

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



**Lamma Power Station Extension  
Construction Phase  
Monthly Environmental Monitoring & Audit Report**

**July 2025**



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



**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499**

**ENVIRONMENTAL PERMIT NO. EP-071/2000/D**

**LAMMA POWER STATION EXTENSION  
ENVIRONMENTAL MONITORING & AUDIT PROGRAMME  
AT CONSTRUCTION PHASE**

Report Title	Lamma Power Station Extension – Unit L13 Monthly EM&A Report (July 2025)
Date	14 August 2025
Certified by	 (Mr. CHAN Hon Yeung, Environmental Team Leader)
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## TABLE OF CONTENT

### EXECUTIVE SUMMARY

<b>1.</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	Background	1
1.2	Project Organisation	1
1.3	Construction Works undertaken during the Reporting Month	1
1.4	Summary of EM&A Requirements	2
<b>2.</b>	<b>AIR QUALITY .....</b>	<b>5</b>
2.1	Monitoring Requirements	5
2.2	Monitoring Locations	5
2.3	Monitoring Equipment	5
2.4	Monitoring Parameters, Frequency and Duration	5
2.5	Monitoring Procedures and Calibration Details	6
2.6	Results and Observations	7
<b>3.</b>	<b>NOISE.....</b>	<b>9</b>
3.1	Monitoring Requirements	9
3.2	Monitoring Locations	9
3.3	Monitoring Equipment	9
3.4	Monitoring Parameters, Frequency and Duration	9
3.5	Monitoring Procedures and Calibration Details	10
3.6	Results and Observations	10
<b>4.</b>	<b>ENVIRONMENTAL AUDIT .....</b>	<b>12</b>
4.1	Review of Environmental Monitoring Procedures	12
4.2	Assessment of Environmental Monitoring Results	12
4.3	Waste Management	12
4.4	Site Environmental Audit	13
4.5	Status of Environmental Licensing and Permitting	13
4.6	Implementation Status of Environmental Mitigation Measures	14
4.7	Implementation Status of Event/Action Plans	14
4.8	Implementation Status of Environmental Complaint Handling Procedures	14
<b>5.</b>	<b>FUTURE KEY ISSUES .....</b>	<b>15</b>
5.1	Key Issues for the Coming Month	15
5.2	Monitoring Schedules for the Next 3 Months	15
5.3	Construction Program for the Next 3 Months	15
<b>6.</b>	<b>CONCLUSION .....</b>	<b>16</b>

## **LIST OF TABLES**

Table 1.1	Construction Activities and Their Corresponding Environmental Mitigation Measures
Table 2.1	Air Quality Monitoring Locations
Table 2.2	Air Quality Monitoring Equipment
Table 2.3	Air Quality Monitoring Parameter, Duration and Frequency
Table 3.1	Noise Monitoring Equipment
Table 3.2	Noise Monitoring Duration and Parameter
Table 4.1	Summary of AL Level Exceedances on Monitoring Parameters
Table 4.2	Estimated Amounts of Waste in July 2025
Table 4.3	Summary of Environmental Licensing and Permit Status
Table 4.4	Environmental Complaints Received in July 2025
Table 4.5	Outstanding Environmental Complaints Carried Over

## **LIST OF FIGURES**

Figure 1.1	Layout of Work Site
Figure 2.1	Location of Air Quality Monitoring Stations
Figure 3.1	Location of Noise Monitoring Stations

## **APPENDICES**

Appendix A	Organization Chart
Appendix B	Action and Limit Levels for Air Quality and Noise
Appendix C	Environmental Monitoring Schedule
Appendix D	Air Quality Monitoring Results for July 2025
Appendix E	Noise Monitoring Results for July 2025
Appendix F	The QA/QC Procedures and Results
Appendix G	Event/Action Plans
Appendix H	Site Audit Summary
Appendix I	Summary of EMIS
Appendix J	Tentative Construction Programme
Appendix K	Monthly Waste Flow Table for July 2025

## EXECUTIVE SUMMARY

This is the 183<sup>rd</sup> monthly Environmental Monitoring and Audit (EM&A) report for the Project “Construction of Lamma Power Station Extension” prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air quality and noise for the said project in July 2025.

The reclamation and submarine pipeline works were completed with the first gas-fired combined cycle unit (viz. Unit L9) commissioned in October 2006, working currently on base load operation. To cope with the scheduled retirement of the existing units at Lamma Power Station, the second gas-fired combined cycle unit (viz. Unit L10) L10 was commissioned for reliable operation in February 2020.

In September 2016, the Government approved HK Electric to construct the third combined cycle gas-fired generating unit (Unit L11) to implement the 2020 Fuel Mix Target. L11 was commissioned for reliable operation effective in May 2022.

With the Government’s approval to build the fourth combined cycle gas-fired generating unit (L12) in July 2018, the associated construction work commenced in April 2019. L12 was commissioned for reliable operation effective on 31/3/2024. The operational EM&A work for L9, L10, L11 and L12 is recorded in the separate monthly EM&A report for the Project “Operation of Lamma Power Station Extension”.

With the Government’s approval to build the fifth combined cycle gas-fired generating unit (L13) in November 2023, the associated construction work commenced in end January 2024.

Air and noise monitoring were performed. The results were checked against the established Action/Limit (AL) levels. An on-site audit was conducted once per week. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

### Construction Activities Undertaken

Construction activities for Lamma Extension during the reporting month are tabulated as follows:

Item	Construction Activities
Unit L13 Civil and Building Works	Civil advance work

### Environmental Monitoring Works

All monitoring work at designated stations was performed as scheduled satisfactorily.

#### *Air Quality*

No exceedance of Action/Limit levels on 1-hour TSP and 24-hour TSP for air quality was recorded in the month.

#### *Noise*

No exceedance of Action and Limit levels for noise arising from the construction of Lamma Extension was recorded in the month.

## Site Environmental Audit

Independent Environmental Checker (IEC) conducted a site inspection on 24/7/2025. The site conditions were generally satisfactory.

Site audits were carried out on a weekly basis to monitor environmental issues on the construction site. The site conditions were generally satisfactory.

## Environmental Licensing and Permitting

Description	Permit No.	Valid Period		Issued To	Date of Issuance
		From	To		
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
Construction Noise Permit	GW-RS0498-25	19/05/25	18/11/25	Contractor	14/05/25
WPCO Discharge Licence	WT100046647-2025	18/07/25	31/07/30	Contractor	18/07/25
Waste Disposal Billing Account	Account No.: 7054247	03/04/25	-	Contractor	03/04/25

## Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures for the construction activities as recommended in the EM&A manual were implemented in the reporting month.

## Environmental Complaints

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

## Future Key Issues

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

### Unit L13 Civil and Building Works

- to continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;
- to treat wastewater in sedimentation tank for re-use on construction activities and to ensure compliance with the WPCO discharge licence already obtained.

## Concluding Remarks

The environmental performance of the project was generally satisfactory.

## **1. INTRODUCTION**

### **1.1 Background**

The Environmental Team (hereinafter called the “ET”) was formed within the Hongkong Electric Co. Ltd (HEC) to undertake Environmental Monitoring and Audit for “Construction of Lamma Power Station Extension” (hereinafter called the “Project”). Under the requirements of Section 6 of Environmental Permit EP-071/2000/D, an EM&A programme for impact environmental monitoring set out in the EM&A Manual (Construction Phase) is required to be implemented. In accordance with the EM&A Manual, environmental monitoring of air quality, noise and water quality and regular environmental audits are required for the Project. With the completion of reclamation and submarine pipeline works, no further marine water quality monitoring would be required.

The Project involves the construction of a gas-fired power station employing combined cycled gas turbine technology, forming an extension to the existing Lamma Power Station. The key elements of the Project including the construction activities associated with the transmission system and submarine gas pipeline are outlined as follows.

- dredging and reclamation to form approximately 22 hectares of usable area;
- construction of six 300MW class gas-fired combined cycle units;
- construction of a gas receiving station;
- construction of a transmission system linking the Lamma Extension to load centres on Hong Kong Island;
- laying of a gas pipeline for the supply of natural gas to the new power station

This report summarizes the environmental monitoring and audit work for the Project for the month of July 2025.

