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 2024

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

港燈
HK Electric

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 (August 2024)
Date	16 September 2024
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 2024 and is the 27th 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:

- Construction of brick wall in GTAB;
- Trenching works;
- Scraped material removal works;
- Lifting and cut;
- Operation of crawler crane;
- Operation of cherry picker;
- Take down the equipment and steel frame;
- Discharge oil

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

Independent Environmental Checker (IEC) conducted a site inspection on 25/9/2024. 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	To		
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	481782	07/07/2022	-	EPD / Civil Contractor	07/07/2022

License/Permit	Ref. No.	Valid Period		Authority/Holder	Date Issued
		From	To		
Dust) Regulation					
Construction Noise Permit	GW-RS0911-24	2/10/2024	31/03/2025	EPD / Civil Contractor	30/9/2024
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
Construction Noise Permit	GW-RS0408-24	22/05/2024	21/11/2024	EPD / E&M Contractor	03/05/2024
WPCO Discharge Licence	WT10001647-2023	29/11/2023	30/11/2028	EPD / Civil Contractor	29/11/2023

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, trenching works, scraped material removal works, lifting and cut, 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.
- Wastewater should be properly treated in sedimentation pit and tanks before discharge in compliance with the WPCO discharge licence already obtained.
- 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 27th monthly EM&A report which summarizes the environmental monitoring and audit work for the Project for the month of September 2024.

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. The locations of air, noise and water sensitive receivers are shown in Figure 1.2, Figure 1.3 and Figure 1.4 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 Works - General		

Item	Activities	Environmental Mitigation Measures
1.	Construction of brick wall in GTAB and Trenching works	*Air* – All regulated machine attached with valid exception/ approval NRMM labels. – Water spraying for concrete breaking works. – Concrete debris will be covered while pending to removal. – Material in dump truck will be covered during transfer. *Wastewater* – Reuse treated wastewater, no wastewater discharged at this moment. – Geotextile and sand bag barriers were set up as preventive measures at gully. *Noise* – Noise emission label was provided for air compressor. – Works conducted during restricted hours should comply with the valid CNP. *Waste Management* – Scrape metal will be recycled. – Concrete debris was removed to temporary storage location pending for disposal. – Chemical waste should be collected by licensed collector.
E&M Works - General		
2.	Scraped material removal works	*Air* – All regulated machine attached with exception/approval NRMM labels. *Noise* – No works will be conducted during restricted hours at this moment. *Wastewater* – No wastewater is required to be discharged for this works. *Waste Management* – Scrap metal will be recycled.
3.	Lifting and cut	*Air* – 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 discharge for this works. *Waste Management* – Scrap metal will be recycled.

Item	Activities	Environmental Mitigation Measures
4.	Operation of crawler crane	*Air* – All regulated machine attached with exception/ approval NRMM labels. *Noise* – No works will be conducted during restricted hours at this moment. *Wastewater* – No wastewater is required to be discharged for this works. *Waste Management* – No waste will be generated.
5.	Operation of cherry picker	*Air* – All regulated machine attached with exception/approval NRMM labels. *Wastewater* – No wastewater is required to be discharged for this works. *Noise* – No works will be conducted during restricted hours at this moment. *Waste Management* – No waste will be generated.
6.	Take down the equipment and steel frame	*Air* – 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 discharge for this works. *Waste Management* – Scrap metal will be recycled.
7.	Discharge oil	*Air* – Fence off the working area to avoid dust emission. *Noise* – No works will be conducted during restricted hours at this moment. *Wastewater* – setup the nylon sheet on ground. *Waste Management* – Oil would be handled by specific chemical waste disposal

Item	Activities	Environmental Mitigation Measures
		company.

1.4 Summary of EM&A Requirements

Impact Monitoring

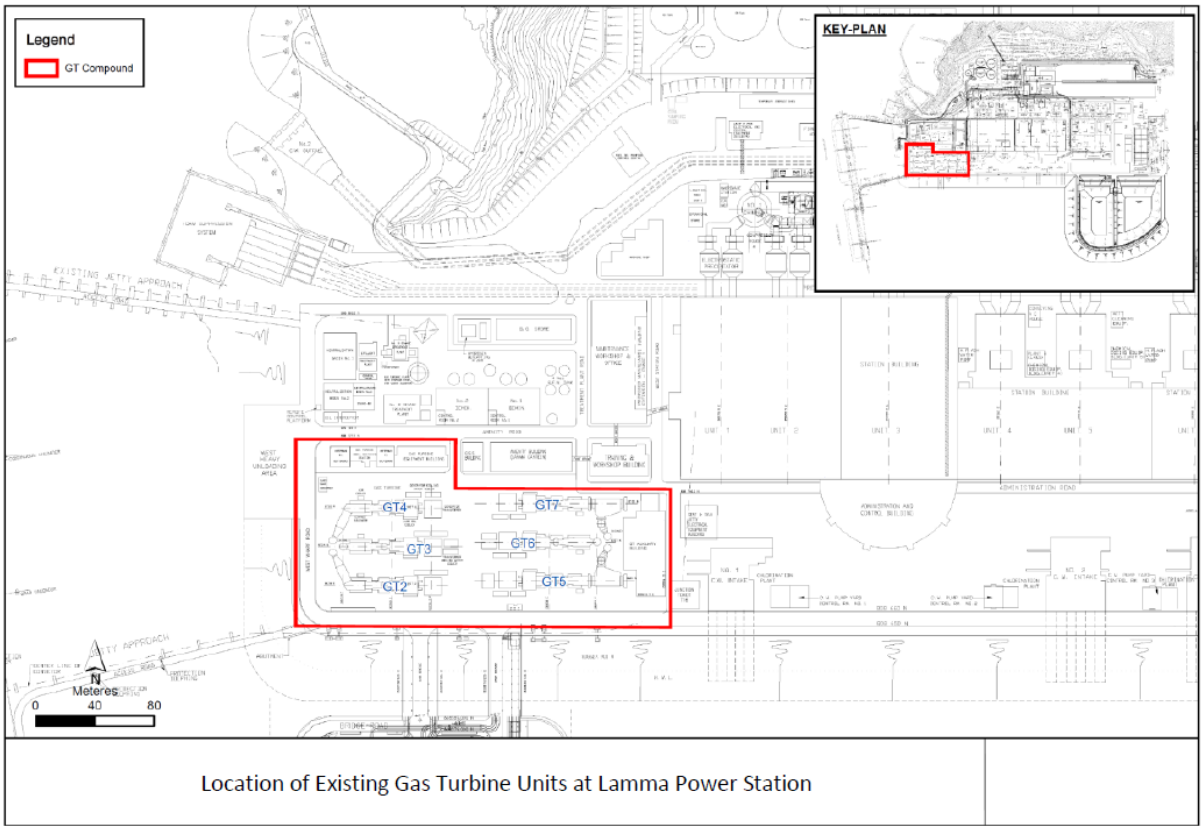
According to the EM&A Manual, no routine impact monitoring for air quality, noise and water quality is necessary in view of the anticipated insignificant environmental impact.

Environmental Audit

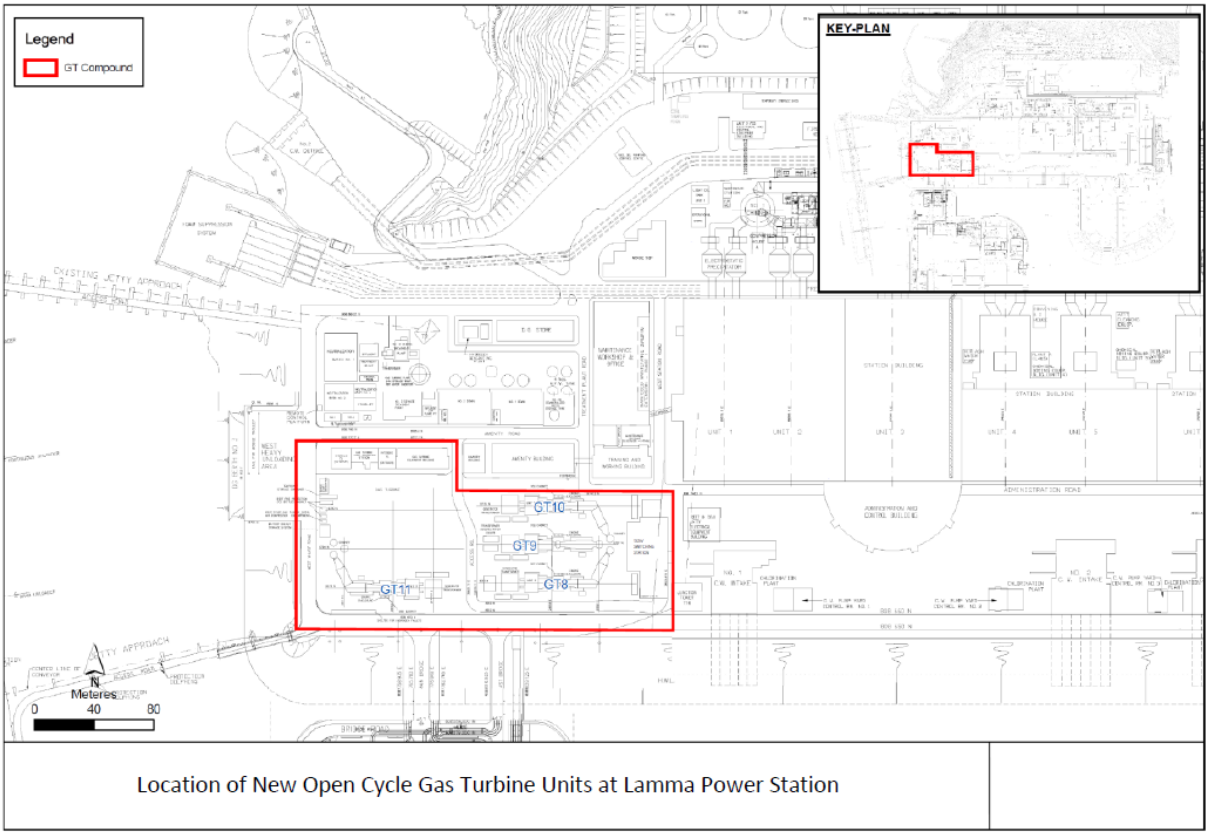
Regular environmental audits on air quality, noise, water quality, waste management, and land contamination are required. Details of the audits are summarized in Section 2 of this report.

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.

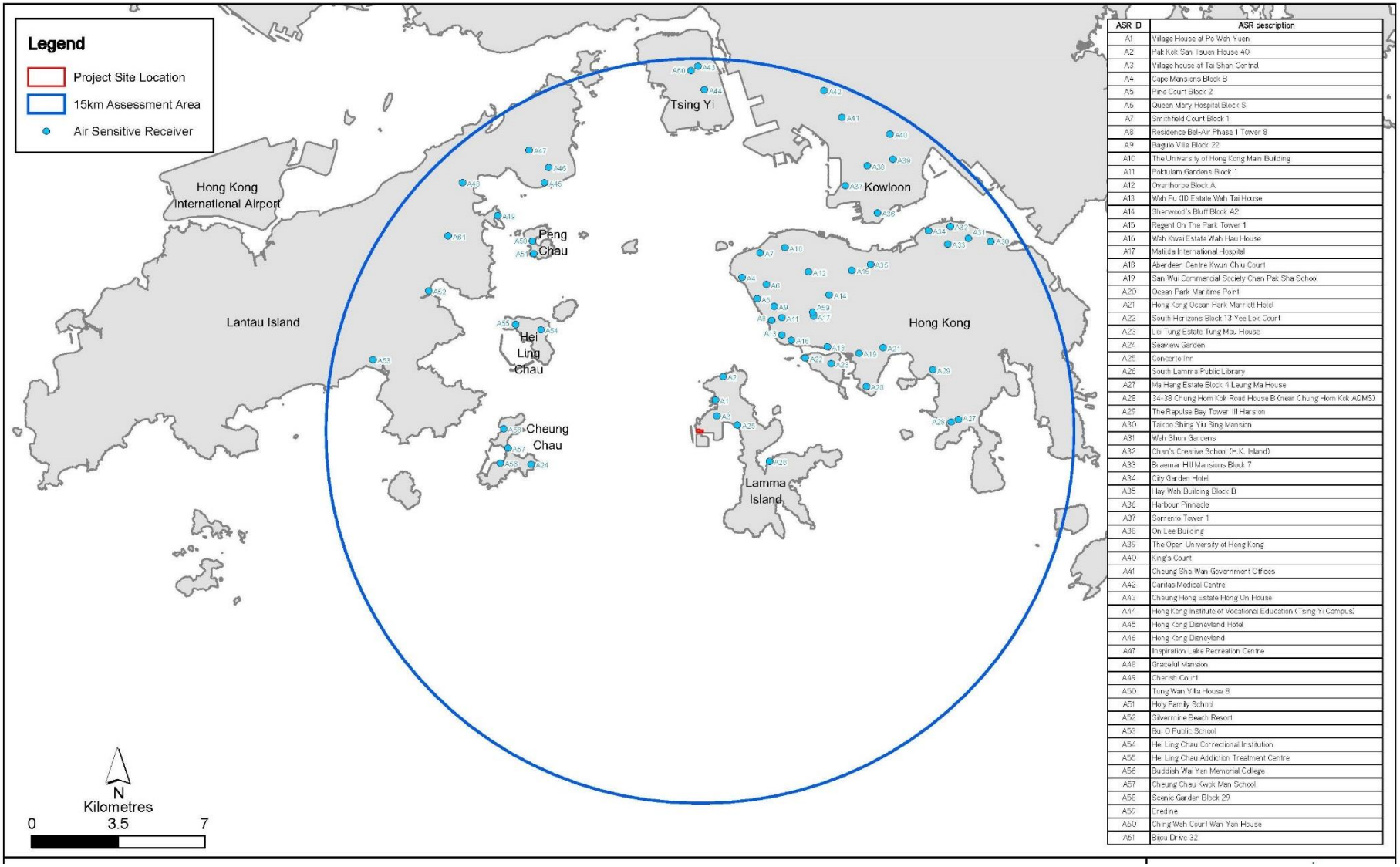


Location of Existing Gas Turbine Units at Lamma Power Station



Location of New Open Cycle Gas Turbine Units at Lamma Power Station

Figure 1.1 The Project Area



ASR ID	ASR description
A1	Village House at Po Wah Yuen
A2	Pak Kok San Tsuen House 40
A3	Village house at Tai Shan Central
A4	Cape Mansions Block B
A5	Pine Court Block 2
A6	Queen Mary Hospital Block S
A7	Smithfield Court Block 1
A8	Residence Bel-Air Phase 1 Tower 8
A9	Baguio Villa Block 22
A10	The University of Hong Kong Main Building
A11	Pokfulam Gardens Block 1
A12	Overthorpe Block A
A13	Wah Fu (II) Estate Wah Tai House
A14	Sherwood's Bluff Block A2
A15	Regent On The Park Tower 1
A16	Wah Kwai Estate Wah Hau House
A17	Matilda International Hospital
A18	Aberdeen Centre Kwun Chiu Court
A19	San Wui Commercial Society Chan Pak Sha School
A20	Ocean Park Maritime Point
A21	Hong Kong Ocean Park Marriott Hotel
A22	South Horizons Block 13 Yee Lok Court
A23	Lei Tung Estate Tung Mau House
A24	Seaview Garden
A25	Concerto Inn
A26	South Lamma Public Library
A27	Ma Hang Estate Block 4 Leung Ma House
A28	34-38 Chung Hom Kok Road House B (near Chung Hom Kok AGMS)
A29	The Repulse Bay Tower III Harston
A30	Taikoo Shing Yiu Sing Mansion
A31	Wah Shun Gardens
A32	Chan's Creative School (HK Island)
A33	Braemar Hill Mansions Block 7
A34	City Garden Hotel
A35	Hay Wah Building Block B
A36	Harbour Pinnacle
A37	Sorrento Tower 1
A38	On Lee Building
A39	The Open University of Hong Kong
A40	King's Court
A41	Cheung Sha Wan Government Offices
A42	Caritas Medical Centre
A43	Cheung Hong Estate Hong On House
A44	Hong Kong Institute of Vocational Education (Tsing Yi Campus)
A45	Hong Kong Disneyland Hotel
A46	Hong Kong Disneyland
A47	Inspiration Lake Recreation Centre
A48	Graceful Mansion
A49	Cherish Court
A50	Tung Wan Villa House 8
A51	Holy Family School
A52	Silvermine Beach Resort
A53	Bui O Public School
A54	Hei Ling Chau Correctional Institution
A55	Hei Ling Chau Addiction Treatment Centre
A56	Buddish Wai Yan Memorial College
A57	Cheung Chau Kwok Man School
A58	Scenic Garden Block 29
A59	Eredine
A60	Ching Wah Court Wah Yan House
A61	Bijou Drive 32

