22/08/30	Thu 22/10/06	100%		-										
198	Dismantle of Au Receiver and Rel	illiary Equipment from GTAB Pump set, Cooler, Air ated Pipe Work	116 days	Fri 22/10/21	Sat 23/02/18	100%												
99	Fence off work		2 days	Fri 22/10/21	Sat 22/10/22	100%	5FS+5 day	1										
100		power supply from each equipment	1 day	Mon 22/10/24	Mon 22/10/24	100%	199	1										
201		d plates and isolate valves for isolation with the system	2 days	Tue 22/10/25	Wed 22/10/26	100%	200		-									
	before disman		r onys	100 221 20123		1000												
202		all the steam / gas / water - HKE to support	5 days	Thu 22/10/27	Wed 22/11/02	100%	201FS+1 (	1										
N03	Pump Set and		5 days 8 days	Thu 22/10/27 Thu 22/11/03	Fri 22/11/11	100%	20165+17		ż									
104									*									
05		auxiliary piping and tubing	12 days	Sat 22/11/12	Fri 22/11/25	100%	203		1									
106		ment from baseplate by using fork lift	7 days	Mon 22/11/28	Mon 22/12/05	100%	204		7									
106		ment from GTAB to designated storage area	7 days	Tue 22/12/06	Tue 22/12/13	100%	205		7									
N07 N08		caffold / use scissor lift to access pipework inside GTAB	5.75 days	Tue 22/12/13	Wed 22/12/28	100%	206		÷									
		and pipe support by removing all fixing bolt and hanger	50 days	Thu 22/12/29	Sat 23/02/18	100%	207											
109		er, Dryer and Pipework Removal	35 days	Mon 22/11/14	Tue 22/12/20	100%												
10		ework from air compressor	5 days	Mon 22/11/14	Fri 22/11/18	100%	208FS-10	4	H)									
211		d plates and isolate valves for isolation with the system	3 days	Sat 22/11/19	Tue 22/11/22	100%	210		5									
	before disman								1									
212	Drain and vent	all the steam/ gas/ water to ensure no harness	6 days	Wed 22/11/23	Tue 22/11/29	100%	211		5									
213	Remove all con	npressed air pipe and support inside GTAB	8 days	Wed 22/11/30	Thu 22/12/08	100%	212		5									
			-															
miect: KEM	-OCGT_Reprovision	Task Project Summary		Marnal Task		Start-only	C	Deadline	+	1	rogness							
	Programme_R 8.4	Split Inactive Task		Duration-only		Finish-only	3	Baseline			Ianual Progress							
	ober'2023	Milestone   Milestone		Manual Summary Rollup		External Tasks		Baseline Milest	one $\diamond$									
		Summary Inactive Summary	-	Manual Summary		Esternal Milestone		Baseline Surner										