### **1.2 Project Organisation**

An Environmental Management Committee (EMC) has been set up in HEC to oversee the Project. The management structure includes the following:

- Environmental Protection Department (The Authority);
- Environmental Manager (The Chairman of the Environmental Management Committee);
- Engineer;
- Independent Environmental Checker (IEC);
- Environmental Team (ET);
- Contractor.

The project organisation chart for the construction EM&A programme is shown in [Appendix A](#).

### **1.3 Construction Works undertaken during the Reporting Month**

Construction activities for Unit L13 civil and building works were civil advance work. Layout plan for construction site is shown in [Figure 1.1](#).

The main construction activities carried out during the reporting month and the corresponding environmental mitigation measures are summarized in [Table 1.1](#). The implementation of major mitigation measures in the month is provided in [Appendix I](#).

Table 1.1 Construction Activities and Their Corresponding Environmental Mitigation Measures

Item	Construction Activities	Environmental Mitigation Measures
Unit L13 Civil and Building Works		
1	Civil Advance Work	<p><b>Wastewater</b></p> <ul style="list-style-type: none"> <li>– All wastewater will be pumped to the sedimentation ponds for desilting process. After that, wastewater will be re-used for construction activities or pumped for storage.</li> <li>– All wastewater will be treated before discharge to fulfill the requirement of wastewater discharge licence.</li> </ul> <p><b>Noise</b></p> <ul style="list-style-type: none"> <li>– General noise mitigation measure employed at all work sites throughout the construction phase.</li> <li>– Following all requirement of Construction Noise Permit issued by EPD.</li> <li>– Generators operate with door closed.</li> </ul> <p><b>Waste Management</b></p> <ul style="list-style-type: none"> <li>– Waste Management Plan submitted and implemented.</li> <li>– Construction will be store in the proposed storage area for recycled or disposal.</li> </ul> <p><b>Air</b></p> <ul style="list-style-type: none"> <li>– Dust suppression in the main haul road.</li> <li>– Using ULSD for PMEs.</li> <li>– Cover dusty stockpile with tarpaulin and water spraying.</li> <li>– Wheel-washing was installed in site</li> <li>– Well maintain and check the PMEs</li> </ul>

#### 1.4 Summary of EM&A Requirements

The detailed EM&A monitoring work for air quality and noise are described in Sections 2 and 3 respectively. Regular environmental site audits for air quality, noise, water quality and waste management were carried out.

The following environmental audits are summarized in Section 4 of this report:

- Environmental monitoring results;
- Waste Management Records;
- Weekly site audit results;
- The status of environmental licensing and permits for the Project;



- The implementation status of environmental protection and pollution control/ mitigation measures.

Future key issues will be reported in Section 5 of this report.

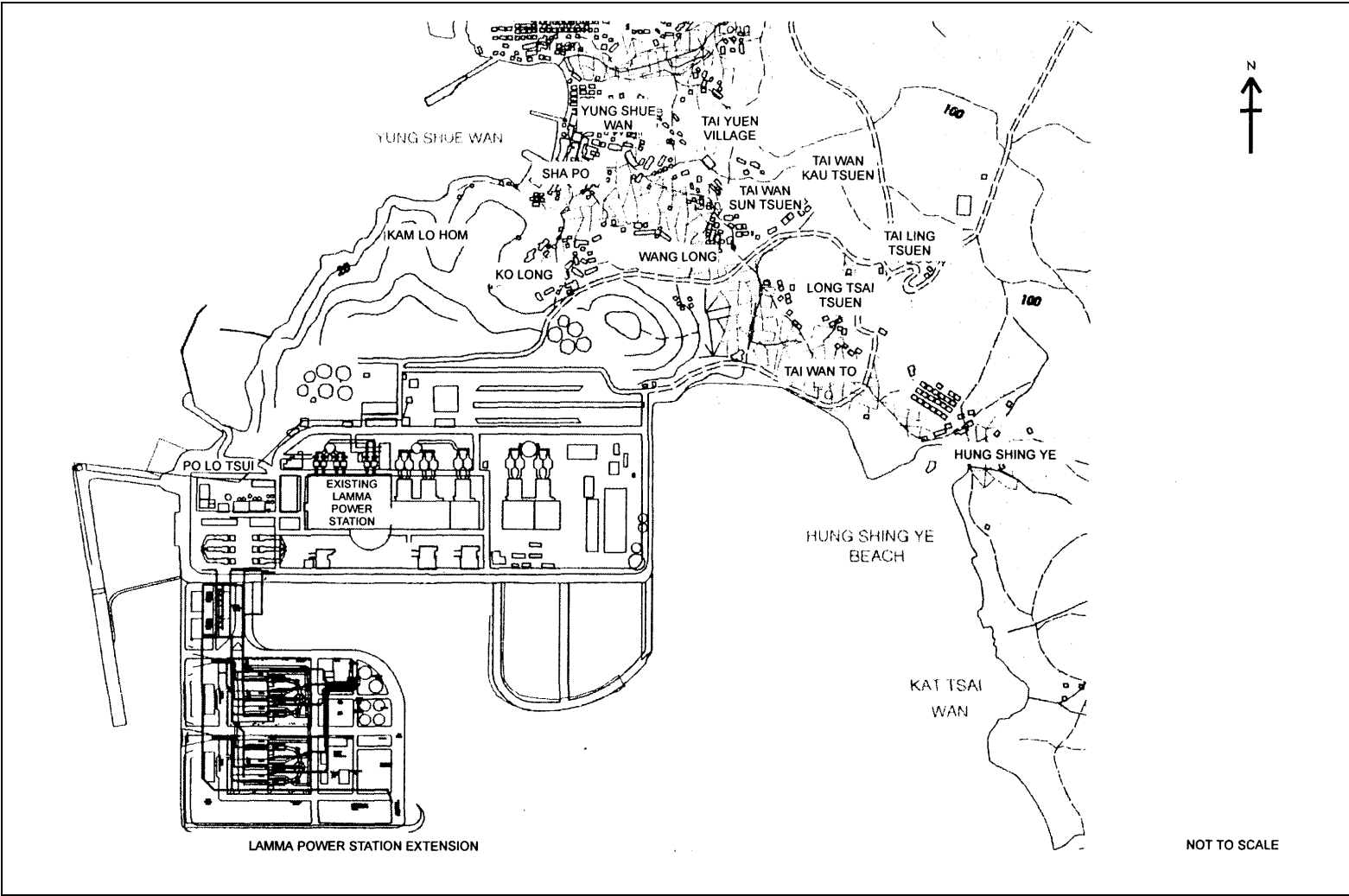


Figure 1.1 Layout of Work Site

## 2. AIR QUALITY

### 2.1 Monitoring Requirements

1-hour and 24-hour TSP monitoring at agreed frequencies were conducted to monitor air quality. The impact monitoring data were checked against the Action/Limit Levels as determined in the Baseline Monitoring Report (Construction Phase). [Appendix B](#) shows the established Action/Limit Levels for Air Quality.

### 2.2 Monitoring Locations

Three dust monitoring locations were selected for 1-hour TSP sampling (AM1, AM2 & AM3) while four monitoring locations were selected for 24-hour TSP sampling (AM1, AM2, AM3 and AM4). [Table 2.1](#) tabulates the monitoring stations. The locations of the monitoring stations are shown in [Figure 2.1](#).

Table 2.1 Air Quality Monitoring Locations

Location I.D.	Description
AM1	Reservoir
AM2	East Gate
AM3	Ash Lagoon
AM4	Tai Yuen Village

### 2.3 Monitoring Equipment

It is agreed with EPD that continuous 24-hour TSP air quality monitoring would be performed using TEOM continuous dust monitor and the MINIVOL Portable Sampler at AM1,2&3 and AM4 respectively. TEOM continuous dust monitors were used to carry out 1-hour TSP monitoring at AM1, AM2 and AM3. [Table 2.2](#) summarises the equipment used in dust monitoring.

Table 2.2 Air Quality Monitoring Equipment

Equipment	Model and Make
<i>24-hour sampling:</i>	
Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific
MINIVOL Portable Sampler	AIRMETRICS
<i>1-hour sampling:</i>	
Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific

### 2.4 Monitoring Parameters, Frequency and Duration

[Table 2.3](#) summarises the monitoring parameters, duration and frequency of air quality monitoring. The monitoring schedule for the reporting month is shown in [Appendix C](#).