Figure 1.2 Locations of Air Sensitive Receivers within the 15km Assessment Area

Figure 1.3 Locations of Noise Sensitive Receivers

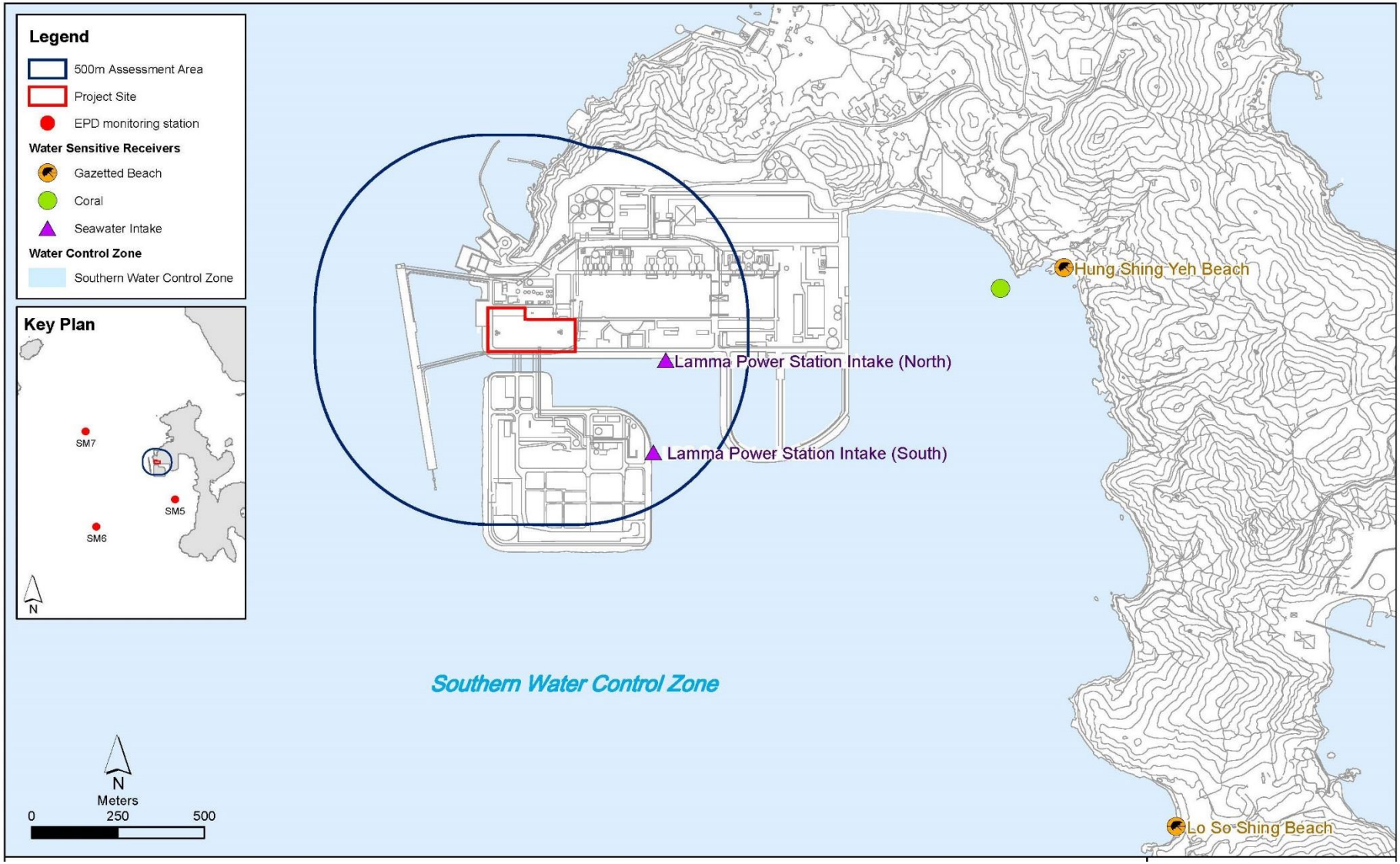


Figure 1.4 Locations of Water Sensitive Receivers

2. ENVIRONMENTAL AUDIT

2.1 Site Inspection

Independent Environmental Checker (IEC) conducted a site inspection on 25/9/2024. 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 2024 are summarised in Table 2.1.

Table 2.1 Status of Environmental Licensing and Permitting

License/Permit	Ref. No.	Valid Period		Description	Status
		From	To		
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-RS0911-24	2/10/2024	31/3/2025	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
Construction Noise Permit	GW-RS0408-24	22/5/2024	21/11/2024	E&M Work Operation of PME during restricted hours	Valid

License/Permit	Ref. No.	Valid Period		Description	Status
		From	To		
WPCO Discharge Licence#	WT10001647-2023	29/11/2023	30/11/2028	Civil Work	Valid

Note: # - Water quality monitoring was carried out in September 2024 and the results of which would be reported separately by the contractor.

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 2024 are summarized in Table 2.2.

Table 2.2 Estimated Quantities of Waste Generated in September 2024

Total Inert C&D Waste Materials	Non-inert C&D Materials		
	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
0 Tonnes	0 Tonnes	50.79 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 2024

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 2024

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 trenching works, scraped material removal works, lifting and cut, 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.
- Wastewater should be properly treated in sedimentation pit and tanks before discharge in compliance with the WPCO discharge licence already obtained.
- 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

- 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

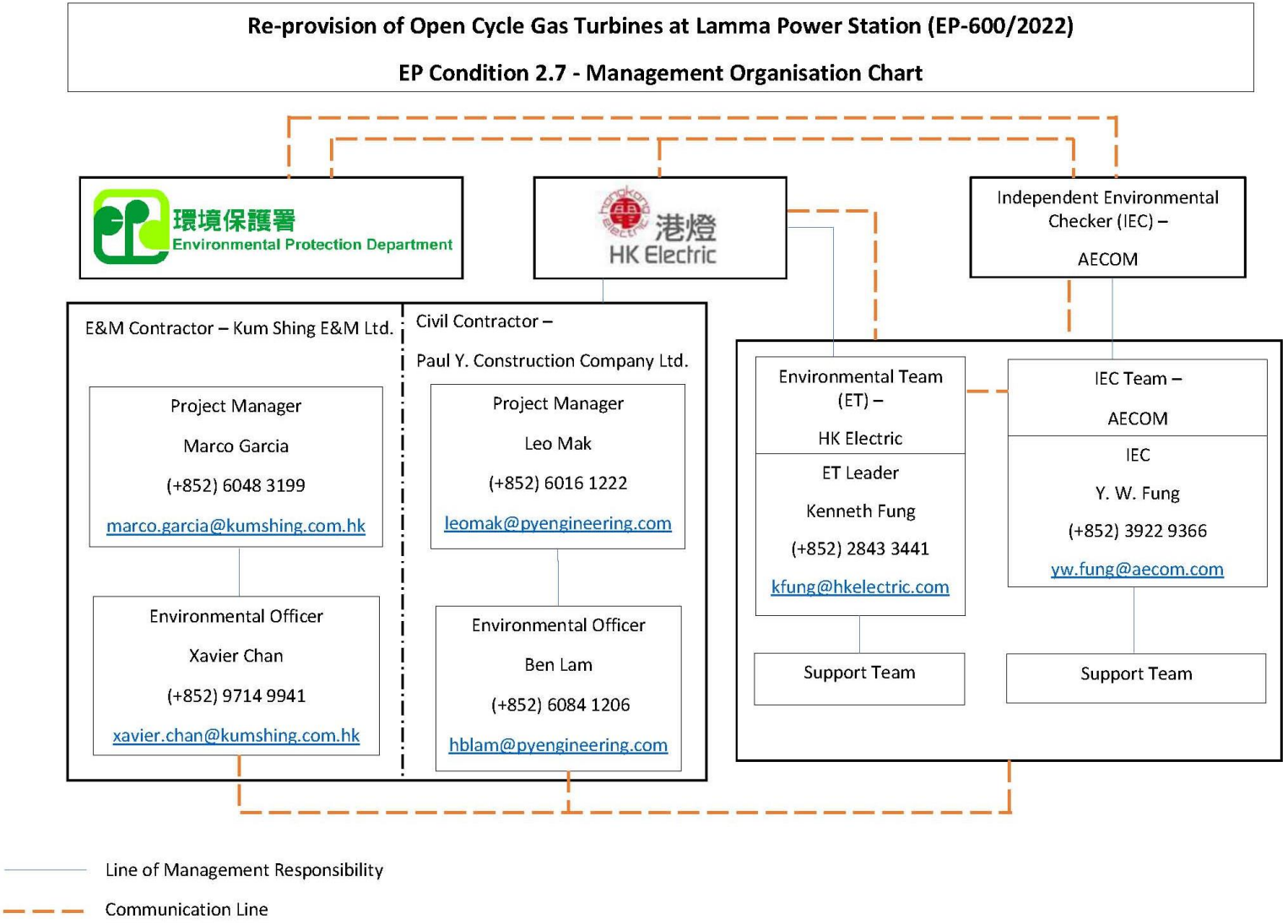
According to the EM&A Manual, environmental monitoring was not necessary in view of the anticipated insignificant environmental impact. Environmental audits were performed in accordance with the EM&A Manual.

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



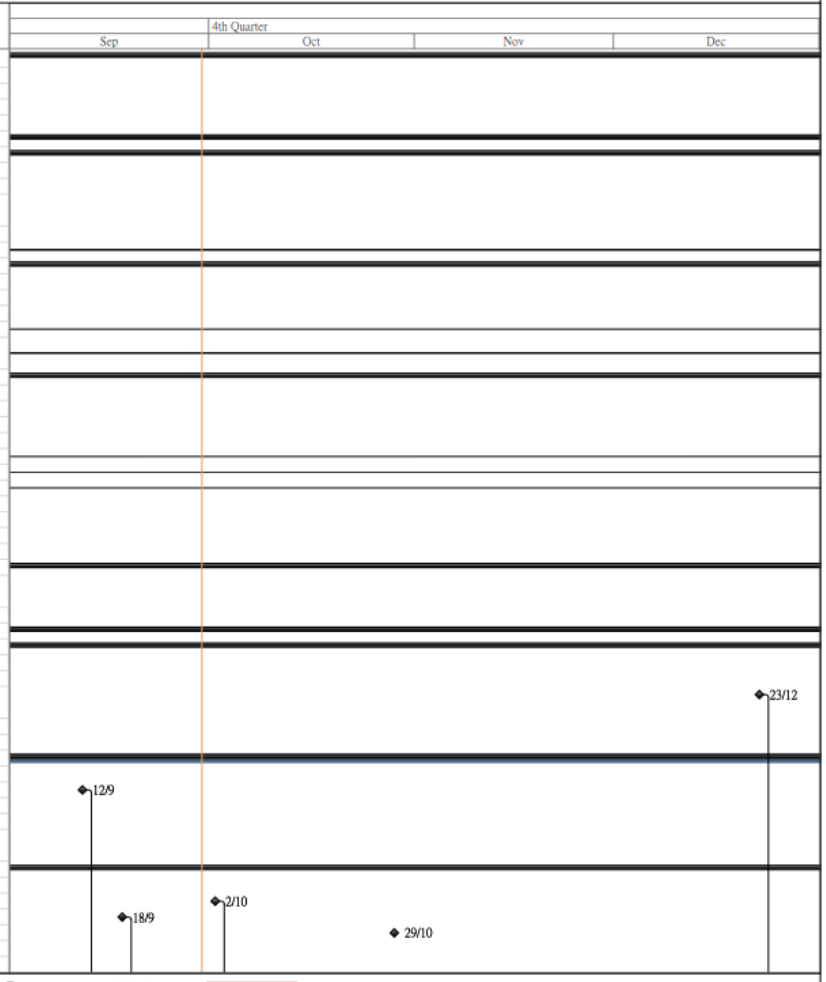
Appendix B1

Tentative Decommissioning and Construction Programme

(Civil Contractor)