Task Name	Provision	Duration	Start	Finish	% Complete	Predecessors 2022	3011		3034		2015	3036		3607	
						81	H2 H1	82	H1	82	2025 H1	H2 H	11 H2	HI	1
	Using Gantry crane to secure the air receiver/air filter/air dryer a undo the anchor bolt	and 5 days	Fri 22/12/09	Wed 22/12/14	100%	213	1								
15	Relocated air receiver/air filter/air dryer outside GTAB and trans equipment to designated storage area by crane lorry	port all 5 days	Wed 22/12/14	Mon 22/12/19	100%	214	<i>*</i>								
	ink / Drum Removal (Deaerator, 250 crawler crane)	20 days	Fri 23/09/01	Thu 23/09/21	0%			100							
	Removal cladding and insulation from drums, pipework and Dea		Fri 23/09/01	Mon 23/09/04	0%	145		2							
	Disconnect steam pipe from Drums, Deaerator	17 days	Mon 23/09/04	Thu 23/09/21	0%	217		2							
	eam Turbine Removal - 89.3T	236 days	Tue 22/08/30	Sat 23/04/29	100%			1							
	Decommissioning of GTAB	0 days	Tue 22/08/30	Tue 22/08/30	100%		<ul> <li>08/30</li> </ul>								
	Energize overhead crane inside GTAB and carry out Load test and		Tue 22/08/30	Thu 22/09/08	100%	220	Z								
	RPE approval						1								
	Unbolt Steam turbine acoustic enclosure and hook up eye bolt w overhead crane		Thu 22/09/08	Mon 22/09/12	100%	221	1								
	Lift the acoustic enclosure then unload to unloading area on top SPMT and relocate to designated storage area	of 2 days	Mon 22/09/12	Wed 22/09/14	100%	222	·								
	Remove top half of Bearing support from Bearing No.1, and coup connected to Generator	pling 2 days	Wed 23/02/01	Thu 23/02/02	100%	223	1								
	Erect scaffold and dismantle connection between steam turbine	and Con 3 days	Thu 23/02/02	Mon 23/02/06	100%	224	<b>*</b>								
	Undo the anchor bolt from stream turbine support frame	31 days	Mon 23/02/06	Thu 23/03/09	100%	225	<b>*</b>								
	Repair of gantry hoist	20 days	Fri 23/03/10	Wed 23/03/29	100%	226	1	_							
	Secure steam turbine by lifting eye to overhead crane	20 days 20 days	Sat 23/04/01	Fri 23/04/21	100%	220		6							
29	Relocate steam turbine unit to east side jetty and remove from I Island		Fri 23/04/21	Sat 23/04/29	100%	228		7							
	enerator Removal - 193T	136 days	Mon 23/01/02	Mon 23/05/22	100%			-							
Ge	Method Statement Approval				100%			_							
-		129 days	Mon 23/01/02	Mon 23/05/15	100%	229									
	Check if all electrical connections disconnected and de energized		Tue 23/03/07	Tue 23/03/07			4								
1	Temporary install platform to cover the opening after steam turk Erect scaffold at the side of Generator and remove the Generato		Tue 23/03/07 Tue 23/03/07	Tue 23/03/07 Tue 23/03/07	100%	232 232	÷								
	Cooling water pipe						1								
	Hook up overhead crane lifting gear to the Generator enclosure		Thu 23/03/09	Thu 23/03/09	100%	234	5								
6	Dismantle contactor, exciter, and brush	3 days	Fri 23/03/10	Mon 23/03/13	100%	235	5								
7	Remove Bearing top cover from both side of Generator	1 day	Mon 23/03/13	Mon 23/03/13	100%	236	1								
8	Remove the Hydrogen seal and oil deflector upper half on both e	end 3 days	Mon 23/03/13	Wed 23/03/15	100%	236	5								
19	Dismantle Generator end cover on both side	1 day	Fri 23/03/17	Fri 23/03/17	100%	238	(* C)								
0	Install rotor jacking device on both sides to lift the rotor slightly	1 day	Fri 23/03/17	Fri 23/03/17	100%		1								
11	Disassemble lower half Front and rear bearing	1 day	Sat 23/03/18	Sat 23/03/18	100%	240	5								
12	Remove the Hydrogen seal and oil deflector lower half on both e	end 2 days	Sun 23/03/19	Mon 23/03/20	100%	241	5								
3	Loose fan nozzle ring	1 day	Wed 23/03/22	Wed 23/03/22	100%	242	F								
14	Setup rotor support and remove rotor	1 day	Sat 23/05/20	Sat 23/05/20	100%	243		1							
	Remove the rotor from stator and transport to the temporary su on the North side	upport 1 day	Mon 23/05/22	Mon 23/05/22	100%	227		T							
	enerator Removal Work	57 days	Wed 23/05/03	Fri 23/06/30	100%										
	Preparation for rotor removal	3 days	Wed 23/05/03	Fri 23/05/05	100%			<b>b</b>							
-	Removal of bearing pesdestal	1 day	Sat 23/05/06	Sat 23/05/06	100%	247		5							
	Pull out rotor and temporary stored on second floor	1 day	Sat 23/06/03	Mon 23/06/05	100%	270		*							
	Removal of two end cover plates and accessories	4 days	Tue 23/05/16	Fri 23/05/19	100%	2.70									
	Method statement approval	1 day	Wed 23/05/24	Wed 23/05/24	100%	271		05/24							
	Removal of stator winding	11 days	Wed 23/05/24	Sat 23/06/03	100%	251FS-1.1									
	Flame cut the stator frame	2 days	Sat 23/06/03	Mon 23/06/05	100%	252FS-2.2		+							
			Mon 23/06/05	Tue 23/06/05	100%	23253-2.2									
	Removal of copper plates	22 days				25.4		1 t							
	Lift stator to unloading bay	1 day	Wed 23/06/28	Wed 23/06/28	100%	254		1							
	Lift the support base frame	1 day	Thu 23/06/29	Thu 23/06/29				+							
	Second floor site clearance	1 day	Fri 23/06/30	Fri 23/05/30	100%	255		<u></u>							
Ins	ajor Lifting and Transporation arrangment	56 days	Wed 23/05/03	Thu 23/06/29	100%										
	HP top casing lift to flat lorry	2 days	Wed 23/05/03	Thu 23/05/04	100%			7							
	HP lower casing lift to flat lorry	2 days	Fri 23/05/05	Sat 23/05/06	100%	259		1							
	LP lower casing lift to second floor for tempoary storage	2 days	Mon 23/05/08	Tue 23/05/09	100%	260		1							
	SPMT arrive site (1st shift)	7 days	Tue 23/05/16	Tue 23/05/23	100%	261		4							
	ST shaft lift to SPMT	1 day	Tue 23/05/23	Wed 23/05/24	100%	262		4							
64	LP top casing lift to SPMT	1 day	Wed 23/05/24	Thu 23/05/25	100%	263		M							
oject: KEM-OCG		ry I	1 Manual Task		Start-only	5	Deadline 🔶		Progress Manual Progress						
SP-Master_Progra			Dustion-only		Finish-only	3	Biscine		Manual Progress						
ute: 05-October'	*2023 Milestone  Inactive Milestone Inactive Milestone Inactive Summary Inactive Summary		Manual Summary Rollup 11 Manual Summary		External Tasks External Milestone		Baseline Milestone Baseline Summary								
	Surreacy Inactive Surreac	aty	Numual Summary		nournal Milestone		noseline Summary								