Table 2.3 Air Quality Monitoring Parameter, Duration and Frequency

Monitoring Stations	Parameter	Duration	Frequency
AM1	1-hour TSP	1	3 hourly samples every 6 days
	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
	24-hour TSP	24	Once every 6 days
AM3	1-hour TSP	1	3 hourly samples every 6 days
	24-hour TSP	24	Once every 6 days
AM4	24-hour TSP	24	Once every 6 days

## 2.5 Monitoring Procedures and Calibration Details

MINIVOL (24- hour TSP Monitoring):

### *Preparation of Filter Papers*

- Visual inspection of filter papers was carried out to ensure that there were no pinholes, tears and creases;
- The filter papers were then labeled before sampling.
- The filter papers were equilibrated at room temperature and relative humidity < 50% for at least 24 hours before weighing.

### *Field Monitoring*

- During collection of the sampled filter paper, the information on the elapse timer was logged. Site observations around the monitoring stations, which might have affected the monitoring results, were also recorded. Major pollution sources, if any, would be identified and reported.
- The post-sampling filter papers were removed carefully from the filter holder and folded to avoid loss of fibres or dust particles from the filter papers;
- The filter holder and its surrounding were cleaned;
- A pre-weighed blank filter paper for the next sampling was put in place and aligned carefully. The filter holder was then tightened firmly to avoid leakage;
- The programmable timer was set for the next 24 hrs sampling period;
- The post-sampling filter papers were equilibrated at room temperature and relative humidity < 50% for at least 24 hours before weighing.

TEOM continuous dust monitor (24- hour TSP and 1- hour TSP Monitoring):

- The following parameters of the TEOM model dust meters are regularly checked to ensure proper functionality:
  - Operation Mode;
  - Frequency of the tapered element;
  - Main flow;
  - Bypass flow.

### *Maintenance & Calibration*

- The monitoring equipment and their accessories are maintained in good working conditions.

- Monitoring equipment is calibrated at monthly intervals. Calibration details are shown in [Appendix F](#).

## **2.6 Results and Observations**

All dust monitoring works were conducted on schedule. All monitoring data and graphical presentation of the monitoring results are provided in [Appendix D](#). Key findings and observations are provided below:

### *1-hour TSP*

No exceedance of 1-hour TSP Action/Limit Level was recorded in the month.

### *24-hour TSP*

No exceedance of 24-hour TSP Action/Limit Level was recorded in the month.

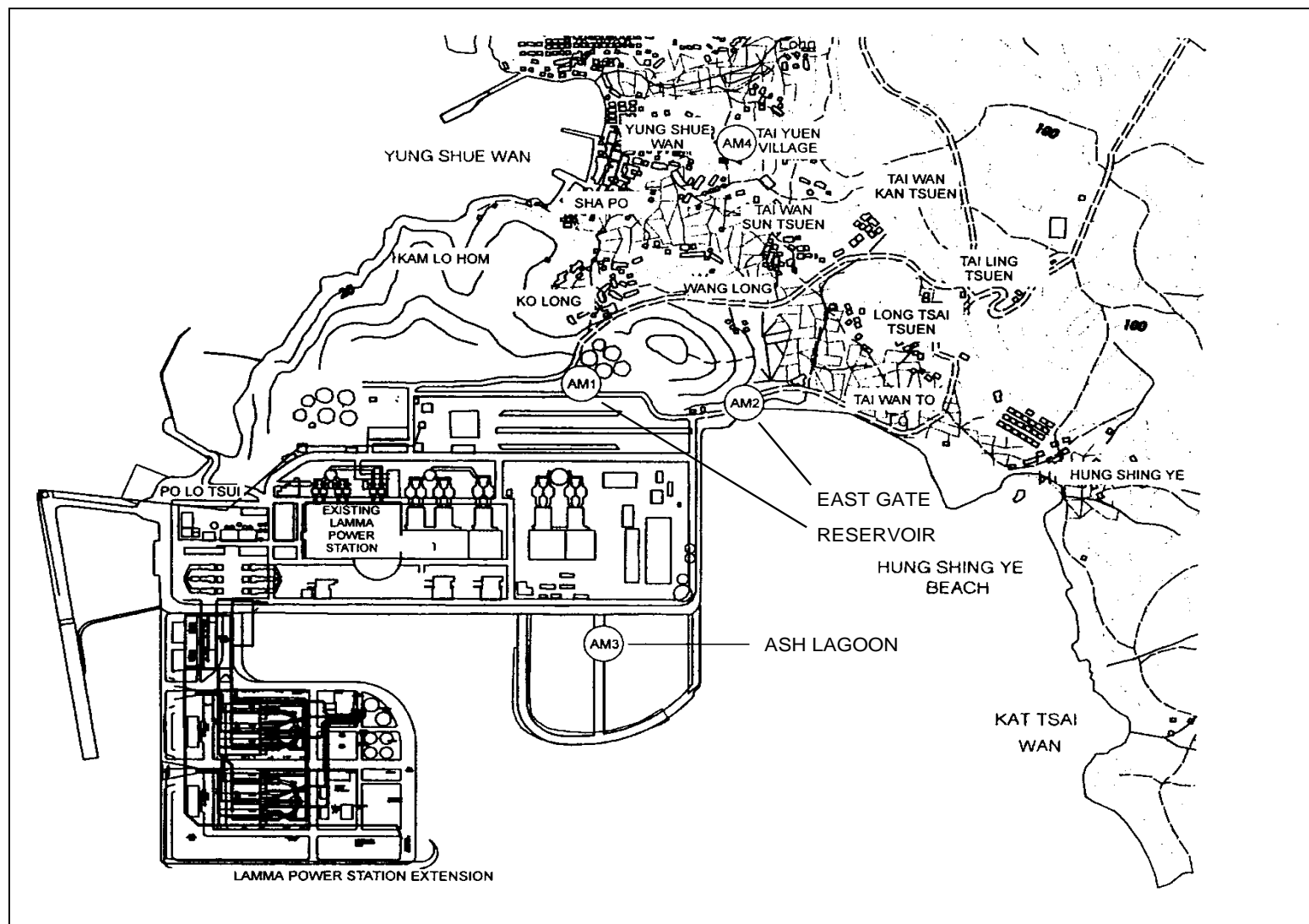


Figure 2.1 Location of Air Quality Monitoring Stations

### 3. NOISE

#### 3.1 Monitoring Requirements

Continuous noise alarm monitoring at Ash Lagoon/Ching Lam were carried out to calculate the noise contributed by the construction activities at the two critical NSR's, viz. Long Tsai Tsuen/Hung Shing Ye and the school within the village of Tai Wan San Tsuen. The impact monitoring data for construction noise were checked against the limit levels specified in the EM&A Manual. With the availability of the construction noise permits, impact monitoring for the construction work during the restricted hours was also carried out. Section 3 presents the details of the construction noise permits.

The impact noise monitoring data were checked against the limit levels specified in the EM&A Manual. [Appendix B](#) shows the established Action/Limit Levels for noise.

#### 3.2 Monitoring Locations

In accordance with the EM&A manual, the identified noise monitoring locations of Ash Lagoon and Ching Lam are shown in [Figure 3.1](#).

#### 3.3 Monitoring Equipment

The sound level meters used for noise monitoring complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). The noise monitoring equipment used is shown in [Table 3.1](#).

Table 3.1 Noise Monitoring Equipment

Equipment	Model
Sound level meters	B&K 2250
Sound level calibrator	B&K 4231

#### 3.4 Monitoring Parameters, Frequency and Duration

Continuous alarm monitoring was carried out at Ash Lagoon and Ching Lam. The measurement duration and parameter of noise monitoring were presented in [Table 3.2](#) as follows:

Table 3.2 Noise Monitoring Duration and Parameter

Location	Time Period	Frequency	Parameter
Ash Lagoon  Ching Lam	Day-time: 0700-1900 hrs on normal weekdays	Day-time: 30 minutes	30-min $L_{Aeq}$
	Evening-time & holidays: 0700-2300 hrs on holidays; and 1900-2300 hrs on all other days	Evening-time & holidays: 5 minutes	5-min $L_{Aeq}$
	Night-time: 2300-0700 hrs of next day	Night-time: 5 minutes	5-min $L_{Aeq}$

### 3.5 Monitoring Procedures and Calibration Details

#### *Monitoring Procedures*

##### *Continuous Noise Monitoring for Lamma Extension Construction*

The measured noise levels (MNL's) were collected at the noise alarm monitoring stations at Ash Lagoon and Ching Lam. The notional background noise levels (viz. baseline noise data at Ash Lagoon and Ching Lam) were applied to correct the corresponding MNL's in 30-min/5-min  $L_{Aeq}$ .