Contract No. 21-83005
Civil Works for Reprovision of OCGT at Lamma Power Station

ID	Task Name	Duration	Start	Finish
1	**Contract Date**	1651 days	Fri 24/6/22	Thu 31/12/26
2	Letter of Acceptance	0 days	Fri 24/6/22	Fri 24/6/22
3	Commencement Date	0 days	Fri 1/7/22	Fri 1/7/22
4	Full Mobilization	14 days	Fri 24/6/22	Thu 7/7/22
5	Completion Date	0 days	Thu 31/12/26	Thu 31/12/26
6	Schedule of Site Possession Date as per Clause PS.1.4.2	1553 days	Fri 1/7/22	Thu 1/10/26
7	Section A	987 days	Mon 3/10/22	Mon 16/6/25
8	A1: Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F	0 days	Mon 3/10/22	Mon 3/10/22
9	A2: Demolition of existing pipe supporting rack at Amenity Building	0 days	Tue 23/5/23	Tue 23/5/23
10	A3: Piling works, pile cap, plinth and Trench Construction Works at GT I/B Transformer Bay No. 3	0 days	Fri 1/9/23	Fri 1/9/23
11	A4: Lamma 132-kV Switching Station & OCGT Equipment Building	0 days	Fri 14/7/23	Fri 14/7/23
12	A5: Shelter, fencing and fire services installation works at GT I/B Transformer Bay No.3	0 days	Mon 16/6/25	Mon 16/6/25
13	Section B	626 days	Fri 15/12/23	Mon 1/9/25
14	B1: BESS foundation works	0 days	Mon 1/1/24	Mon 1/1/24
15	B2: Civil works for existing GT7(new GT10)	0 days	Fri 15/12/23	Fri 15/12/23
16	B3: Civil Works for existing GT5 (new GT8)	0 days	Mon 15/4/24	Mon 15/4/24
17	B4: Civil works for existing GT6 (new GT9)	0 days	Mon 1/9/25	Mon 1/9/25
18	B5: Civil works for existing I/B Transformer Bay No. 2 and Gas Turbine 132kV Switching Station	0 days	Sun 1/6/25	Sun 1/6/25
19	Section C	1280 days	Fri 1/7/22	Thu 1/1/26
20	C1: Trenching works within Area A & H	0 days	Fri 1/7/22	Fri 1/7/22
21	C2: Trenching works within Area B	0 days	Thu 18/1/24	Thu 18/1/24
22	C3: Trenching works within Area E	0 days	Sat 18/11/23	Sat 18/11/23
23	C3: Trenching works within Area F	0 days	Thu 18/4/24	Thu 18/4/24
24	C4: Trenching works within Area G	0 days	Tue 1/4/25	Tue 1/4/25
25	C5: Trenching works within Area I	0 days	Wed 1/10/25	Wed 1/10/25
26	C6: Trenching works for BESS-3 within Area B	0 days	Thu 1/1/26	Thu 1/1/26
27	Section D	578 days	Sun 1/1/23	Thu 1/8/24
28	D1: Trenching works within Area II	0 days	Sun 1/1/23	Sun 1/1/23
29	D2: Trenching works within Area I	0 days	Tue 5/9/23	Tue 5/9/23
30	D3: Trenching works within Area VIII	0 days	Thu 1/8/24	Thu 1/8/24
31	Section E	1035 days	Fri 1/12/23	Thu 1/10/26
32	E1: Remove of sub-base, backfill, screening etc. for trenches within Area A to J at LPS and Area I to VIII at LMX	0 days	Fri 1/12/23	Fri 1/12/23
33	E2: Total completion for all remaining works	0 days	Thu 1/10/26	Thu 1/10/26
34	Schedule of Completion Date as per Clause PS1.4.2	1532 days	Fri 21/10/22	Thu 31/12/26
35	Section A	1168 days	Fri 21/10/22	Thu 1/1/26
36	A1: Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F	0 days	Fri 21/10/22	Fri 21/10/22
37	A2: Demolition of existing pipe supporting rack at Amenity Building	0 days	Tue 27/6/23	Tue 27/6/23
38	A3: Piling works, pile cap, plinth and Trench Construction Works at GT I/B Transformer Bay No. 3	0 days	Mon 23/12/24	Mon 23/12/24
39	A4: Lamma 132-kV Switching Station & OCGT Equipment Building	0 days	Thu 27/2/25	Thu 27/2/25
40	A5: Shelter, fencing and fire services installation works at GT I/B Transformer Bay No.3	0 days	Thu 1/1/26	Thu 1/1/26
41	Section B	625 days	Fri 14/6/24	Sat 28/2/26
42	B1: BESS foundation works	0 days	Sun 30/6/24	Sun 30/6/24
43	B2: Civil works for existing GT7(new GT10)	0 days	Thu 12/9/24	Thu 12/9/24
44	B3: Civil Works for existing GT5 (new GT8)	0 days	Mon 20/1/25	Mon 20/1/25
45	B4: Civil works for existing GT6 (new GT9)	0 days	Fri 29/5/26	Fri 29/5/26
46	B5: Civil works for existing I/B Transformer Bay No. 2 and Gas Turbine 132kV Switching Station	0 days	Sat 28/2/26	Sat 28/2/26
47	Section C (LPS)	1080 days	Sun 16/7/23	Tue 30/6/26
48	C1: Trenching works within Area A & H	0 days	Sun 16/7/23	Sun 16/7/23
49	C2: Trenching works within Area B	0 days	Wed 2/10/24	Wed 2/10/24
50	C3: Trenching works within Area E	0 days	Wed 18/9/24	Wed 18/9/24
51	C3: Trenching works within Area F	0 days	Tue 29/10/24	Tue 29/10/24
52	C4: Trenching works within Area G	0 days	Tue 30/9/25	Tue 30/9/25
53	C5: Trenching works within Area I	0 days	Tue 31/3/26	Tue 31/3/26



Tender Program of Contract No. 21-83005
Civil Works for Reprovision of OCGT
at Lamma Island Power Station

Task — Summary — Start-only — Critical — Progress
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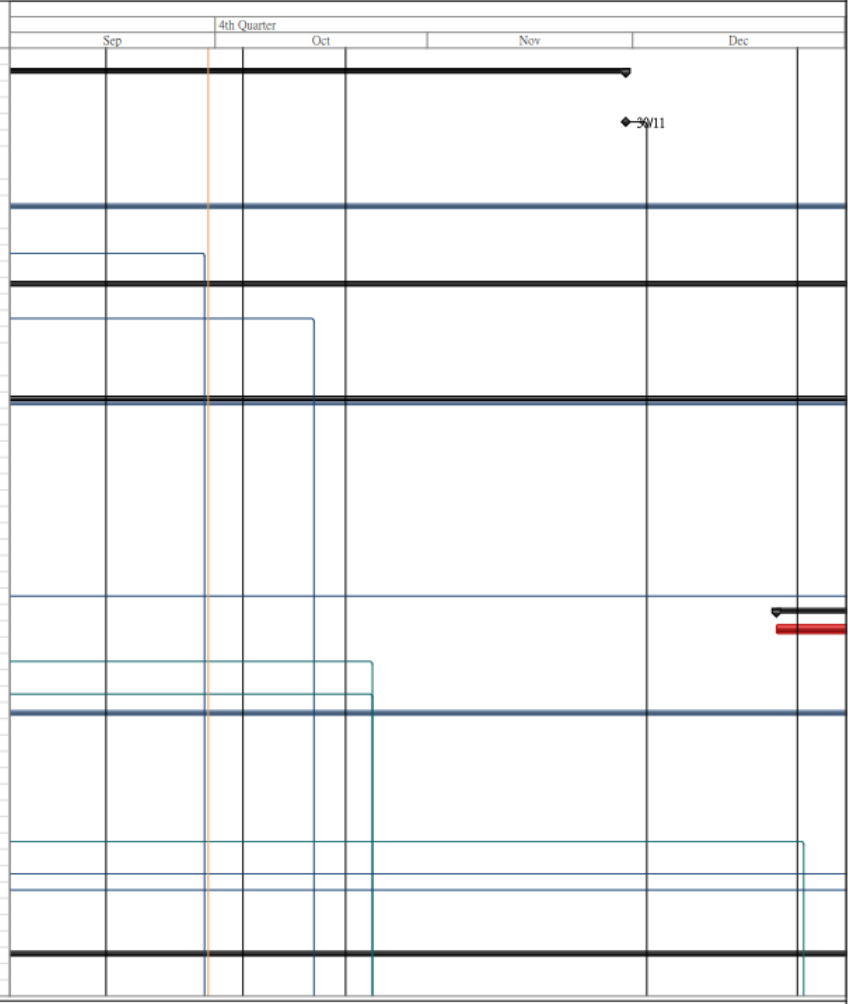
Contract No. 21-83005
Civil Works for Reprovision of OCGT at Lamma Power Station

ID	Task Name	Duration	Start	Finish
54	C6: Trenching works for BESS-3 within Area B	0 days	Tue 30/6/26	Tue 30/6/26
55	**Section D (LMX)**	**519 days**	**Fri 30/6/23**	**Sat 30/11/24**
56	D1: Trenching works within Area II	0 days	Fri 30/6/23	Fri 30/6/23
57	D2: Trenching works within Area I	0 days	Sat 7/10/23	Sat 7/10/23
58	D3: Trenching works within Area VIII	0 days	Sat 30/11/24	Sat 30/11/24
59	**Section E (LPS & LMX)**	**0 days**	**Thu 31/12/26**	**Thu 31/12/26**
60	E1: Remove of sub-base, backfill, screeding etc. for trenches within Area A to J at LPS and Area I to VIII at LMX	0 days	Thu 31/12/26	Thu 31/12/26
61	E2: Total completion for all remaining works	0 days	Thu 31/12/26	Thu 31/12/26
62	**Schedule of Anchor Bolt Installation by Employer's Specialist Contractor as per Clause PS1.4.3 (Section B2 to B4)**	**0 days**	**Mon 1/1/24**	**Mon 1/1/24**
63	Section B2 - Anchor Bolt installation	46 days	Thu 1/2/24	Sun 17/3/24
64	Section B3 - Anchor Bolt installation	45 days	Sat 1/6/24	Mon 15/7/24
65	Section B4 - Anchor Bolt installation	46 days	Thu 1/1/26	Sun 15/2/26
66	**Schedule of Final concreting works**	**1081 days**	**Thu 16/3/23**	**Sat 28/2/26**
67	Section B2 - Final Concreting Works	15 days	Thu 16/3/23	Thu 30/3/23
68	Section B3 - Final Concreting Works	16 days	Tue 16/7/24	Wed 31/7/24
69	Section B4 - Final Concreting Works	13 days	Mon 16/2/26	Sat 28/2/26
70	**Transformer works by Employer's Specialist Contractor as per Clause PS1.4.3 (Section B5)**	**122 days**	**Mon 1/9/25**	**Wed 31/12/25**
71	Section B5 - Transformer Works	122 days	Mon 1/9/25	Wed 31/12/25
72	**General Preliminary and Technical Submission and Approval**	**940 days**	**Fri 24/6/22**	**Sat 18/1/25**
73	Method Statement and Materials: Preparation and Submission (Section A1 & Section A2)	7 days	Fri 24/6/22	Thu 30/6/22
74	Method Statement and Materials: Engineer's Review and Approval (Section A1 & Section A2)	7 days	Fri 24/6/22	Thu 30/6/22
75	Method Statement and Materials: Preparation and Submission (Other Major Works)	28 days	Fri 1/7/22	Thu 28/7/22
76	Method Statement and Materials: Engineer's Review and Approval (Other Major Works)	28 days	Fri 29/7/22	Thu 25/8/22
77	Quality Plan - Preparation & Submission	28 days	Fri 24/6/22	Thu 21/7/22
78	Quality Plan - Engineer's Review and Approval	28 days	Fri 22/7/22	Thu 18/8/22
79	Health and Safety Plan - Preparation & Submission	28 days	Fri 24/6/22	Thu 21/7/22
80	Health and Safety Plan - Engineer's Review and Approval	28 days	Fri 22/7/22	Thu 18/8/22
81	Trenching Submission - Prepare and submit of Trenching work	28 days	Fri 24/6/22	Thu 21/7/22
82	Trenching Submission - Approval of Trenching work	28 days	Fri 22/7/22	Thu 18/8/22
83	ELS Design Submission - Preparation for Submission (Pile Cap)	28 days	Fri 24/6/22	Thu 21/7/22
84	ELS Design Submission - Review & Approval (Pile Cap)	28 days	Fri 22/7/22	Thu 18/8/22
85	**FS installation - Design Submission to ICE**	**29 days**	**Sun 22/12/24**	**Sun 19/1/25**
86	FS installation - Engineer's Review and Approval	29 days	Sun 22/12/24	Sun 19/1/25
87	BS Shop Drawing and Combined Services Drawings Preparation	90 days	Fri 28/10/22	Thu 26/1/23
88	Combined Services Drawings Approval by the Engineer	28 days	Fri 27/1/23	Thu 23/2/23
89	BS Equipment Schedule Preparation & Submission	90 days	Tue 31/1/23	Sun 30/4/23
90	BS Equipment Schedule Approval by the Engineer	28 days	Tue 2/5/23	Mon 29/5/23
91	**BD Application & Procedure**	**719 days**	**Fri 1/7/22**	**Tue 18/6/24**
92	BA19 Hoarding Permit Application (Phase I)	30 days	Fri 1/7/22	Sat 30/7/22
93	BA19 Hoarding Permit Application (Phase II)	30 days	Thu 15/6/23	Fri 14/7/23
94	BA8 Application for Consent (Demolition Works) (Green Zone - ST5)	28 days	Fri 1/7/22	Thu 28/7/22
95	BA8 Application for Consent (Demolition Works) (Cyan & Red Zone - GTAB & Turbo Block)	28 days	Fri 14/7/23	Thu 10/8/23
96	BA10 Notice of Appointment of Registered Contractor (Demolition Works)	7 days	Fri 11/8/23	Thu 17/8/23
97	BA14A Certificate on Completion of Demolition Works	27 days	Fri 22/12/23	Wed 17/1/24
98	BA8 Application for Consent (Piling works)	28 days	Wed 15/2/23	Tue 14/3/23
99	BA14 Certificate on Completion of Building Works (Piling Works)	0 days	Thu 2/5/24	Thu 2/5/24
100	BA8 Application for Consent (A&A Works)	28 days	Tue 15/8/23	Mon 11/9/23
101	BA8 Application for Consent (Pile Cap & Superstructure)	28 days	Fri 1/7/22	Thu 28/7/22
102	BA10 Notice of Appointment of Registered Contractor (Pile Cap & Superstructure)	7 days	Fri 29/7/22	Thu 4/8/22
103	BA13 & BA14 Certificate on Completion of Building Works (Pile Cap & Superstructure)	0 days	Mon 6/10/25	Mon 6/10/25
104	BA14 Certificate on Completion of Building Works (OCGT Equipment Building)	0 days	Mon 6/10/25	Mon 6/10/25
105	**Procurement & Delivery**	**190 days**	**Tue 30/5/23**	**Tue 5/12/23**
109	**Construction**	**1645 days**	**Fri 1/7/22**	**Thu 31/12/26**
110	Preparation	110 days	Sat 29/7/23	Wed 15/11/23
111	**Site Set-up and survey**	**48 days**	**Fri 1/7/22**	**Wed 17/8/22**



Tender Program of Contract No. 21-83005
Civil Works for Reprovision of OCGT
at Lamma Island Power Station