265	Name		 Duration	Start	Finish	% Complete	Predecessors 2022		1623	0 117 - 20	2024	26 60	2025	11 STERN 2	036	1 1922 1	2027	Sec. 202
	LP lower casing		1280 Ch. Ch.	Thu 23/05/25	Fri 23/05/26	100%	264	111 112		HI H	111	HZ	.10	HZ	.10	.112	HI	
266			1 day							1								
250	Generator Rote		1 day	Fri 23/05/26	Sat 23/05/27	100%	265											
268		site (2nd phase)	2 days	Tue 23/06/27	Wed 23/06/28	100%	-											
269	Generator Stat	or lift to SPMT	1 day	Tue 23/06/27	Wed 23/06/28	100%				2-								
259	SPMT off site		1 day	Thu 23/06/29	Thu 23/06/29	100%	268											
	Condenser Remo		73 days	Tue 23/05/02	Sat 23/07/15	100%	248			r i								
271		nent approval (Phase 1 & 2)	1 day	Tue 23/05/23	Tue 23/05/23	100%				<ul> <li>05/23</li> </ul>								
272	Removal of Wa	ater Chamber (west)	19 days	Tue 23/05/02	Thu 23/05/25	100%				-2								
173.	Removal of Tu	be Plate 1	13 days	Tue 23/05/23	Thu 23/06/08	100%	272FS+1_			4								
174	Removal of Tul	be Plate 2	14 days	Tue 23/05/23	Fri 23/06/09	100%	272F5+1.			1								
75	Removal of Tu	be Plate 3	24 days	Tue 23/05/30	Fri 23/06/23	100%												
76	Removal of Tul	be Plate 4	26 days	Tue 23/05/30	Mon 23/06/26	100%				-								
237	Removal of up	per Skirt of Condenser	40 days	Mon 23/05/15	Sat 23/06/24	100%												
78.	Core drilling	of the condenser Upper Part	40 days	Mon 23/05/15	Sat 23/06/24	100%												
179		working platform	12 days	Mon 23/05/22	Fri 23/06/02	100%				*								
180		ternal structure (Upper skirt shell)	6 days	Fri 23/06/23	Fri 23/06/30	100%												
281	Layer 1	terner scherence (opper suite sneit)	2 days	Fri 23/06/23	Mon 23/06/26	100%	278F5-1.1			*								
182	Layer 2		2 days	Sat 23/06/24	Tue 23/06/27	100%	281F5-1.1			*								
183	Layer 3		2 days 2 days	Mon 23/06/26	Wed 23/06/28	100%	281FS-1.1 282FS-1.1			*								
184	Layer 3			Tue 23/06/27		100%	282F5-1.1 283F5-1.1			*								
165			2 days		Thu 23/06/29					+								
186	Layer S		2 days	Wed 23/06/28	Fri 23/06/30	100%	284FS-1.1											
280		wer part of Condenser (North)	22 days	Sat 23/06/17	Mon 23/07/10	100%	-											
287		of Titanium Tubes	22 days	Sat 23/06/17	Mon 23/07/10	100%				1								
288		baffie plate 2-4	4 days	Thu 23/06/29	Tue 23/07/04	100%	285F5-1.1			1 - C								
		baffle of plate 6-9	3 days	Mon 23/07/03	Thu 23/07/06	100%	288F5-1.1			1								
50		baffle plate 11-13	3 days	Wed 23/07/05	Fri 23/07/07	100%	289FS-1.1											
191	Removal of lov	wer part of Condenser (South)	8 days	Thu 23/06/08	Fri 23/06/16	100%												
92	Removal of	baffle plate 1-5	3 days	Thu 23/06/08	Sat 23/06/10	100%	285F5-1.1			98,								
193	Removal of	baffle plate 6-10	3 days	Mon 23/06/12	Wed 23/06/14	100%	292FS-1.1			tota .								
294	Removal of	baffle plate 11-15	2 days	Wed 23/06/14	Thu 23/06/15	100%	293F5-1.1			5								
295	Removal of co	ndenser's base plate	44 days	Wed 23/05/31	Sat 23/07/15	100%				-								
296	Method stat	tement approval (Phase 3)	1 day	Wed 23/05/31	Wed 23/05/31	100%				<ul> <li>05/31</li> </ul>								
297	Removal of		37 days	Thu 23/05/08	5at 23/07/15	100%	290,294			3344								
298	Demolition of GTAE		41 days	Thu 23/07/20	Thu 23/08/31	0%	LUGALUT			-								
299	Civil Work Stage		1245 days	Tue 22/08/30	Wed 26/03/11	0%		-						-	-			
300	Anchor Bolt Replace	mant for CTR	175 days	Mon 24/03/04	Sat 24/08/31	0%	177			(F)		-			- C			
301	Anchor Bolt Replace		175 days	Wed 25/09/10	Wed 26/03/11	0%	195							*	-			
302	Anchor Bolt Replace		175 days	Tue 22/08/30	Tue 23/02/28	0%	195	-										
903	GTAB Modification		467 days	Tue 22/08/30	Tue 23/12/26	0%		-										
			1451 days	Tue 22/08/30	Sat 26/10/10	6%						_			_	_		
305	New OCGT Erection St						_		10/28						-			
306	Construction Site Pr	eparation	58 days	Tue 22/08/30	Fri 22/10/28	80%			10420			+						
307:	OCGT8 Installation		263 days	Sat 24/08/31	Sat 25/05/31	0%	300						- 1		+			
	OCGT9 Installation		206 days	Wed 26/03/11	Sat 26/10/10	0%	301		*						192			
306	OCGT10 Installation		205 days	Tue 23/02/28	Wed 23/09/27	0%	302		(£)(t)							1		
909	Testing & Commission		733 days	Mon 24/12/02	Thu 26/12/31	0%	1000						-					
910	Power Receiving for		146 days	Sat 25/03/01	Wed 25/07/30	0%	306						*					
311	Power Receiving for		116 days	Tue 26/09/01	Wed 26/12/30	0%	307						1 10			Per		
112	Power Receiving for	GT10	145 days	Mon 24/12/02	Wed 25/04/30	0%	308											
313	Synchronization for	GT8	30 days	Tue 25/07/01	Thu 25/07/31	0%	310						- 4	Name -				
314	Synchronization for		30 days	Tue 26/12/01	Thu 26/12/31	0%	311									-	6. L	
315	Synchronization for	GT10	29 days	Tue 25/04/01	Wed 25/04/30	0%	312						-					