A wind speed sensor was installed at Station Building Rooftop. The wind speed signal was used to determine whether the data from Ash Lagoon and Ching Lam noise alarm monitoring stations were affected. The instantaneous data was discarded in case the instantaneous wind speed exceeded 10 m/s. The 30-min/5-min  $L_{Aeq}$  was considered valid only if the amount of valid data was equal to or above 70%.

#### *Equipment Calibration*

The sound level meters and calibrators were verified by the manufacturer or accredited laboratory. With the endorsement of the Independent Environmental Checker, the enhancement of calibration of sound level meter at the noise monitoring stations was implemented. The monthly manual on-site calibration using sound level calibrator was replaced by the daily auto charge injection calibration function of the sound level meter. For additional quality assurance, manual on-site calibration would still be conducted for the noise monitoring stations once every 6 months. The manual on-site calibrations for Ash Lagoon and Ching Lam noise monitoring stations were carried out in February 2025 and June 2025. The next calibrations for the two corresponding noise monitoring stations were scheduled in August 2025 and December 2025.

### 3.6 Results and Observations

Continuous noise monitoring was conducted at the two monitoring stations at Ash Lagoon and Ching Lam.

All monitoring results and their graphical presentations are provided in [Appendix E](#). No exceedance of noise Action/Limit Level was recorded in the month.



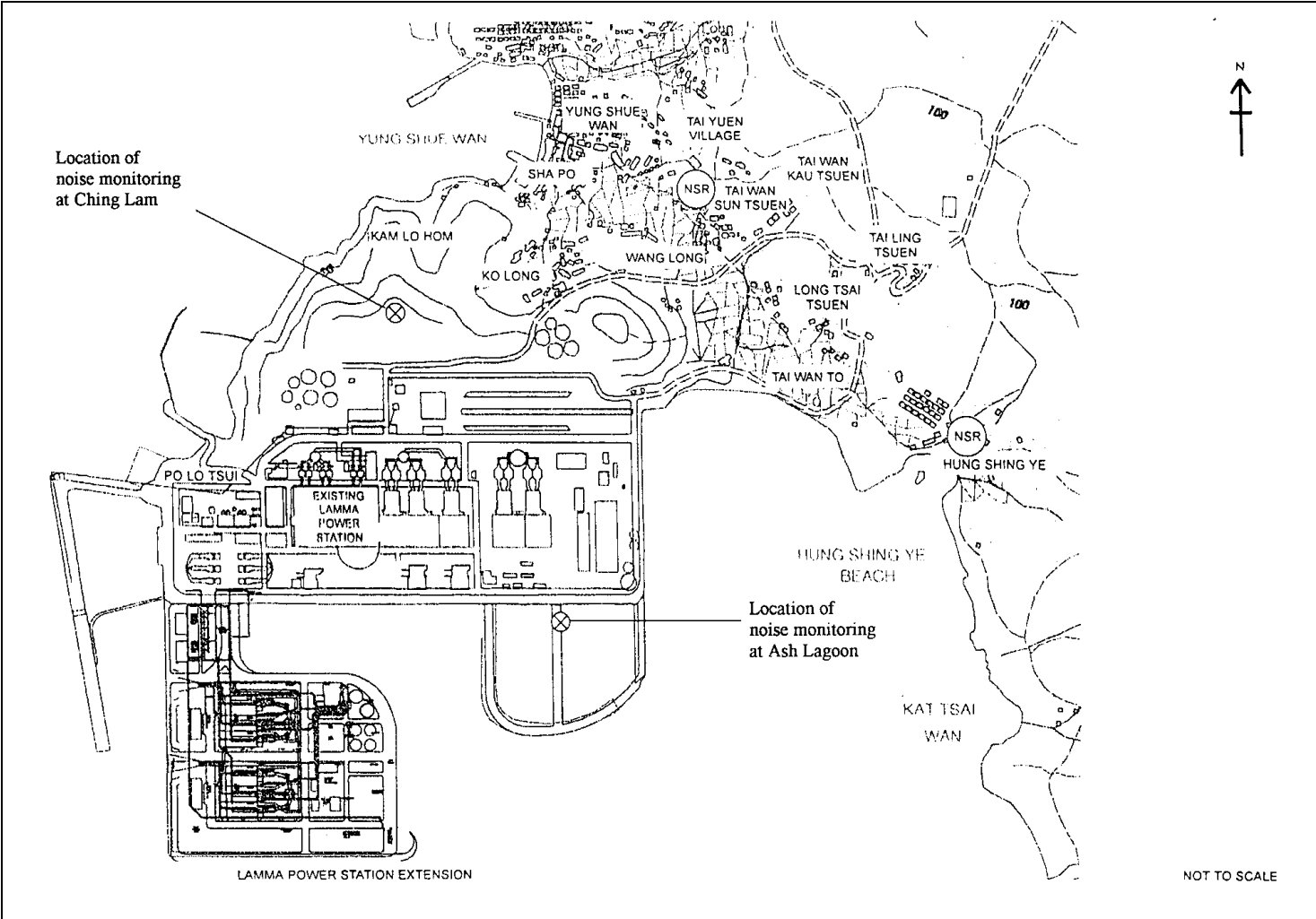


Figure 3.1 Location of Noise Monitoring Stations

## 4. ENVIRONMENTAL AUDIT

### 4.1 Review of Environmental Monitoring Procedures

The environmental monitoring procedures were regularly reviewed by the Environmental Team. No modification to the existing monitoring procedures was recommended.

### 4.2 Assessment of Environmental Monitoring Results

#### *Monitoring results for Air Quality and Noise*

The environmental monitoring results for Air Quality and Noise in the reporting month presented in Sections 2 and 3 respectively are summarized in [Table 4.1](#).

Table 4.1 Summary of AL Level Exceedances on Monitoring Parameters

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Ambient TSP (24-hour)	01/07/2025-31/07/2025	0	0	
2	Ambient TSP (1-hour)	01/07/2025-31/07/2025	0	0	
Noise					
1	Noise level at the critical NSR’s predicted by the noise alarm monitoring system	01/07/2025-31/07/2025	0	0	

### 4.3 Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Inert C&D materials comprise excavated materials and broken concrete. Non-inert C&D materials comprise general refuse, metals and paper/ cardboard packaging, plastics, chemical waste, etc.

Inert C&D material and non-inert C&D material disposed of in July 2025 are shown in [Table 4.2](#).

Table 4.2 Estimated Amounts of Waste in July 2025

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	3.49 Tonnes	0 Tonnes	0 Tonnes

The monthly waste flow tables prepared by the contractors are attached in [Appendix K](#)

#### 4.4 Site Environmental Audit

Independent Environmental Checker (IEC) conducted a site inspection on 24/7/2025. The site conditions were generally satisfactory.

Site audits were carried out by ET on a weekly basis to monitor environmental issues at the construction sites to ensure that all mitigation measures were implemented timely and properly. The site audit findings for the reporting month are summarized in [Appendix H](#). The site conditions were generally satisfactory. All required mitigation measures were implemented.

#### 4.5 Status of Environmental Licensing and Permitting

All permits/licenses obtained for the project are summarised in [Table 4.3](#).

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit No.	Valid Period		Highlights	Status
		From	To		
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid
Construction Noise Permit	GW-RS0498-25	19/05/25	18/11/25	Civil and building works for Unit L13. Operation of PME during restricted hours.	Valid
WPCO Discharge Licence	WT00046647-2025	18/07/25	31/07/30	Civil and building works for Unit L13.	Valid
Waste Disposal Billing Account	Account No.: 7054247	03/04/25	-	Civil and building works for Unit L13	Valid

#### 4.6 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the permits and the EM&A Manual (Construction Phase) are required to be implemented. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in [Appendix I](#).