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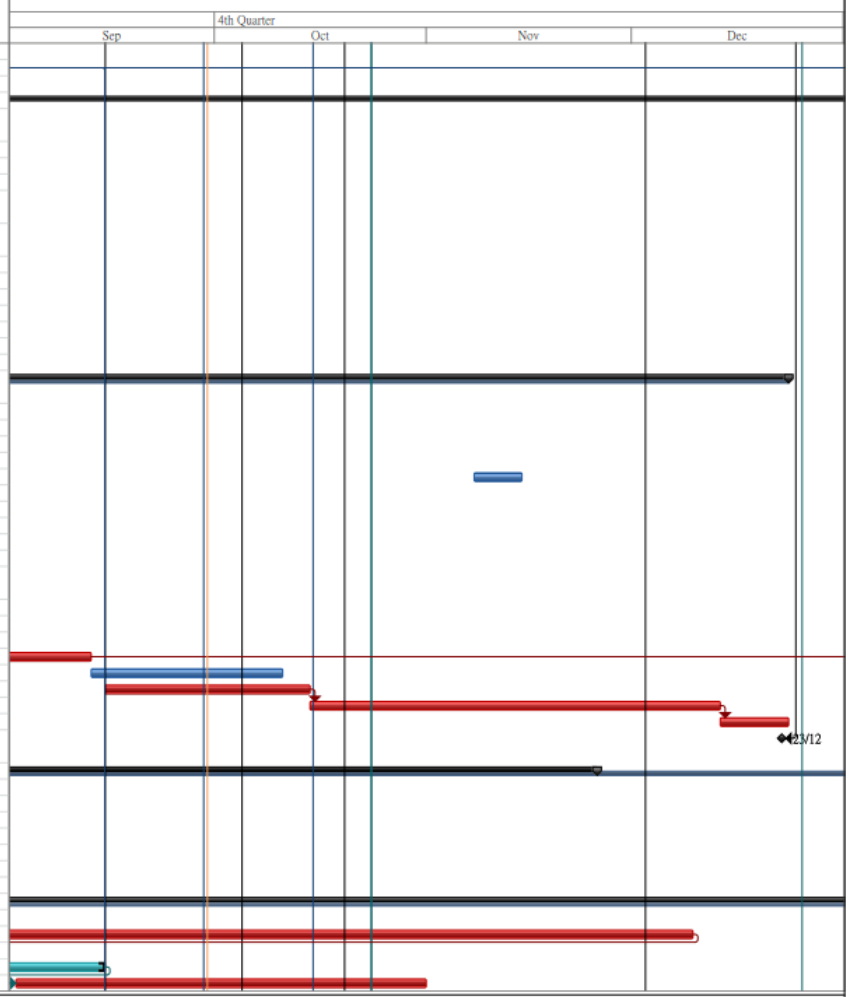
ID	Task Name	Duration	Start	Finish
112	Site Condition Survey	14 days	Fri 1/7/22	Thu 14/7/22
113	Fencing Erection at Site Office & Store	20 days	Fri 15/7/22	Wed 3/8/22
114	Erect Scaffolding & Temporary working platform	14 days	Thu 4/8/22	Wed 17/8/22
115	Section A	1187 days	Mon 3/10/22	Thu 1/1/26
116	A1: Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F	18 days	Mon 3/10/22	Fri 21/10/22
117	Site Establishment & Condition survey	4 days	Mon 3/10/22	Thu 6/10/22
118	Erection Scaffolding & Fence off	3 days	Fri 7/10/22	Sun 9/10/22
119	Removal & Disposal of existing cladding enclosure at G.L. 4-5/F	5 days	Mon 10/10/22	Fri 14/10/22
120	Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F and Make Good	3 days	Sat 15/10/22	Mon 17/10/22
121	Completion of Removal of existing cladding enclosure from +6.45 to +9.50mPD at G.L. 4-5/F	0 days	Fri 21/10/22	Fri 21/10/22
122	A2: Demolition of existing pipe supporting rack at Amenity Building	36 days	Tue 23/5/23	Tue 27/6/23
123	Site Establishment & Temporary work	2 days	Tue 23/5/23	Wed 24/5/23
124	Erection Scaffolding & Fence off	7 days	Thu 25/5/23	Wed 31/5/23
125	BD inspection and issue consent	14 days	Thu 1/6/23	Wed 14/6/23
126	Demolition of overhead pipes supporting rack at Amenity Building	4 days	Thu 15/6/23	Sun 18/6/23
127	Removal of hoarding and site clearance	7 days	Wed 21/6/23	Tue 27/6/23
128	Completion of Demolition of existing pipe supporting rack at Amenity Building	0 days	Tue 27/6/23	Tue 27/6/23
129	A3: Piling works, pile cap, plinth and Trench Construction Works at GT 1/B Transformer Bay No. 3	480 days	Fri 1/9/23	Mon 23/12/24
130	Removal of FS waterspray pipe system	14 days	Fri 1/9/23	Thu 14/9/23
131	Removal of covered shelter to transformer	10 days	Fri 29/9/23	Sun 8/10/23
132	Removal of fencing	7 days	Mon 9/10/23	Sun 15/10/23
133	Removal cable, control box and transformer (by other)	23 days	Mon 16/10/23	Tue 7/11/23
134	Setting out the Socketed H-piles location on site	7 days	Fri 8/11/24	Thu 14/11/24
135	Preparation work for piling works (Removal existing cable trenchs)	45 days	Wed 15/11/23	Fri 29/12/23
136	Set up the piling machine and setting out the piling rig on site	19 days	Sat 30/12/23	Wed 17/1/24
137	Socket H-pile: Pre-drilling works and stand pipe installation for socketed H pile	10 days	Fri 5/1/24	Sun 14/1/24
138	Diving of new Socketed-H pile casting for BD inspection	11 days	Thu 18/1/24	Sun 28/1/24
139	BD site inspection for Socketed H-piles setting out and rock head level	1 day	Mon 29/1/24	Mon 29/1/24
140	Abortive works for extraction of wrong Socketed H-pile casting and install of new stand pipe	20 days	Tue 30/1/24	Sun 18/2/24
141	BD re-inspection for Socketed H-piles setting out and rock head level	5 days	Mon 19/2/24	Fri 23/2/24
142	Socket H-pile: Foundation works (4 nos. Socket H-pile)	90 days	Sat 24/2/24	Thu 23/5/24
143	Socket H-pile: Post Drilling works	14 days	Fri 16/8/24	Thu 29/8/24
144	Preparing completion report and submission to BD	14 days	Fri 30/8/24	Thu 12/9/24
145	BD selection of testing piles	28 days	Fri 13/9/24	Thu 10/10/24
146	Pile load Test	30 days	Sun 15/9/24	Mon 14/10/24
147	ELS/ Pile Cap Construction (NPC2), trench and plinth to G/F & Backfilling	60 days	Tue 15/10/24	Fri 13/12/24
148	Site clearance and make good works	10 days	Sat 14/12/24	Mon 23/12/24
149	Completion of Piling works, pile cap, plinth and Trench Construction Works at GT 1/B Transformer Bay No. 3	0 days	Mon 23/12/24	Mon 23/12/24
150	A4: Lamma 132-kV Switching Station & OCGT Equipment Building	501 days	Fri 14/7/23	Mon 25/11/24
151	Demolition work inside GTAB	209 days	Fri 14/7/23	Wed 7/2/24
152	Preparation Works and Condition survey	15 days	Fri 14/7/23	Fri 28/7/23
153	Hoarding Erection	15 days	Tue 1/8/23	Tue 15/8/23
154	BD inspection and issue consent	30 days	Wed 16/8/23	Thu 14/9/23
155	Turbo Block Demolition	98 days	Fri 15/9/23	Thu 21/12/23
156	Demolition for GTAB floor slab	63 days	Wed 6/12/23	Tue 6/2/24
157	BD inspection after completion of demolition works	1 day	Wed 7/2/24	Wed 7/2/24
158	A&A work at GTAB	455 days	Fri 1/12/23	Thu 27/2/25
159	Off-site fabrication of structural steel	120 days	Fri 1/12/23	Fri 29/3/24
160	Civil Modification works and A&A Works at level +3.40 to 25.15	280 days	Tue 5/3/24	Mon 9/12/24
161	Construction of new floor slab at level +19.65	14 days	Sat 20/4/24	Fri 3/5/24
162	ABWF at level +19.65	135 days	Fri 3/5/24	Sat 14/9/24
163	BS Works at level +19.65	60 days	Mon 2/9/24	Thu 31/10/24



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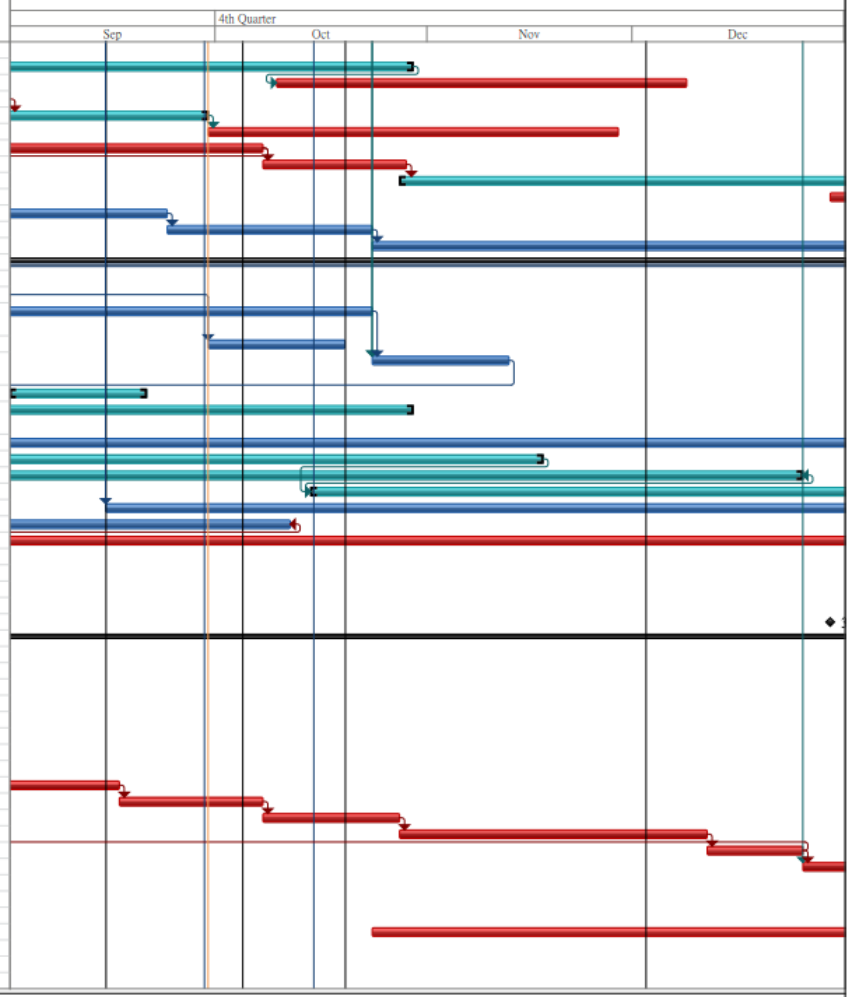
ID	Task Name	Duration	Start	Finish
164	Construction of new floor slab at level +13.65	14 days	Sun 19/5/24	Sat 1/6/24
165	ABWF at level +13.65	120 days	Tue 2/7/24	Tue 29/10/24
166	BS Works at level +13.65	60 days	Thu 10/10/24	Sun 8/12/24
167	Construction of new floor slab at level +25.15	60 days	Wed 3/7/24	Sat 31/8/24
168	ABWF at level +25.15	30 days	Sat 31/8/24	Sun 29/9/24
169	BS Works at level +25.15	60 days	Mon 30/9/24	Thu 28/11/24
170	Constructoiomn RC boxes and cable trench at level +3.40	128 days	Sun 2/6/24	Mon 7/10/24
171	Construction of new floor slab at level +6.15 & +7.00	21 days	Tue 8/10/24	Mon 28/10/24
172	ABWF at level +6.15 & +7.00	90 days	Mon 28/10/24	Sat 25/1/25
173	BS Works at level +6.15 & +7.00	60 days	Mon 30/12/24	Thu 27/2/25
174	Civil Modification works and A&A Works at flat roof	190 days	Mon 18/3/24	Mon 23/9/24
175	ABWF works at flat roof	30 days	Tue 24/9/24	Wed 23/10/24
176	BS works at flat roof	90 days	Thu 24/10/24	Tue 21/1/25
177	Other Building Works	524 days	Wed 1/11/23	Mon 7/4/25
178	Preparation of window, louvre and cladding BD Submission	30 days	Fri 23/12/22	Sat 21/1/23
179	Preparation of fiberglass water tank BD Submission	125 days	Wed 27/12/23	Mon 29/4/24
180	Replacement of the existing windows, louvre and translucent sheets by metal cladding	70 days	Thu 15/8/24	Wed 23/10/24
181	Installation of new louvre	20 days	Mon 30/9/24	Sat 19/10/24
182	Installation of new fibreglass F.S. water tank to replace the existing fibreglass tank on flat roof	20 days	Thu 24/10/24	Tue 12/11/24
183	Application of new waterproofing system to flat roof	20 days	Sun 1/9/24	Fri 20/9/24
184	Application of fire protection system to the existing indoor structural steelworks of the building	216 days	Thu 28/3/24	Tue 29/10/24
185	Fire services installation	140 days	Thu 29/8/24	Wed 15/1/25
186	Partition wall construction for new plant/equipment rooms	210 days	Mon 22/4/24	Sun 17/11/24
187	Procurement & Delivery	260 days	Wed 10/4/24	Wed 25/12/24
188	Replacement of the existing doors, roller shutters and folding shutters	100 days	Tue 15/10/24	Wed 22/1/25
189	Drainage Works	120 days	Sun 15/9/24	Sun 12/1/25
190	Procurement & Delivery	180 days	Mon 15/4/24	Fri 11/10/24
191	Mechanical ventilation and air conditioning installation	160 days	Sat 31/8/24	Thu 6/2/25
192	Touch up works for Builder	21 days	Fri 7/2/25	Thu 27/2/25
193	Fire services T&C	60 days	Thu 16/1/25	Sun 16/3/25
194	Drainage T & C	60 days	Mon 13/1/25	Thu 13/3/25
195	Mechanical ventilation and air conditioning T&C	60 days	Fri 7/2/25	Mon 7/4/25
196	Advance handover of 2/F	0 days	Mon 30/12/24	Mon 30/12/24
197	Construction of New Staircase ST-5	708 days	Sun 13/8/23	Sun 20/7/25
198	Preparation Work	18 days	Sun 13/8/23	Wed 30/8/23
199	Pipe piles installation works (24 nos. Pipe Piles)	50 days	Thu 31/8/23	Thu 19/10/23
200	Pipe piles working drawing amendment	30 days	Fri 20/10/23	Sat 18/11/23
201	BA14 Certificate on Completion of Building Works (Pipe Piles Works)	28 days	Mon 20/11/23	Sun 17/12/23
202	BA10 Application for Consent (ELS Works)	28 days	Tue 28/11/23	Mon 25/12/23
203	Trial holes excavation to determinate Socketed H-pile location	21 days	Tue 26/12/23	Mon 15/1/24
204	1st round Socket H-pile: Pre-drilling works for socketed H pile	21 days	Wed 17/1/24	Tue 6/2/24
205	2nd round Socket H-pile: Pre-drilling works for socketed H pile	21 days	Mon 19/2/24	Sun 10/3/24
206	Modification Work for Existing Inlet Culvert (Confinded Space)	190 days	Mon 11/3/24	Mon 16/9/24
207	3rd round Socket H-pile: Pre-drilling works for socketed H pile	21 days	Tue 17/9/24	Mon 7/10/24
208	Socket H-pile: Set up & Test Installation of Pile (BD witness)	20 days	Tue 8/10/24	Sun 27/10/24
209	Socket H-pile: Foundation works (7 nos. Socket H-pile)	45 days	Mon 28/10/24	Wed 11/12/24
210	Socket H-pile: Post Drilling works	14 days	Thu 12/12/24	Wed 25/12/24
211	Socket H-pile: Pile loading Test and Submission to BD	24 days	Thu 26/12/24	Sat 18/1/25
212	ELS/ Pile Cap Construction (NPC1) to G/F	28 days	Sun 19/1/25	Sat 15/2/25
213	Construction of New Staircase 4 above NPC1	65 days	Sun 16/2/25	Mon 21/4/25
214	Construction of new cladding enclosure for Staircase 4 at flat roof	65 days	Tue 22/4/25	Wed 25/6/25
215	Lift Procurement	180 days	Thu 24/10/24	Tue 22/4/25
216	Fireman's lift installation at OCGT Equipment Building	70 days	Tue 22/4/25	Mon 30/6/25
217	T&C	20 days	Tue 1/7/25	Sun 20/7/25
218	EMSD	28 days	Sun 20/7/25	Sun 17/8/25