## Appendix C Summary of EMIS

Table C.1	Mitigation Measures and their Implementation in the Reporting Month	
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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.	Complied
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
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.	Complied		
	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.	Not 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.	Not applicable at this stage		
EM&A: S4	Appropriate surface drainage will be designed and provided, where necessary.	Not 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.	Not 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.	Not 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.	Not 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.	Not 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	<ul> <li>Containers used for storage of chemical wastes will:</li> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.</li> </ul>	Complied
EM&A: S5	<ul> <li>The storage area for chemical wastes will:</li> <li>Be clearly labelled and used solely for the storage of chemical waste;</li> <li>Be enclosed on at least 3 sides;</li> <li>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;</li> <li>Have adequate ventilation;</li> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>Be arranged so that incompatible materials are appropriately separated.</li> </ul>	Complied
EM&A: S5	Chemical waste will be disposed of: • Via a licensed chemical waste collector; and	Complied

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.	Not 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.	Not 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.	Complied
EM&A: S6	Soil and groundwater sampling works will be supervised by a Land Contamination Specialist.	Complied
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	<ul> <li>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:</li> <li>Regular visual inspections to detect any early signs of fuel leakage prior to demolition;</li> <li>Provision of impermeable lining or absorbent materials to contain leaks;</li> <li>Provision of secondary containment for the temporary storage of removed diesel or petroleum products, demolished structures and pipes; and</li> <li>Provision of spill control materials and equipment</li> </ul>	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: 04/09/2023, 12/09/2023, 19/09/2023 and 25/09/2023