#### 4.7 Implementation Status of Event/Action Plans

The Event/Action Plans extracted from the EM&A Manual (Construction Phase) are presented in [Appendix G](#).

#### 4.8 Implementation Status of Environmental Complaint Handling Procedures

In July 2025, no complaint in relation to the environmental impact of the construction activities was received.

Table 4.4 Environmental Complaints Received in July 2025

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

Table 4.5 Outstanding Environmental Complaints Carried Over

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

## **5. FUTURE KEY ISSUES**

### **5.1 Key Issues for the Coming Month**

Key issues to be considered in the coming month include:

#### Unit L13 Civil and Building Works

##### *Noise Impact*

- To continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained.

##### *Air Impact*

- To monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

##### *Water Impact*

- To treat wastewater in sedimentation tank for reuse on construction activities and to ensure compliance with the WPCO discharge licence already obtained.

### **5.2 Monitoring Schedules for the Next 3 Months**

The tentative environmental monitoring schedules for the next 3 months are shown in [Appendix C](#).

### **5.3 Construction Program for the Next 3 Months**

The tentative construction programs for the next 3 months are shown in [Appendix J](#).

## **6. CONCLUSION**

All monitoring work at designated stations was performed as scheduled satisfactorily. The environmental monitoring works and site inspection were performed as scheduled in the reporting month. All monitoring results were checked and reviewed.

No Action/Limit level exceedance on 1-hour and 24-hour TSP level was recorded in the reporting month.

No Action/Limit level exceedance on noise was recorded in the reporting month.

Environmental mitigation measures recommended in the EM&A manual for the construction activities were implemented in the reporting month. No complaint in relation to the environmental impact of the construction activities was received in the reporting month. No prosecution was received for this Project in the reporting period.

The environmental performance of the Project was generally satisfactory.

## Appendix A Organization Chart

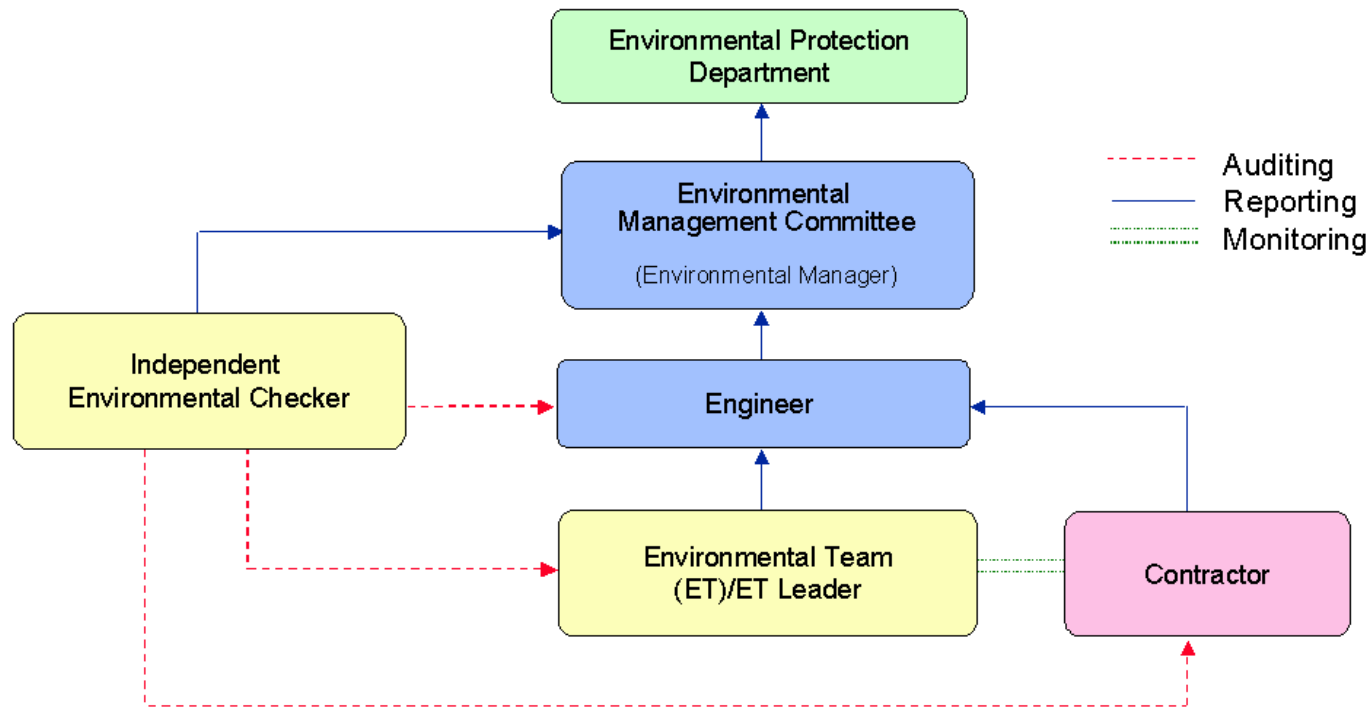


Figure A.1 Organisation of EM&A Programme at Construction Phase

## Appendix B Action and Limit Levels for Air Quality and Noise Monitoring

### B.1. Air

Table B.1 Action and Limit Levels for 1-hour and 24-hour TSP

	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
1-hour TSP*	340	500
24-hour TSP	190	260

\* No Action/Limit Level for 1-hour TSP is applied to AM4 where no real time dust monitor is installed.

### B.2. Noise

Table B.2 AL Levels for Construction Noise (Other than Percussive Piling)

Parameters	Action	Limit
Noise Levels at the NSR's at Long Tsai Tsuen/Hung Shing Ye and school within the village of Tai Wan San Tsuen predicted by the noise alarm monitoring system	When one or more documented complaints are received	a. 75 dB(A) in $L_{Aeq,30 \text{ min}}$ (07:00-19:00 hrs on normal weekdays) (Note 1)
Manual noise monitoring at the nearest Pak Kok Tsui residences to cable landing points N4 and N5		b. subject to statutory control under the Noise Control Ordinance (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days). Set to 60 dB(A) in $L_{Aeq,5 \text{ min}}$
		c. subject to statutory control under the Noise Control Ordinance (23:00-07:00 hrs of next day). Set to 45 dB(A) in $L_{Aeq,5 \text{ min}}$
Note: 1. For educational institution, the limit level shall be 70 dB(A), reduced to 65 dB(A) during examination periods.		



## Appendix C Environmental Monitoring Schedule

Table C.1 Monitoring schedule for 24hr and 1hr TSP monitoring for Lamma Extension Construction (July 2025 to October 2025)

24hr TSP Monitoring	1hr TSP Monitoring
2/July/2025	2/July/2025 1500hr to 1800hr
8/July/2025	8/July/2025 1500hr to 1800hr
14/July/2025	14/July/2025 1500hr to 1800hr
20/July/2025	20/July/2025 1500hr to 1800hr
26/July/2025	26/July/2025 1500hr to 1800hr
1/August/2025	1/August/2025 1500hr to 1800hr
7/August/2025	7/August/2025 1500hr to 1800hr
13/August/2025	13/August/2025 1500hr to 1800hr
19/August/2025	19/August/2025 1500hr to 1800hr
25/August/2025	25/August/2025 1500hr to 1800hr
31/August/2025	31/August/2025 1500hr to 1800hr
6/September/2025	6/September/2025 1500hr to 1800hr
12/September/2025	12/September/2025 1500hr to 1800hr
18/September/2025	18/September/2025 1500hr to 1800hr
24/September/2025	24/September/2025 1500hr to 1800hr
30/September/2025	30/September/2025 1500hr to 1800hr
6/October/2025	6/October/2025 1500hr to 1800hr
12/October/2025	12/October/2025 1500hr to 1800hr
18/October/2025	18/October/2025 1500hr to 1800hr
24/October/2025	24/October/2025 1500hr to 1800hr
30/October/2025	30/October/2025 1500hr to 1800hr

## APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: July 2025

24 hour TSP Measurement:-

Date	TSP concentration ( $\mu\text{g}/\text{m}^3$ )				Weather Information (From Hong Kong Observatory)		
	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir. (°)	Mean R.H. (%)
2/7/2025	20	19	21	11	18.0	80	80
8/7/2025	20	81	22	11	27.9	240	76
14/7/2025	24	22	28	17	12.3	240	79
20/7/2025	21	27	27	8	61.3	110	91
26/7/2025	40	36	42	19	19.3	240	74

1 hour TSP Measurement:-

Date	Time	TSP concentration ( $\mu\text{g}/\text{m}^3$ )		
		Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)
2/7/2025	15:00 - 15:59	16	25	17
	16:00 - 16:59	25	22	19
	17:00 - 17:59	22	16	32
8/7/2025	15:00 - 15:59	17	33	41
	16:00 - 16:59	16	38	17
	17:00 - 17:59	16	46	31
14/7/2025	15:00 - 15:59	25	21	67
	16:00 - 16:59	40	21	37
	17:00 - 17:59	21	17	37
20/7/2025	15:00 - 15:59	24	24	31
	16:00 - 16:59	22	21	12
	17:00 - 17:59	18	24	30
26/7/2025	15:00 - 15:59	51	39	52
	16:00 - 16:59	43	38	46
	17:00 - 17:59	33	42	54

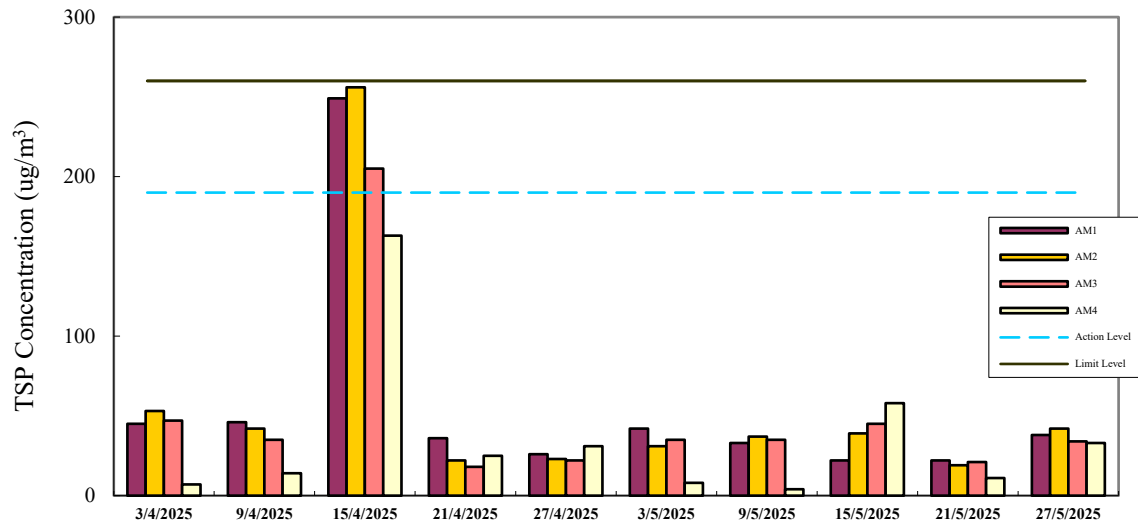
	1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	24-hr TSP ( $\mu\text{g}/\text{m}^3$ )
Action Level	340	190
Limit Level	500	260

Calibration: Calibration details are shown in appendix F.

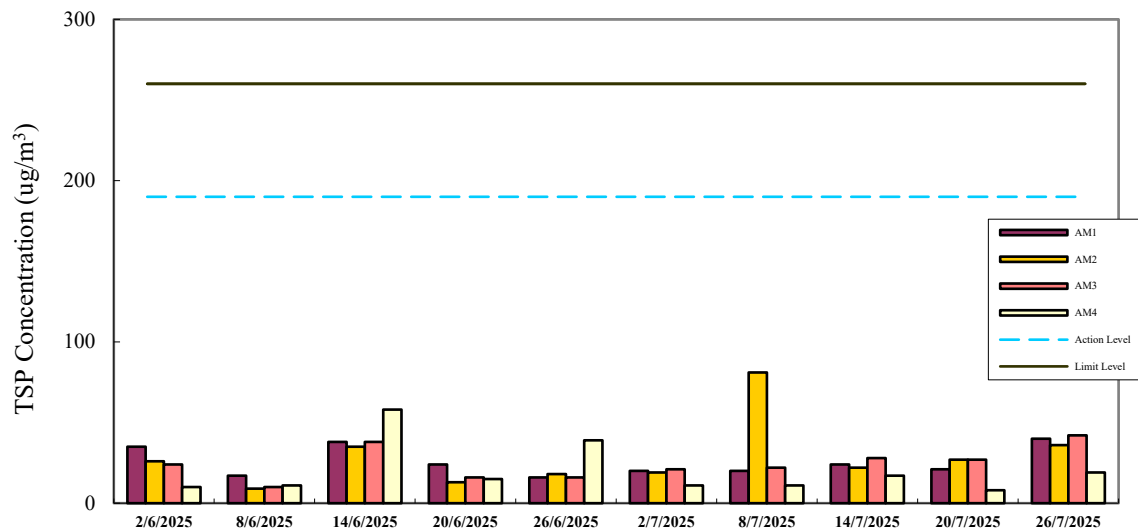
Equipment used:

Location	1-hr TSP	24-hr TSP
Reservoir, East Gate and Ash Lagoon	TEOM	TEOM
Tai Yuen Village	-	MINIVOL Portable Sampler

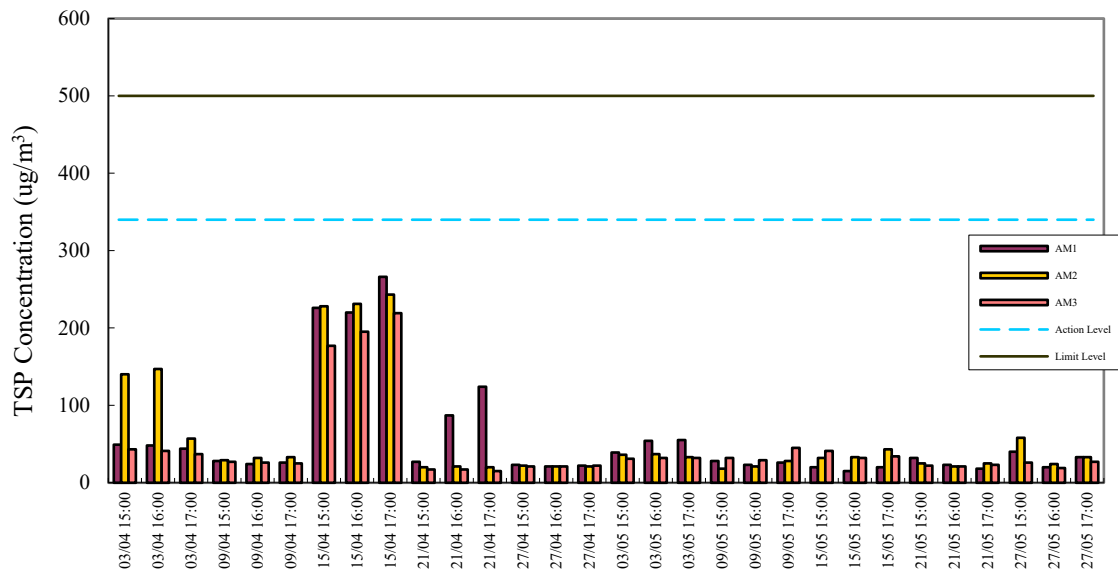
24-hr TSP Air Monitoring Data (April 2025 - May 2025)