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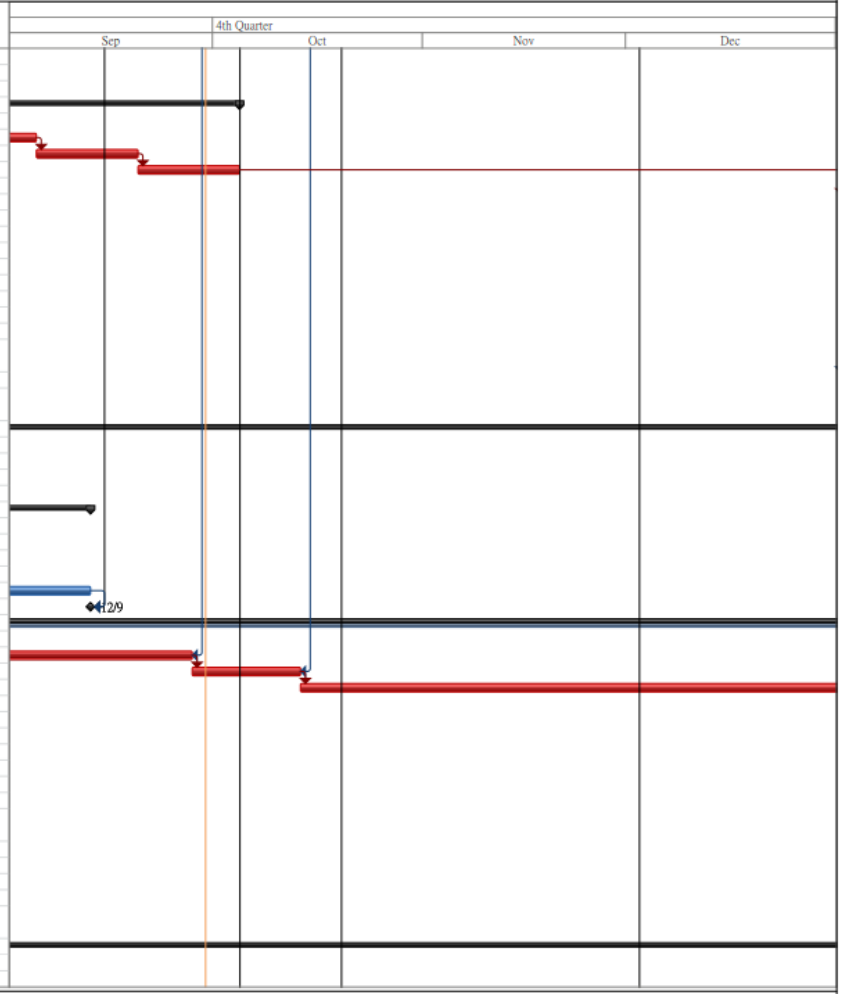
ID	Task Name	Duration	Start	Finish
219	Submit Form 5 for Lift inspection	0 days	Sun 20/7/25	Sun 20/7/25
220	Lift inspection by EMSD	14 days	Mon 21/7/25	Sun 3/8/25
221	Issue of Lift Certificate (Form 6) by EMSD	14 days	Mon 4/8/25	Sun 17/8/25
222	WSD inspection	45 days	Wed 21/8/24	Fri 4/10/24
223	Form WWO Part IV Submission	0 days	Wed 21/8/24	Wed 21/8/24
224	WSD inspection	15 days	Wed 21/8/24	Wed 4/9/24
225	WSD collection of Water sample	15 days	Thu 5/9/24	Thu 19/9/24
226	Issuance of water certificate	15 days	Fri 20/9/24	Fri 4/10/24
227	FSD inspection	50 days	Sun 17/8/25	Mon 6/10/25
228	Form 314 & 501 submission	0 days	Sun 17/8/25	Sun 17/8/25
229	FS inspection (FS system)	15 days	Mon 18/8/25	Mon 1/9/25
230	FS re-inspection	7 days	Tue 2/9/25	Mon 8/9/25
231	FSD - Form 172 (Fire Certificate)	28 days	Tue 9/9/25	Mon 6/10/25
232	BD inspection for OP	27 days	Mon 6/10/25	Sun 2/11/25
233	Form 314 & 501 submission	0 days	Mon 6/10/25	Mon 6/10/25
234	BD inspection	13 days	Tue 7/10/25	Sun 19/10/25
235	BD rectification and re-inspection	14 days	Mon 20/10/25	Sun 2/11/25
236	Completion of Lamma 132-kV Switching Station & OCGT Equipment Building	0 days	Sun 2/11/25	Sun 2/11/25
237	A5: Shelter, fencing and fire services installation works at GT I/B Transformer Bay No.3	200 days	Mon 16/6/25	Thu 1/1/26
238	Construction of shelter and fencing works at GT Interbus (I/B) Transformer Bay No. 3	90 days	Mon 16/6/25	Sat 13/9/25
239	Completion of Shelter, fencing and fire services installation works at GT I/B Transformer Bay No.3	0 days	Thu 1/1/26	Thu 1/1/26
240	Section B	897 days	Fri 15/12/23	Fri 29/5/26
241	B1: BESS foundation works	181 days	Mon 1/1/24	Sun 30/6/24
242	BESS Foundation in Area H	150 days	Mon 1/1/24	Wed 29/5/24
243	Ground investigation works for Borehole no. BH2, BH3 & BH4	30 days	Mon 1/1/24	Tue 30/1/24
244	Completion of BESS foundation works	1 day	Sat 29/6/24	Sun 30/6/24
245	B2: Civil works for existing GT7 (new GT10)	273 days	Fri 15/12/23	Thu 12/9/24
246	Ground Investigation works for Borehole no. BH1 and Trail pit no.TP1	30 days	Fri 15/12/23	Sat 13/1/24
247	Civil modification works for existing GT7 (new GT10)	122 days	Fri 15/12/23	Sun 14/4/24
248	Anchor Bolt Installation (By Others)	46 days	Mon 15/4/24	Thu 30/5/24
249	Final Concreting	15 days	Fri 31/5/24	Fri 14/6/24
250	Additional concrete plinths	90 days	Sat 15/6/24	Thu 12/9/24
251	Completion of Civil works for existing GT7 (new GT10)	0 days	Thu 12/9/24	Thu 12/9/24
252	B3: Civil Works for existing GT5 (new GT8)	272 days	Mon 15/4/24	Sat 11/1/25
253	Civil modification works for existing GT5 (new GT8)	121 days	Mon 15/4/24	Tue 13/8/24
254	Anchor Bolt Installation (By Others)	45 days	Wed 14/8/24	Fri 27/9/24
255	Final Concreting	16 days	Sat 28/9/24	Sun 13/10/24
256	Additional concrete plinths	90 days	Mon 14/10/24	Sat 11/1/25
257	Completion of Civil works for existing GT5 (new GT8)	0 days	Mon 20/1/25	Mon 20/1/25
258	B4: Civil works for existing GT6 (new GT9)	271 days	Mon 1/9/25	Fri 29/5/26
259	Civil modification works for existing GT6 (new GT9)	122 days	Mon 1/9/25	Wed 31/12/25
260	Anchor Bolt Installation (By Others)	46 days	Thu 1/1/26	Sun 15/2/26
261	Final Concreting	13 days	Mon 16/2/26	Sat 28/2/26
262	Additional concrete plinths	90 days	Sun 1/3/26	Fri 29/5/26
263	Completion of Civil works for existing GT6 (new GT9)	0 days	Fri 29/5/26	Fri 29/5/26
264	B5: Civil works for existing I/B Transformer Bay No. 2 and Gas Turbine 132kV Switching Station	273 days	Sun 1/6/25	Sat 28/2/26
265	Civil modification works for Gas Turbine 132kV Switching Station	92 days	Sun 1/6/25	Sun 31/8/25
266	Transformer works (By Others)	122 days	Mon 1/9/25	Wed 31/12/25
267	Fire services works for I/B Transformer No. 2	214 days	Sun 1/6/25	Wed 31/12/25
268	Other Remaining Works	59 days	Thu 1/1/26	Sat 28/2/26
269	Completion of Civil works for existing I/B Transformer No. 2 and Gas Turbine 132kV Switching Station	0 days	Sat 28/2/26	Sat 28/2/26
270	Section C	1461 days	Fri 1/7/22	Tue 30/6/26
271	C1: Trenching works within Area A	395 days	Fri 1/7/22	Sun 30/7/23
272	Area A	395 days	Fri 1/7/22	Sun 30/7/23



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Paul Y

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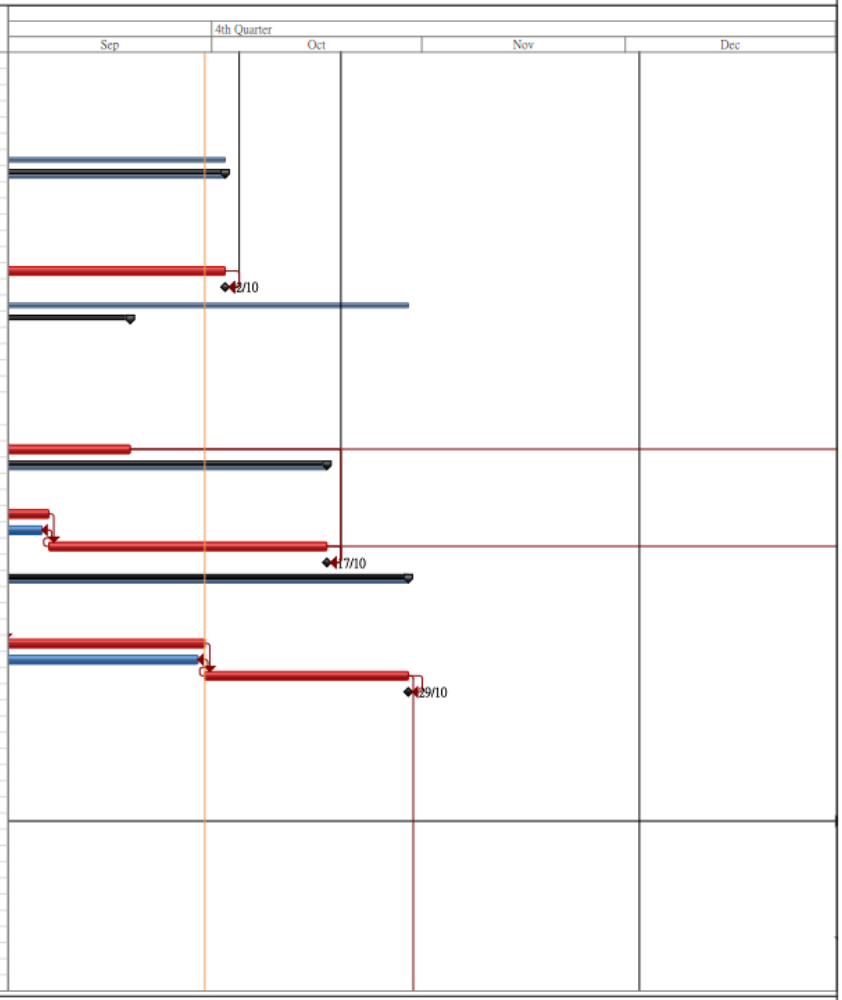
ID	Task Name	Duration	Start	Finish
273	Preparation Works (UU checking/ Condition survey/ Fence off)	20 days	Fri 1/7/22	Wed 20/7/22
274	Excavation (ELS)/ UU Diversion (if any)	75 days	Thu 21/7/22	Mon 3/10/22
275	Trench construction	270 days	Mon 19/9/22	Thu 15/6/23
276	Procurement & Delivery of Precast Trench Cover	60 days	Sun 16/4/23	Thu 15/6/23
277	Lay & compact sub-base & Install Precast Trench Covers	45 days	Fri 16/6/23	Sun 30/7/23
278	Completion of Trenching works within Area A	0 days	Sun 30/7/23	Sun 30/7/23
279	C2: Trenching works within Area B	214 days	Wed 15/11/23	Sat 15/6/24
280	Area B	259 days	Thu 18/1/24	Wed 2/10/24
281	Preparation Works (UU checking/ Condition survey/ Fence off)	25 days	Thu 18/1/24	Sun 11/2/24
282	Excavation (ELS)/ UU Diversion (if any)	60 days	Mon 12/2/24	Thu 11/4/24
283	Trench construction	99 days	Sat 23/3/24	Sat 29/6/24
284	Civil modification and A & A works at Generator Transformer	45 days	Sun 30/6/24	Tue 13/8/24
285	Procurement & Delivery of Precast Trench Cover	60 days	Fri 14/6/24	Tue 13/8/24
286	Lay & compact sub-base & Install Precast Trench Covers	50 days	Wed 14/8/24	Wed 2/10/24
287	Completion of Trenching works (excluding BESS-3) within Area B	0 days	Wed 2/10/24	Wed 2/10/24
288	C3: Trenching works within Area E & F	287 days	Sat 18/11/23	Fri 30/8/24
289	Area E	306 days	Sat 18/11/23	Wed 18/9/24
290	Preparation Works (UU checking/ Condition survey/ Fence off)	25 days	Sat 18/11/23	Tue 12/12/23
291	Excavation (ELS)/ UU Diversion (if any)	60 days	Wed 13/12/23	Sat 10/2/24
292	Trench construction	90 days	Mon 22/1/24	Sat 20/4/24
293	Abortive works for changing the trench depth at Waterfront Road	60 days	Sun 21/4/24	Wed 19/6/24
294	Determinate of trench aligment and relocation of exiting Fire Hydrant Box at East Bridge Road	50 days	Thu 20/6/24	Thu 8/8/24
295	Procurement & Delivery of Precast Trench Cover	60 days	Sun 9/6/24	Thu 8/8/24
296	Lay & compact sub-base & Install Precast Trench Covers	41 days	Fri 9/8/24	Wed 18/9/24
297	Area F	183 days	Thu 18/4/24	Thu 17/10/24
298	Preparation Works (UU checking/ Condition survey/ Fence off)	25 days	Thu 18/4/24	Sun 12/5/24
299	Excavation (ELS)/ UU Diversion (if any)	60 days	Mon 13/5/24	Thu 11/7/24
300	Trench construction	77 days	Sat 22/6/24	Fri 6/9/24
301	Procurement & Delivery of Precast Trench Cover	60 days	Mon 8/7/24	Fri 6/9/24
302	Lay & compact sub-base & Install Precast Trench Covers	41 days	Sat 7/9/24	Thu 17/10/24
303	Completion of Trenching works within Area E & F	0 days	Thu 17/10/24	Thu 17/10/24
304	Area D1	195 days	Thu 18/4/24	Tue 29/10/24
305	Preparation Works (UU/ Condition survey)	25 days	Thu 18/4/24	Sun 12/5/24
306	Excavation (ELS)/ UU Diversion (if any)	60 days	Mon 13/5/24	Thu 11/7/24
307	Trench construction	70 days	Sat 22/6/24	Fri 30/8/24
308	Modification existing cable through and re-construction new cable through	30 days	Sat 31/8/24	Sun 29/9/24
309	Procurement & Delivery of Precast Trench Cover	60 days	Wed 31/7/24	Sun 29/9/24
310	Lay & compact sub-base & Install Precast Trench Covers	30 days	Mon 30/9/24	Tue 29/10/24
311	Completion of Trenching works within Area D1	0 days	Tue 29/10/24	Tue 29/10/24
312	C4: Trenching works within Area G	183 days	Tue 1/4/25	Tue 30/9/25
313	Preparation Works (UU checking/ Condition survey/ Fence off)	20 days	Tue 1/4/25	Sun 20/4/25
314	Excavation (ELS)/ UU Diversion (if any)	70 days	Mon 21/4/25	Sun 29/6/25
315	Trench construction	83 days	Tue 10/6/25	Sun 31/8/25
316	Procurement & Delivery of Precast Trench Cover	60 days	Wed 2/7/25	Sun 31/8/25
317	Lay & compact sub-base & Install Precast Trench Covers	30 days	Mon 1/9/25	Tue 30/9/25
318	Completion of Trenching works within Area G	0 days	Tue 30/9/25	Tue 30/9/25
319	C5: Trenching works within Area I	182 days	Wed 1/10/25	Tue 31/3/26
320	Preparation Works (UU checking/ Condition survey/ Fence off)	20 days	Wed 1/10/25	Mon 20/10/25
321	Excavation (ELS)/ UU Diversion (if any)	60 days	Tue 21/10/25	Fri 19/12/25
322	Trench construction	80 days	Sun 30/11/25	Tue 17/2/26
323	Procurement & Delivery of Precast Trench Cover	60 days	Fri 19/12/25	Tue 17/2/26
324	Lay & compact sub-base & Install Precast Trench Covers	42 days	Wed 18/2/26	Tue 31/3/26
325	Completion of Trenching works within Area I	0 days	Tue 31/3/26	Tue 31/3/26
326	C6: Trenching works for BESS-3 within Area B	181 days	Thu 1/1/26	Tue 30/6/26
327	Preparation Works (UU checking/ Condition survey/ Fence off)	20 days	Thu 1/1/26	Tue 20/1/26
328	Excavation (ELS)/ UU Diversion (if any)	60 days	Wed 21/1/26	Sat 21/3/26
329	Trench construction	80 days	Thu 12/3/26	Sat 30/5/26