## 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: 05/09/2023, 12/09/2023, 19/09/2023, 25/09/2023 and 26/09/2023

## 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 September 2023

#### Appendix E1 Monthly Waste Flow Table for September 2023 (Civil Contractor)

#### Monthly Waste Flow Table for September 2023

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, 2023

MM.YYYYY		Actu	ual Quantit	ies of Inert (	C&D Materia	Is Generated	Monthly		Actual Quantities of Non-inert C&D Materials Generated Monthly						
	Exca	avated Mate	erials	Non-excavated Materials											
	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	Metais (steel bar / metai strip) <sup>(1)</sup>	Metals (aluminum can) <sup>(1)</sup>	Paper / cardboard packaging <sup>(1)</sup>	Plastics (1)=(0)	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.21
Jan 2023	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	2.72
Feb 2023	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	6.32
Mar 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00	0.00	0.00
Apr 2023	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	7.37
May 2023	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	5.07
Jun 2023	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	4.09
Jul 2023	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	5.87
Aug 2023	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	41.53
Sep 2023	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	5.10
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00	0.00	89.28

Total Inert C&D Waste Mate	rials	Non-Inert C&D Materials							
Generated		C&D Materials Recycled	Chemical Waste						
0.00 tonnes		6.26 tonnes	89.28 tonnes	0.00 tonnes					

Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, <u>0.00</u> tonnes of inert C&D material were generated from the Project, of which <u>0.00</u> tonnes were reused in this and other contracts, and the remaining <u>0.00</u> 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 Landtill.

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 NOT be considered as recycled waste.

#### Appendix E2 Monthly Waste Flow Table for September 2023 (E&M Contractor)

#### Monthly Waste Flow Table for September 2023

Project:	C/N 22 23001 Lamma Reprovision of OCGT Demolition & Erection Work
Contractor:	Kum Shing
Record by:	Chris Cheng
Year of Record:	2023

MM.YYYY			uantities of	Inert C&D		ALCO DE LOUIS A DE LOS ALES			Actu	al Quantiti	es of Non-	inert C&D	Materials G	Generated Mo	onthly
	Exca	avated Mate	erials	1	Non	-excavated	Materials								
	Disposed in Public Fill	Disposed in Sorting Facilities	the	Broken Concrete or Constructi on Waste Collected by Recycled Company	the	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar/ metal strip)	Metals (aluminum can)	Paper / cardboard packaging		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-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-23	0	0	0	0	0	0	0	0	103.24	0	0	0	36	0	19.53
Feb-23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66.53
Mar-23	0	0	0	0	0	0	0	0	150.45	0	0	0	0	0	63.12
Apr-23	0	0	0	0	0	0	0	9.05	26.19	0	0	0	41.8	0	93.29
May-23	0	0	0	0	0	0	0	0	0	0	0	0	30	0	54.68
Jun-23	0	0	0	0	0	0	0	5.8	0	0	0	0	13.4	0	133.69
Jul-23	0	0	0	0	0	0	0	0	72.51	0	0	0	0	13.65	226.02
Aug-23	0	0	0	0	0	0	0	0	42.14	0	0	0	0	0	191.82
Sep-23	0	0	0	0	0	0	0	7.3	123.42	0	0	0	0	0	110.81
Total	0	0	0	0	0	0	0	22.15	517.95	0	0	0	121.2	13.65	959.49

Total Inert C&D Waste Materials	Non-inert C&D Materials								
Generated	C&D Materials Recycled	C&D Waste Disposed of at	Chemical Waste						
22.15 tonnes	517.95 tonnes	959.49 tonnes	121.20 kilo litre	13.65	tonnes				

Where

(A) Inert C&D materials include bricks, concrete, building debris, rubble and In total, <u>22.15</u> tonnes of inert C&D material were generated from the Project, of which <u>0.00</u> tonnes were reused in this and other contracts, and the remaining 22.15 tonnes were disposed as public fill to Fill Banks/Sorting

(B) Non-inert C&D materials (construction wastes) include matels, 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 fills.

(C) 517950 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 waste were disposed of at landfill.

Notes:

(1) Metal, paper & plastic were collected by recycler.

(2) The performance target of waste recycling are specified in

(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 materials.

(5) Broken concrete for recycling into aggregrates.

(6) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.