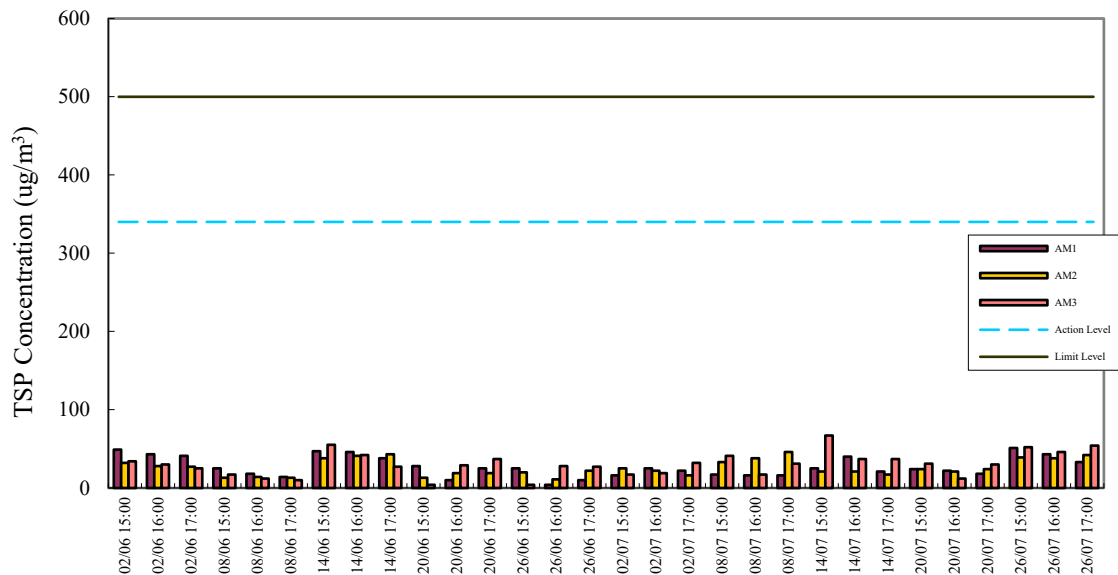
24-hr TSP Air Monitoring Data (June 2025 - July 2025)



1-hr TSP Air Monitoring Data (April 2025 - May 2025)



1-hr TSP Air Monitoring Data (June 2025 - July 2025)



**Appendix E****Continuous Noise Monitoring Results for July 2025**

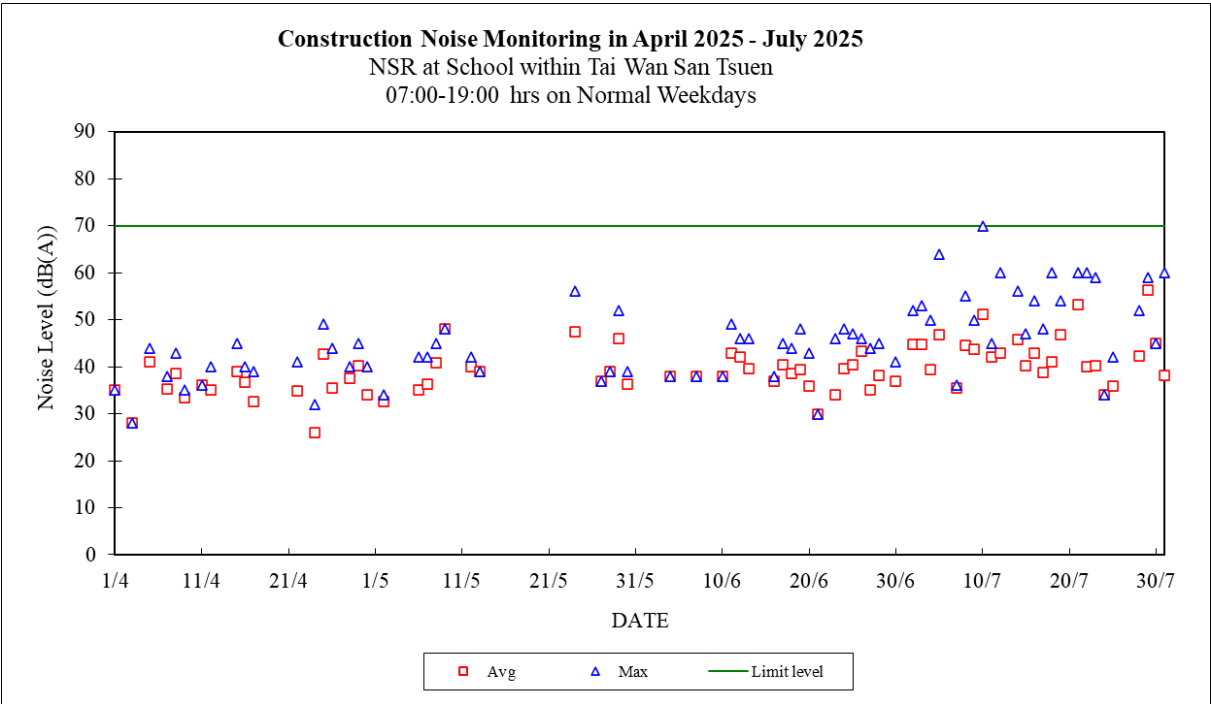
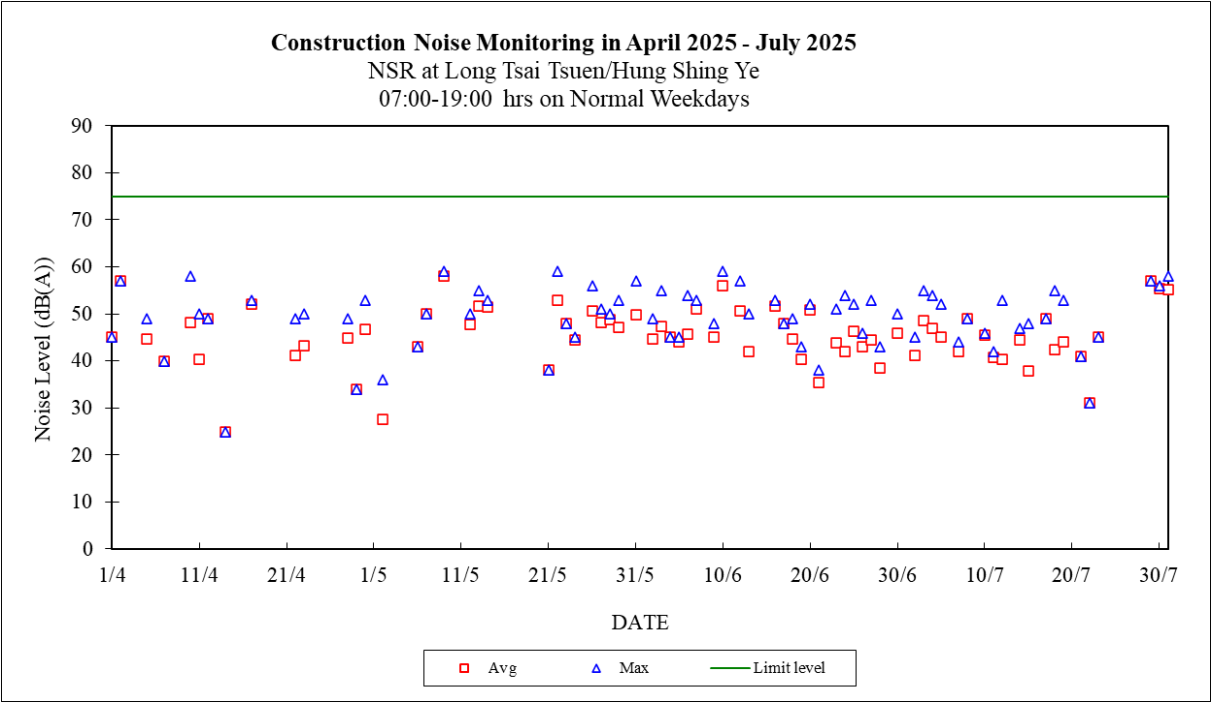
Site: Lamma Power Station Extension Construction  
Measurement Location: Ash Lagoon and Ching Lam  
Measurement Parameter: 30-min Leq (07:00-19:00 hrs on normal weekdays)  
5-min Leq (07:00-23:00 hrs on holidays and  
19:00-23:00 hrs on all other days, and 23:00-  
07:00 hrs of next day)  
Noise Equipment: B&K 2250 sound level meters and B&K 4231 sound  
Level calibrator  
Lab. Calibration Date: B&K 2250 sound level meters - 18/6/2024 (Ash Lagoon)  
7/5/2025 (Ching Lam)  
B&K 4231 calibrator (7/5/2025)