Tender Program of Contract No. 21-83005
Civil Works for Reprovision of OCGT
at Lamma Island Power Station

Paul Y

Task | Summary | Start-only | Critical | Progress
Milestone | Manual Summary | Finish-only | Critical Split

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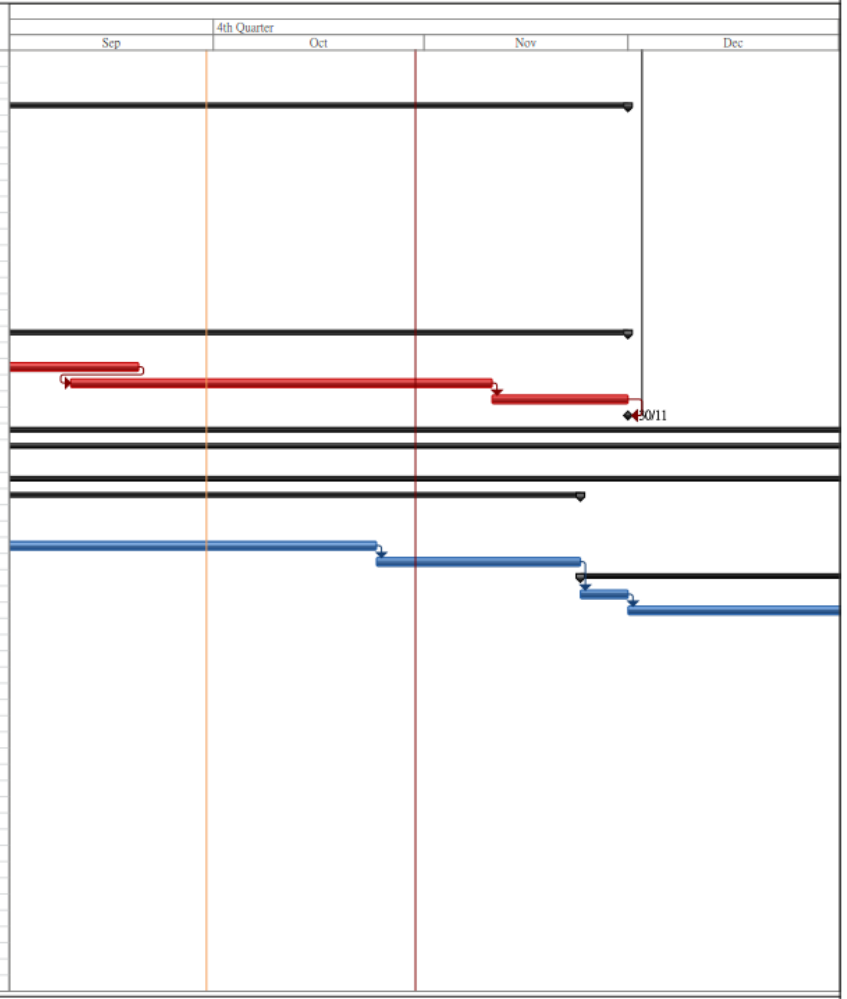
Contract No. 21-83005
Civil Works for Reprovision of OCGT at Lamma Power Station

ID	Task Name	Duration	Start	Finish
330	Procurement & Delivery of Precast Trench Cover	60 days	Tue 31/3/26	Sat 30/5/26
331	Lay & compact sub-base & Install Precast Trench Covers	31 days	Sun 31/5/26	Tue 30/6/26
332	Completion of Trenching works for BESS-3 within Area B	0 days	Tue 30/6/26	Tue 30/6/26
333	Section D	700 days	Sun 1/1/23	Sat 30/11/24
334	D1: Trenching works within Area II	181 days	Sun 1/1/23	Fri 30/6/23
335	Preparation Works (UU checking/ Condition survey/ Fence off)	30 days	Sun 1/1/23	Mon 30/1/23
336	Excavation (ELS)/ UU Diversion (if any)	70 days	Tue 31/1/23	Mon 10/4/23
337	Trench construction	71 days	Wed 22/3/23	Wed 31/5/23
338	Backfilling & Temporary Paving	30 days	Thu 1/6/23	Fri 30/6/23
339	Completion of Trenching works within Area II	0 days	Fri 30/6/23	Fri 30/6/23
340	D2: Trenching works within Area I	152 days	Tue 9/5/23	Sat 7/10/23
341	Preparation Works (UU checking/ Condition survey/ Fence off)	20 days	Tue 5/9/23	Sun 24/9/23
342	Excavation (ELS)/ UU Diversion (if any)	30 days	Mon 25/9/23	Tue 24/10/23
343	Trench construction	72 days	Wed 25/10/23	Thu 4/1/24
344	Existing Trench wall modification	72 days	Wed 25/10/23	Thu 4/1/24
345	Backfilling & Temporary Paving	30 days	Fri 5/1/24	Sat 3/2/24
346	Completion of Trenching works within Area I	0 days	Sat 3/2/24	Sat 3/2/24
347	D3: Trenching works within Area VIII	122 days	Thu 1/8/24	Sat 30/11/24
348	Preparation Works (UU checking/ Condition survey/ Fence off)	20 days	Thu 1/8/24	Tue 20/8/24
349	Excavation (ELS)/ UU Diversion (if any)	30 days	Wed 21/8/24	Thu 19/9/24
350	Trench construction	62 days	Tue 10/9/24	Sun 10/11/24
351	Backfilling & Temporary Paving	20 days	Mon 11/11/24	Sat 30/11/24
352	Completion of Trenching works within Area VIII	0 days	Sat 30/11/24	Sat 30/11/24
353	Section E	1481 days	Sun 1/1/23	Wed 20/1/27
354	E1: Remove of sub-base, backfill, screeding etc. for trenches within Area A to J at LPS and Area I to VIII at LMX	1481 days	Sun 1/1/23	Wed 20/1/27
355	Area at LPS	1481 days	Sun 1/1/23	Wed 20/1/27
356	Area A (Cable Trench - 132-GT10)	153 days	Mon 24/6/24	Sat 23/11/24
357	Remove Trench Cover & Excavation	7 days	Mon 24/6/24	Sun 30/6/24
358	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	50 days	Mon 1/7/24	Mon 19/8/24
359	Reinstate of Trench Cover including backfilling	66 days	Tue 20/8/24	Thu 24/10/24
360	Final Reinstatement of Road and Pavement	30 days	Fri 25/10/24	Sat 23/11/24
361	Area A (Cable Trench - LGT3)	304 days	Sun 24/11/24	Tue 23/9/25
362	Remove Trench Cover & Excavation	7 days	Sun 24/11/24	Sat 30/11/24
363	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	125 days	Sun 1/12/24	Fri 4/4/25
364	Reinstate of Trench Cover including backfilling	112 days	Sat 5/4/25	Fri 25/7/25
365	Final Reinstatement of Road and Pavement	60 days	Sat 26/7/25	Tue 23/9/25
366	Area A (Cable Trench - LGT2)	100 days	Wed 24/9/25	Thu 1/1/26
367	Remove Trench Cover & Excavation	7 days	Wed 24/9/25	Tue 30/9/25
368	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	17 days	Wed 1/10/25	Fri 17/10/25
369	Reinstate of Trench Cover including backfilling	46 days	Sat 18/10/25	Tue 2/12/25
370	Final Reinstatement of Road and Pavement	30 days	Wed 3/12/25	Thu 1/1/26
371	Area A (Cable Trench - GT9)	171 days	Fri 2/1/26	Sun 21/6/26
372	Installation of new anchor bolts by Plant Contractor for new Gas Turbine Plants	45 days	Fri 2/1/26	Sun 15/2/26
373	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	12 days	Wed 1/4/26	Sun 12/4/26
374	Reinstate of Trench Cover including backfilling	40 days	Mon 13/4/26	Fri 22/5/26
375	Final Reinstatement of Road and Pavement	30 days	Sat 23/5/26	Sun 21/6/26
376	Area A (Cable Trench - 132-GT9)	184 days	Mon 22/6/26	Tue 22/12/26
377	Remove Trench Cover & Excavation	9 days	Mon 22/6/26	Tue 30/6/26
378	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	75 days	Wed 1/7/26	Sun 13/9/26
379	Reinstate of Trench Cover including backfilling	70 days	Mon 14/9/26	Sun 22/11/26
380	Final Reinstatement of Road and Pavement	30 days	Mon 23/11/26	Tue 22/12/26
381	Completion of Area A	0 days	Thu 31/12/26	Thu 31/12/26
382	Area H (Cable Trench - Miscellaneous)	180 days	Sun 1/1/23	Thu 29/6/23
383	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	70 days	Sun 1/1/23	Sat 11/3/23
384	Reinstate of Trench Cover including backfilling	60 days	Sun 12/3/23	Wed 10/5/23
385	Final Reinstatement of Road and Pavement	50 days	Thu 11/5/23	Thu 29/6/23
386	Area B (Cable Trench - BESS-2a)	272 days	Sun 1/1/23	Fri 29/9/23



Tender Program of Contract No. 21-83005
Civil Works for Reprovision of OCGT
at Lamma Island Power Station

Task
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Summary
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Critical
Critical Split
Progress

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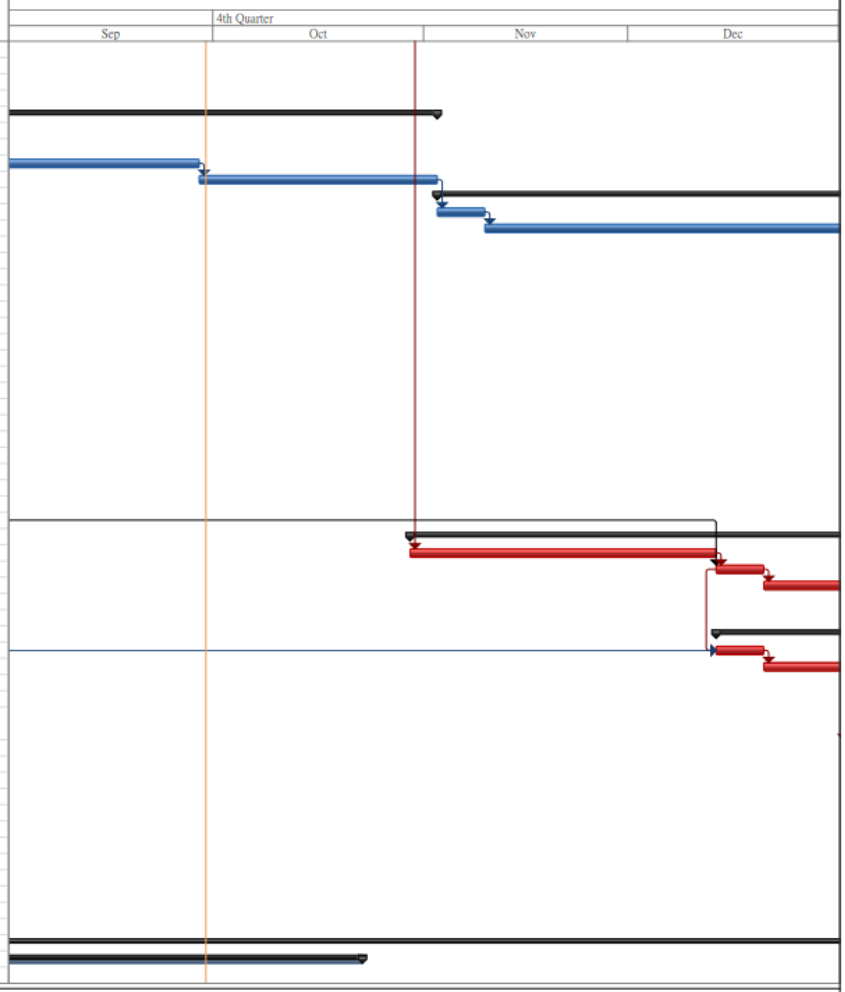
Contract No. 21-83005
Civil Works for Reprovision of OCGT at Lamma Power Station

ID	Task Name	Duration	Start	Finish
387	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	80 days	Sun 1/1/23	Tue 21/3/23
388	Final reinstatement including backfilling	80 days	Wed 22/3/23	Fri 9/6/23
389	Installation of new anchor bolts by Plant Contractor for new Gas Turbine Plants	35 days	Sat 10/6/23	Fri 14/7/23
390	Final Reinstatement of Road and Pavement	77 days	Sat 15/7/23	Fri 29/9/23
391	**Area B (Cable Trench - 132-GT10, FT-5)**	**162 days**	**Sat 25/5/24**	**Sat 2/11/24**
392	Remove Trench Cover , concrete screeding and Sub-base & Excavation	7 days	Sat 25/5/24	Fri 31/5/24
393	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	50 days	Mon 1/7/24	Mon 19/8/24
394	Reinstate of Trench Cover including backfilling	40 days	Tue 20/8/24	Sat 28/9/24
395	Final Reinstatement of Road and Pavement	35 days	Sun 29/9/24	Sat 2/11/24
396	**Area B (Cable Trench - LGT3)**	**212 days**	**Sun 3/11/24**	**Mon 2/6/25**
397	Remove Trench Cover , concrete screeding and Sub-base & Excavation	7 days	Sun 3/11/24	Sat 9/11/24
398	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	85 days	Sun 10/11/24	Sun 2/2/25
399	Reinstate of Trench Cover including backfilling	70 days	Mon 3/2/25	Sun 13/4/25
400	Final Reinstatement of Road and Pavement	50 days	Mon 14/4/25	Mon 2/6/25
401	**Area B (Cable Trench - LGT2)**	**197 days**	**Tue 3/6/25**	**Tue 16/12/25**
402	Remove Trench Cover , concrete screeding and Sub-base & Excavation	7 days	Tue 3/6/25	Mon 9/6/25
403	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	70 days	Tue 10/6/25	Mon 18/8/25
404	Reinstate of Trench Cover including backfilling	60 days	Tue 19/8/25	Fri 17/10/25
405	Final Reinstatement of Road and Pavement	60 days	Sat 18/10/25	Tue 16/12/25
406	**Area B (Cable Trench - BESS-3)**	**150 days**	**Wed 1/7/26**	**Fri 27/11/26**
407	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	60 days	Wed 1/7/26	Sat 29/8/26
408	Reinstate of Trench Cover including backfilling	50 days	Sun 30/8/26	Sun 18/10/26
409	Final Reinstatement of Road and Pavement	40 days	Mon 19/10/26	Fri 27/11/26
410	Completion of Area B	0 days	Thu 31/12/26	Thu 31/12/26
411	**Area C (Cable Trench - Miscellaneous)**	**359 days**	**Mon 9/1/23**	**Tue 2/1/24**
412	Remove Trench Cover & Excavation	183 days	Mon 9/1/23	Mon 10/7/23
413	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	61 days	Tue 11/7/23	Sat 9/9/23
414	Reinstate of Trench Cover including backfilling	58 days	Sun 10/9/23	Mon 6/11/23
415	Final Reinstatement of Road and Pavement	57 days	Tue 7/11/23	Tue 2/1/24
416	Completion of Area C	0 days	Tue 2/1/24	Tue 2/1/24
417	**Area D1 (Cable Trench - 132-GT8, LQZ1. LQZ2, 132-GT10)**	**234 days**	**Wed 30/10/24**	**Fri 20/6/25**
418	Installation of new anchor bolts by Plant Contractor for new Gas Turbine Plants	45 days	Wed 30/10/24	Fri 13/12/24
419	Remove Trench Cover & Excavation	7 days	Sat 14/12/24	Fri 20/12/24
420	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	70 days	Sat 21/12/24	Fri 28/2/25
421	Reinstate of Trench Cover including backfilling	62 days	Sat 1/3/25	Thu 1/5/25
422	Final Reinstatement of Road and Pavement	50 days	Fri 2/5/25	Fri 20/6/25
423	**Area J (Cable Trench - Miscellaneous)**	**189 days**	**Sat 14/12/24**	**Fri 20/6/25**
424	Remove Trench Cover & Excavation	7 days	Sat 14/12/24	Fri 20/12/24
425	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	70 days	Sat 21/12/24	Fri 28/2/25
426	Reinstate of Trench Cover including backfilling	62 days	Sat 1/3/25	Thu 1/5/25
427	Final Reinstatement of Road and Pavement	50 days	Fri 2/5/25	Fri 20/6/25
428	**Area D2 (Cable Trench - GT10, GT Station); Area E & F (Cable Trench -Miscellaneous)**	**122 days**	**Sat 21/6/25**	**Mon 20/10/25**
429	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	37 days	Sat 21/6/25	Sun 27/7/25
430	Reinstate of Trench Cover including backfilling	43 days	Mon 28/7/25	Mon 8/9/25
431	Final Reinstatement of Road and Pavement	42 days	Tue 9/9/25	Mon 20/10/25
432	**Area G (Cable Trench - LGT2, BESS-1)**	**273 days**	**Tue 21/10/25**	**Mon 20/7/26**
433	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	118 days	Tue 21/10/25	Sun 15/2/26
434	Reinstate of Trench Cover including backfilling	95 days	Mon 16/2/26	Thu 21/5/26
435	Final Reinstatement of Road and Pavement	60 days	Fri 22/5/26	Mon 20/7/26
436	**Area I (Cable Trench - 132-GT9)**	**184 days**	**Tue 21/7/26**	**Wed 20/1/27**
437	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	74 days	Tue 21/7/26	Fri 2/10/26
438	Reinstate of Trench Cover including backfilling	55 days	Sat 3/10/26	Thu 26/11/26
439	Final Reinstatement of Road and Pavement	55 days	Fri 27/11/26	Wed 20/1/27
440	Completion of Area A-J at LPS	0 days	Wed 20/1/27	Wed 20/1/27
441	**Area at LMX**	**1005 days**	**Mon 1/4/24**	**Thu 31/12/26**
442	**Area I & II (Cable Trench - GT8, GT10, GT Station)**	**205 days**	**Mon 1/4/24**	**Tue 22/10/24**
443	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	90 days	Mon 1/4/24	Sat 29/6/24



Tender Program of Contract No. 21-83005
Civil Works for Reprovision of OCGT
at Lamma Island Power Station

Paul Y

Task — Summary — Start-only — Critical — Progress
Milestone — Manual Summary — Finish-only — Critical Split

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Contract No. 21-83005
Civil Works for Reprovision of OCGT at Lamma Power Station

ID	Task Name	Duration	Start	Finish
444	Backfilling	65 days	Sun 30/6/24	Mon 2/9/24
445	Construct Permanent Paving & Final Reinstatement	50 days	Tue 3/9/24	Tue 22/10/24
446	**Area III & IV (Cable Trench - GT Station)**	**214 days**	**Wed 1/5/24**	**Sat 30/11/24**
447	Removal of Ground Finishes	31 days	Wed 1/5/24	Fri 31/5/24
448	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	52 days	Sat 1/6/24	Mon 22/7/24
449	Backfilling	61 days	Tue 23/7/24	Sat 21/9/24
450	Provision of Deck (Section III)	113 days	Sat 1/6/24	Sat 21/9/24
451	Construct Permanent Paving & Final Reinstatement	70 days	Sun 22/9/24	Sat 30/11/24
452	**Area VIII (Cable Trench - LGT3)**	**288 days**	**Sun 1/12/24**	**Sun 14/9/25**
453	Removal of Ground Finishes	30 days	Sun 1/12/24	Mon 30/12/24
454	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	118 days	Tue 31/12/24	Sun 27/4/25
455	Backfilling	80 days	Mon 28/4/25	Wed 16/7/25
456	Provision of Deck (Section VIII)	218 days	Tue 31/12/24	Tue 5/8/25
457	Construct Permanent Paving & Final Reinstatement	60 days	Thu 17/7/25	Sun 14/9/25
458	**Area V (Cable Trench - GT9)**	**473 days**	**Mon 15/9/25**	**Thu 31/12/26**
459	Existing Trench wall modification	30 days	Mon 15/9/25	Tue 14/10/25
460	Removal of Ground Finishes	61 days	Wed 15/10/25	Sun 14/12/25
461	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	118 days	Mon 15/12/25	Sat 11/4/26
462	Backfilling	100 days	Sun 12/4/26	Mon 20/7/26
463	Construct Permanent Paving & Final Reinstatement	164 days	Tue 21/7/26	Thu 31/12/26
464	**Area VI & VII (Cable Trench - GT9)**	**412 days**	**Sat 15/11/25**	**Thu 31/12/26**
465	Removal of Ground Finishes	30 days	Sat 15/11/25	Sun 14/12/25
466	Handover to Paul Y. for cable laying by Employer's Specialist Contractor	118 days	Mon 15/12/25	Sat 11/4/26
467	Backfilling	170 days	Sun 12/4/26	Mon 28/9/26
468	Provision of Deck (Section VII)	288 days	Mon 15/12/25	Mon 28/9/26
469	Construct Permanent Paving & Final Reinstatement	94 days	Tue 29/9/26	Thu 31/12/26
470	Completion of Area I-VIII at LMX	0 days	Thu 31/12/26	Thu 31/12/26
471	Completion of Remove of sub-base, backfill, screeding etc. for trenches within Area A to J at LPS and Area I to VIII at LMX	0 days	Wed 20/1/27	Wed 20/1/27
472	E2: Total completion for all remaining works	0 days	31/23/26	31/23/26
473	Contract Completion	0 days	Thu 31/12/26	Thu 31/12/26
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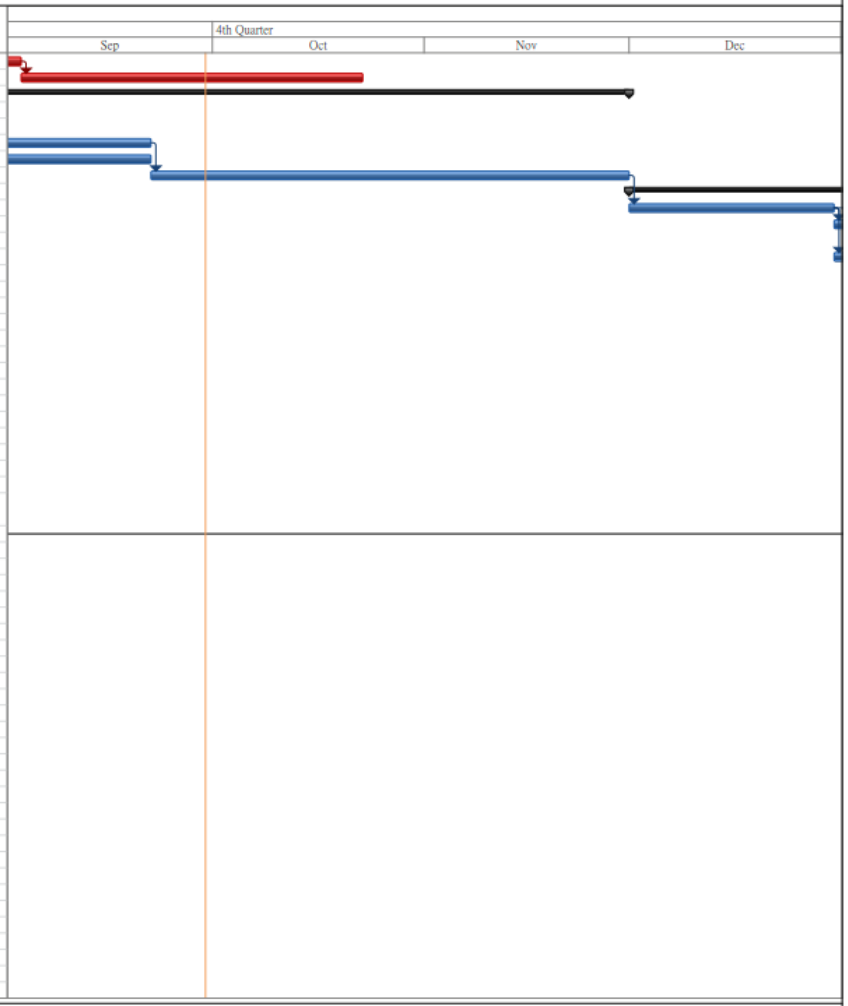

Tender Program of Contract No. 21-83005
Civil Works for Reprovision of OCGT
at Lamma Island Power Station

Paul Y

Task — Summary — Start-only — Critical — Progress
Milestone — Manual Summary — Finish-only — Critical Split

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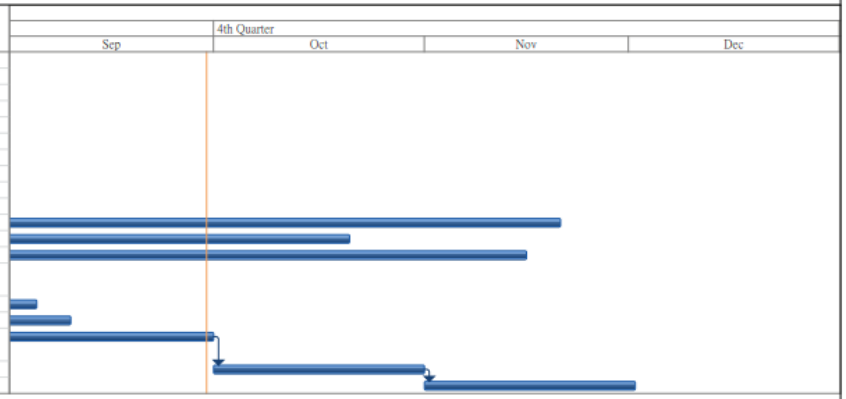
Contract No. 21-83005
Civil Works for Reprovision of OCGT at Lamma Power Station

ID	Task Name	Duration	Start	Finish
501				
502	JEC	1 day	Mon 25/3/24	Mon 25/3/24
503	LOA confirmation	0 days	Mon 25/3/24	Mon 25/3/24
504	Major equipment submission and approval	47 days	Mon 1/4/24	Fri 17/5/24
505	Material & drawing submission and approval	91 days	Mon 1/4/24	Sun 30/6/24
506	Major equipment order delivery	0 days	Wed 22/12/21	Wed 22/12/21
507	VRV	92 days	Tue 30/4/24	Tue 30/7/24
508	Vent Fan	51 days	Wed 10/4/24	Thu 30/5/24
509	FAP	53 days	Mon 8/4/24	Thu 30/5/24
510	Dismanting works for existing Ventilation system	53 days	Mon 8/4/24	Thu 30/5/24
511	Installation works at G/F	119 days	Thu 25/7/24	Wed 20/11/24
512	Installation works at 1/F	95 days	Thu 18/7/24	Sun 20/10/24
513	Installation works at 2/F:	124 days	Mon 15/7/24	Fri 15/11/24
514	132kV Protection Relay Room, 132kV Switching Room & OCGT No.9 Control Equipment Room	61 days	Wed 22/12/21	Sun 20/2/22
515	132kV GIS Hall	78 days	Wed 19/6/24	Wed 4/9/24
516	OCGT 8 control equipment room,Optical Fiber equipment room, RTU/ICP Room	60 days	Fri 12/7/24	Mon 9/9/24
517	iSMS equipment room /Communication battery room, Pilot /Tel cable marshalling box room, OCGT 10 control equipment room)	62 days	Wed 31/7/24	Mon 30/9/24
518	Installation works at R/F	31 days	Tue 1/10/24	Thu 31/10/24
519	Testing and comissioning	31 days	Fri 1/11/24	Sun 1/12/24



Tender Program of Contract No. 21-83005
Civil Works for Reprovision of OCGT
at Lamma Island Power Station

Paul Y

Task — Summary — Start-only — Critical — Progress
Milestone — Manual Summary — Finish-only — Critical Split

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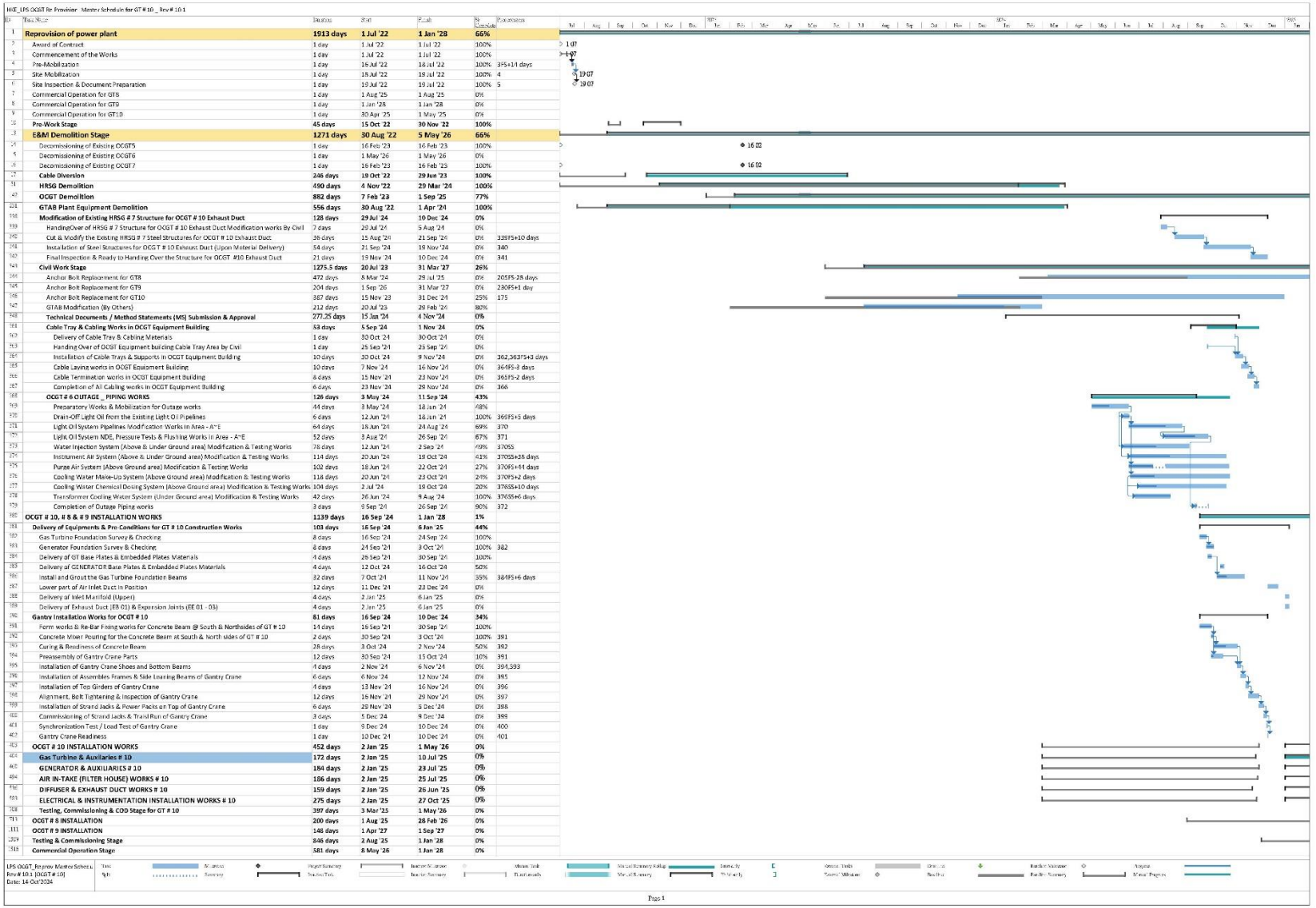
Appendix B2

Tentative Decommissioning and Construction Programme

(E&M Contractor)



	Task Name	Duration	Start	Finish	% Complete	Predecessors
1	**Reprovision of power plant**	**1913 days**	**1 Jul '22**	**1 Jan '28**	**66%**	
2	Award of Contract	1 day	1 Jul '22	1 Jul '22	100%	
3	Commencement of the Works	1 day	1 Jul '22	1 Jul '22	100%	
4	Pre-Mobilization	1 day	18 Jul '22	18 Jul '22	100%	3FS+1/1 days
5	Site Mobilization	1 day	18 Jul '22	18 Jul '22	100%	4
6	Site Inspection & Document Preparation	1 day	19 Jul '22	19 Jul '22	100%	5
7	Commercial Operation for GT8	1 day	1 Aug '25	1 Aug '25	0%	
8	Commercial Operation for GT9	1 day	1 Jan '26	1 Jan '26	0%	
9	Commercial Operation for GT10	1 day	30 Apr '25	1 May '25	0%	
10	**Pre-Work Stage**	**45 days**	**15 Oct '22**	**30 Nov '22**	**100%**	
3	**E&M Demolition Stage**	**1271 days**	**30 Aug '22**	**5 May '26**	**66%**	
14	Decommissioning of Existing OCGT5	1 day	16 Feb '23	16 Feb '23	100%	
5	Decommissioning of Existing OCGT6	1 day	1 May '26	1 May '26	0%	
16	Decommissioning of Existing OCGT7	1 day	16 Feb '23	16 Feb '23	100%	
17	**Cable Diversion**	**246 days**	**19 Oct '22**	**29 Jun '23**	**100%**	
31	**HRSG Demolition**	**490 days**	**4 Nov '22**	**29 Mar '24**	**100%**	
47	**OCGT Demolition**	**882 days**	**7 Feb '23**	**1 Sep '25**	**77%**	
231	**GTAB Plant Equipment Demolition**	**556 days**	**30 Aug '22**	**1 Apr '24**	**100%**	
238	**Modification of Existing HRSG # 7 Structure for OCGT # 10 Exhaust Duct**	**128 days**	**29 Jul '24**	**10 Dec '24**	**0%**	
239	HandingOver of HRSG # 7 Structure for OCGT # 10 Exhaust Duct/Modification works By Civil	7 days	29 Jul '24	5 Aug '24	0%	
240	Cut & Modify the Existing HRSG # 7 Steel structures for OCGT # 10 Exhaust Duct	36 days	15 Aug '24	21 Sep '24	0%	339FS+10 days
241	Installation of Steel Structures for OCG T # 10 Exhaust Duct (Upon Material Delivery)	54 days	21 Sep '24	19 Nov '24	0%	340
242	Final Inspection & Ready to Handing Over the Structure for OCGT #10 Exhaust Duct	21 days	19 Nov '24	10 Dec '24	0%	341
243	**Civil Work Stage**	**1275.5 days**	**20 Jul '23**	**31 Mar '27**	**26%**	
244	Anchor Bolt Replacement for GT8	472 days	8 Mar '24	29 Jul '25	0%	205FS-28 days
245	Anchor Bolt Replacement for GT9	204 days	1 Sep '26	31 Mar '27	0%	230FS+1 day
246	Anchor Bolt Replacement for GT10	387 days	15 Nov '23	31 Dec '24	25%	175
247	GTAB Modification (By Others)	212 days	20 Jul '25	29 Feb '26	80%	
248	**Technical Documents / Method Statements (MS) Submission & Approval**	**277.25 days**	**15 Jan '24**	**4 Nov '24**	**0%**	
161	**Cable Tray & Cabling Works in OCGT Equipment Building**	**53 days**	**5 Sep '24**	**1 Nov '24**	**0%**	
162	Delivery of Cable Tray & Cabling Materials	1 day	30 Oct '24	30 Oct '24	0%	
163	Handing Over of OCGT Equipment building Cable Tray Area by Civil	1 day	25 Sep '24	25 Sep '24	0%	
164	Installation of Cable Trays & Supports in OCGT Equipment Building	10 days	30 Oct '24	9 Nov '24	0%	362,363FS+3 days
165	Cable Laying works in OCGT Equipment Building	10 days	7 Nov '24	16 Nov '24	0%	364FS-3 days
166	Cable Termination works in OCGT Equipment Building	8 days	15 Nov '24	23 Nov '24	0%	365FS-2 days
167	Completion of All Cabling works in OCGT Equipment Building	6 days	23 Nov '24	29 Nov '24	0%	366
168	**OCGT # 6 OUTAGE _ PIPING WORKS**	**126 days**	**3 May '24**	**11 Sep '24**	**43%**	
169	Preparatory Works & Mobilization for Outage works	44 days	3 May '24	18 Jun '24	48%	
170	Drain-Off Light Oil from the Existing Light Oil Pipelines	6 days	12 Jun '24	18 Jun '24	100%	369FS+5 days
171	Light Oil System Pipelines Modification Works in Area - A~E	64 days	18 Jun '24	24 Aug '24	69%	370
172	Light Oil System NDE, Pressure Tests & Flushing Works in Area - A~E	52 days	3 Aug '24	26 Sep '24	67%	371
173	Water Injection System (Above & Under Ground area) Modification & Testing Works	76 days	12 Jun '24	2 Sep '24	49%	370SS
174	Instrument Air System (Above & Under Ground area) Modification & Testing Works	114 days	20 Jun '24	18 Oct '24	41%	370SS+28 days
175	Purge Air System (Above Ground area) Modification & Testing Works	102 days	18 Jun '24	22 Oct '24	27%	370FS+44 days
176	Cooling Water Make-Up System (Above Ground area) Modification & Testing Works	118 days	20 Jun '24	23 Oct '24	24%	370FS+2 days
177	Cooling Water Chemical Dosing System (Above Ground area) Modification & Testing Works	104 days	2 Jul '24	18 Oct '24	20%	376SS+10 days
178	Transformer Cooling Water System (Under Ground area) Modification & Testing Works	42 days	26 Jun '24	9 Aug '24	100%	376SS+6 days
179	Completion of Outage Piping works	3 days	9 Sep '24	26 Sep '24	90%	372
180	**OCGT # 10, # 8 & # 9 INSTALLATION WORKS**	**1139 days**	**16 Sep '24**	**1 Jan '28**	**1%**	
181	**Delivery of Equipments & Pre-Conditions for GT # 10 Construction Works**	**103 days**	**16 Sep '24**	**6 Jan '25**	**44%**	
182	Gas Turbine Foundation Survey & Checking	8 days	16 Sep '24	24 Sep '24	100%	
183	Generator Foundation Survey & Checking	8 days	24 Sep '24	3 Oct '24	100%	382
184	Delivery of GT Base Plates & Embedded Plates Materials	4 days	26 Sep '24	30 Sep '24	100%	
185	Delivery of GENERATOR Base Plates & Embedded Plates Materials	4 days	12 Oct '24	16 Oct '24	50%	
186	Install and Grout the Gas Turbine Foundation Beams	32 days	7 Oct '24	11 Nov '24	35%	384FS+6 days
187	Lower part of Air Inlet Duct in Position	12 days	11 Dec '24	23 Dec '24	0%	
188	Delivery of Inlet Manifold (Upper)	4 days	2 Jan '25	6 Jan '25	0%	
189	Delivery of Exhaust Duct (EB 01) & Expansion Joints (EE 01 - 05)	4 days	2 Jan '25	6 Jan '25	0%	
190	**Gantry Installation Works for OCGT # 10**	**61 days**	**16 Sep '24**	**10 Dec '24**	**34%**	
191	Form works & Re-Bar Fixing works for Concrete Beam @ South & Northsides of GT # 10	14 days	16 Sep '24	30 Sep '24	100%	
192	Concrete Mixer Pouring for the Concrete Beam at South & North sides of GT # 10	2 days	30 Sep '24	3 Oct '24	100%	391
193	Curing & Readiness of Concrete Beam	28 days	3 Oct '24	2 Nov '24	50%	392
194	Preassembly of Gantry Crane Parts	12 days	30 Sep '24	15 Oct '24	10%	391
195	Installation of Gantry Crane Shoes and Bottom Beams	4 days	2 Nov '24	6 Nov '24	0%	394,393
196	Installation of Assembles Frames & Side Leaning Beams of Gantry Crane	6 days	6 Nov '24	12 Nov '24	0%	395
197	Installation of Top Girders of Gantry Crane	4 days	13 Nov '24	16 Nov '24	0%	396
198	Alignment, Bolt Tightening & Inspection of Gantry Crane	12 days	18 Nov '24	29 Nov '24	0%	397
199	Installation of Strand Jacks & Power Packs on Top of Gantry Crane	6 days	29 Nov '24	5 Dec '24	0%	398
200	Commissioning of Strand Jacks & Trial Run of Gantry Crane	3 days	5 Dec '24	9 Dec '24	0%	399
201	Synchronization Test / Load Test of Gantry Crane	1 day	9 Dec '24	10 Dec '24	0%	400
202	Gantry Crane Readiness	1 day	10 Dec '24	10 Dec '24	0%	401
203	**OCGT # 10 INSTALLATION WORKS**	**452 days**	**2 Jan '25**	**1 May '26**	**0%**	
204	**Gas Turbine & Auxiliaries # 10**	**172 days**	**2 Jan '25**	**10 Jul '25**	**0%**	
205	**GENERATOR & AUXILIARIES # 10**	**184 days**	**2 Jan '25**	**23 Jul '25**	**0%**	
206	**AIR IN-TAKE (FILTER HOUSE) WORKS # 10**	**186 days**	**2 Jan '25**	**25 Jul '25**	**0%**	
207	**DIFFUSER & EXHAUST DUCT WORKS # 10**	**159 days**	**2 Jan '25**	**26 Jun '25**	**0%**	
208	**ELECTRICAL & INSTRUMENTATION INSTALLATION WORKS # 10**	**275 days**	**2 Jan '25**	**27 Oct '25**	**0%**	
209	**Testing, Commissioning & COD Stage for GT # 10**	**397 days**	**3 Mar '25**	**1 May '26**	**0%**	
210	**OCGT # 8 INSTALLATION**	**200 days**	**1 Aug '25**	**28 Feb '26**	**0%**	
211	**OCGT # 9 INSTALLATION**	**148 days**	**1 Apr '27**	**1 Sep '27**	**0%**	
1209	**Testing & Commissioning Stage**	**846 days**	**2 Aug '25**	**1 Jan '28**	**0%**	
1210	**Commercial Operation Stage**	**581 days**	**8 May '26**	**1 Jan '28**	**0%**	

Appendix C Summary of EMIS

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

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.	Complied
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.	Complied
EM&A: S4	Appropriate surface drainage will be designed and provided, where necessary.	Complied
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.	Complied
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.	Complied
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.	Complied
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.	Complied
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	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.	Recommended Mitigation Measures	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
WPCO: Water Pollution Control Ordinance

Appendix D Summary of Site Audit Findings or Recommendation

Civil contractor

Dates of Inspection: 2/9/2024, 10/9/2024, 17/9/2024 and 25/9/2024

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: 3/9/2024, 10/9/2024, 17/9/2024 and 25/9/2024

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 2024

Appendix E1 Monthly Waste Flow Table for September 2024 (Civil Contractor)

Monthly Waste Flow Table for September 2024

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 & 2024

MM.YYYY	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of Non-inert C&D Materials Generated Monthly						
	Excavated Materials			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	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	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	11.80
Oct 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	21.25
Nov 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.59	0.00	0.00	0.00	0.00	0.00	34.67
Dec 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.58	0.00	0.00	0.00	0.00	0.00	5.34
Jan 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	16.36
Feb 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.10	0.00	0.000	0.00	0.60	0.00	43.89
Mar 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	28.86
Apr 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.000	0.00	0.00	0.00	14.92
May 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.90	0.00	0.000	0.00	0.00	0.00	55.00
Jun 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06	0.00	0.000	0.00	0.20	0.00	28.48
Jul 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	19.76
Aug 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.000	0.00	0.00	0.00	63.96
Sep 2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	50.79
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.22	0.00	0.00	0.00	0.80	0.00	479.26

Total Inert C&D Waste Materials Generated	Non-inert C&D Materials		
	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
0.00 tonnes	46.22 tonnes	479.26 tonnes	800.00 Litre

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 NOT be considered as recycled waste.

Appendix E2 Monthly Waste Flow Table for September 2024 (E&M Contractor)

Monthly Waste Flow Table for September 2024

Project: C/N 22 23001 Lamma Reprovision of OCGT Demolition & Erection Work
Contractor: Kum Shing
Record by: Stephen Sin
Year of Record: 2024

	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of Non-inert C&D Materials Generated Monthly						
	Excavated Materials			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	Metals (steel bar/ metal strip)	Metals (aluminum can)	Paper / cardboard packaging	Plastics	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)
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0	22.15	903.81	0	0	0	121.2	13.65	1014.13
Jan-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.7
Feb-24	0	0	0	0	0	0	0	0	0	0	0	0	7.4	0	5.24
Mar-24	0	0	0	0	0	0	0	30.5	0	0	0	0	0	0	0
Apr-24	0	0	0	0	0	0	0	15.74	0	0	0	0	0	0	2.8
May-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	68.39	903.81	0	0	0	128.6	13.65	1059.87

Total Inert C&D Waste Materials Generated			Non-inert C&D Materials				
			C&D Materials (Metal (Steel bar/metal strip)) Recycled	C&D Waste (General Refuse) Disposed of at Landfill	Chemical Waste		
68.39	tonnes		903.81 tonnes	1059.87 tonnes	128.60 litre	13.65	tonnes

Where

(A) Inert C&D materials include bricks, concrete, building debris, rubble and were generated from the Project, of which 0.00 tonnes were reused in this and other contracts, and the remaining 68.39 tonnes were disposed as public fill to Fill Banks/Sorting. In total, 68.39 tonnes of inert C&D material

(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 fills.

(C) 903810 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.