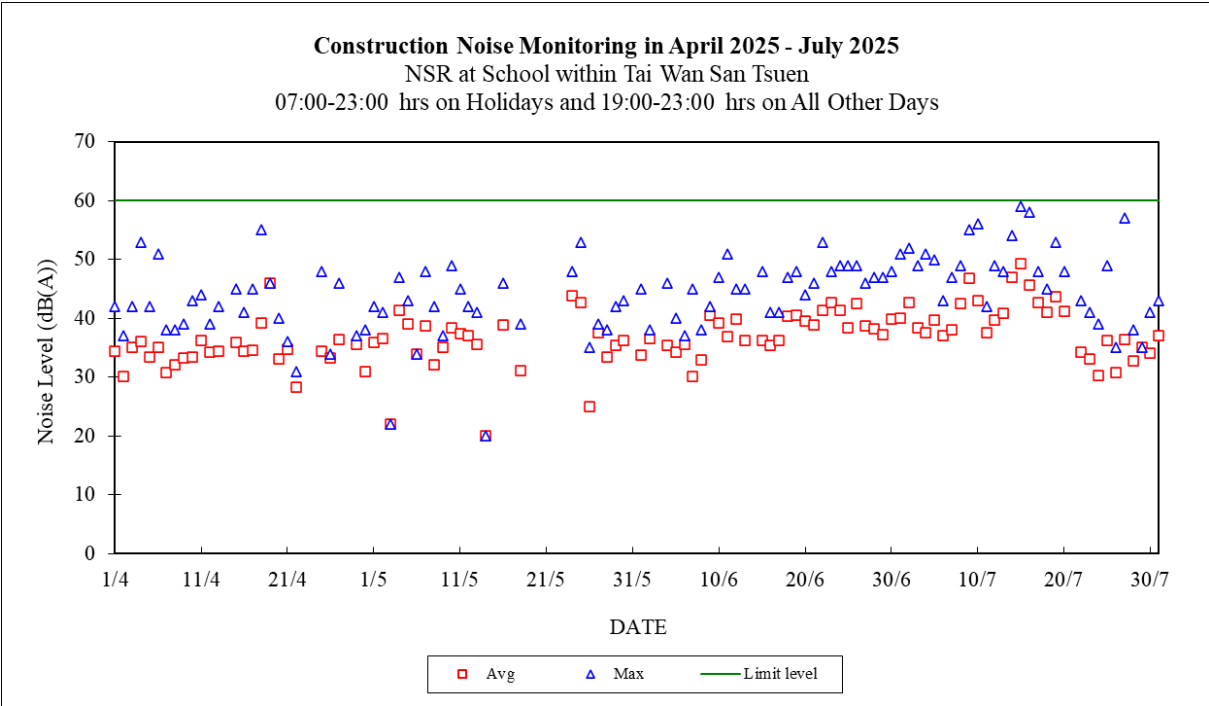
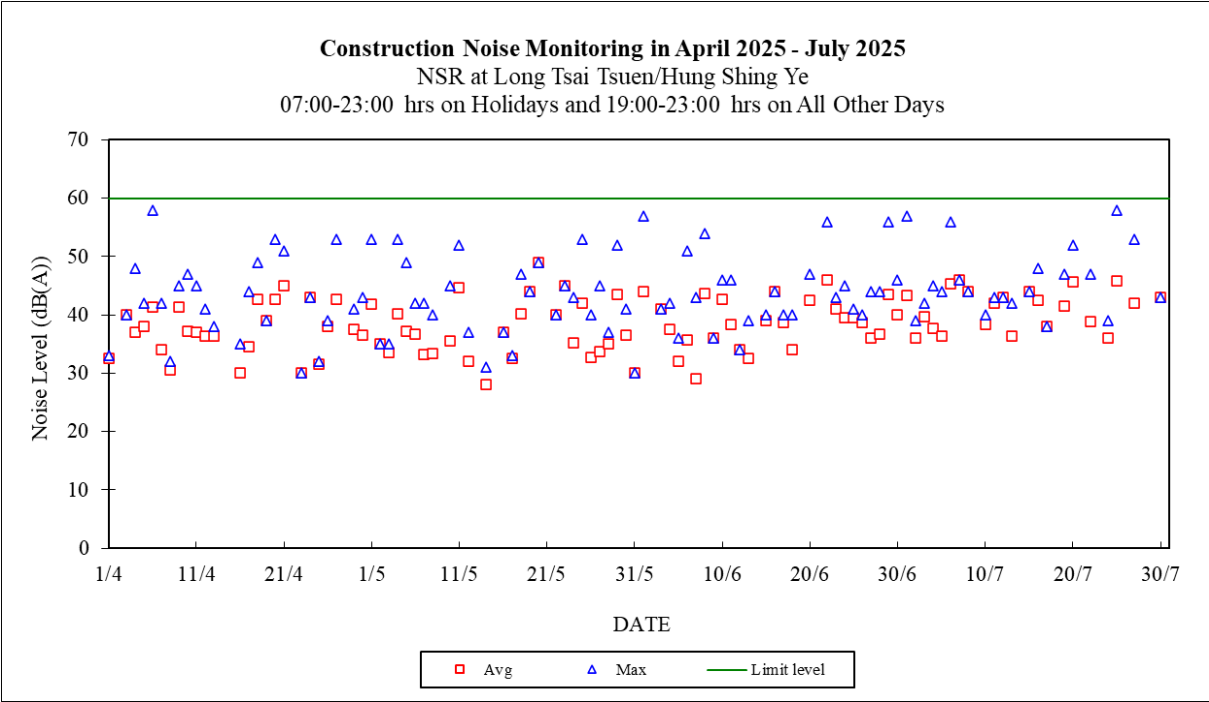
Date	Time	Calculated Noise Level at NSR at Long Tsai Tsuen/Hung Shing Ye (dB(A))		Limit Noise Level (dB(A))	Calculated Noise Level at NSR at the school within Tai Wan San Tsuen (dB(A))		Limit Noise Level (dB(A))
		Max	Avg		Max	Avg	
1/07/2025	07:00-23:00	57	43	60	51	40	60
1/07/2025	23:00-07:00	45	37	45	45	40	45
2/07/2025	07:00-19:00	45	41	75	52	45	70
2/07/2025	19:00-23:00	39	36	60	52	43	60
2/07/2025	23:00-07:00	42	40	45	44	35	45
3/07/2025	07:00-19:00	55	49	75	53	45	70
3/07/2025	19:00-23:00	42	40	60	49	38	60
3/07/2025	23:00-07:00	45	39	45	43	38	45
4/07/2025	07:00-19:00	54	47	75	50	39	70
4/07/2025	19:00-23:00	45	38	60	51	38	60
4/07/2025	23:00-07:00	45	38	45	45	38	45
5/07/2025	07:00-19:00	52	45	75	64	47	70
5/07/2025	19:00-23:00	44	36	60	50	40	60
5/07/2025	23:00-07:00	43	37	45	45	39	45
6/07/2025	07:00-23:00	56	45	60	43	37	60
6/07/2025	23:00-07:00	43	43	45	41	39	45
7/07/2025	07:00-19:00	44	42	75	36	36	70
7/07/2025	19:00-23:00	46	46	60	47	38	60
7/07/2025	23:00-07:00	45	45	45	45	38	45
8/07/2025	07:00-19:00	49	49	75	55	45	70
8/07/2025	19:00-23:00	44	44	60	49	43	60
8/07/2025	23:00-07:00	44	37	45	45	38	45
9/07/2025	07:00-19:00	---	---	75	50	44	70
9/07/2025	19:00-23:00	---	---	60	55	47	60
9/07/2025	23:00-07:00	44	40	45	45	39	45
10/07/2025	07:00-19:00	46	46	75	70	51	70
10/07/2025	19:00-23:00	40	38	60	56	43	60
10/07/2025	23:00-07:00	41	35	45	45	42	45
11/07/2025	07:00-19:00	42	41	75	45	42	70
11/07/2025	19:00-23:00	43	42	60	42	38	60
11/07/2025	23:00-07:00	45	39	45	44	39	45
12/07/2025	07:00-19:00	53	40	75	60	43	70
12/07/2025	19:00-23:00	43	43	60	49	40	60
12/07/2025	23:00-07:00	33	33	45	45	41	45
13/07/2025	07:00-23:00	42	36	60	48	41	60
13/07/2025	23:00-07:00	45	33	45	44	36	45
14/07/2025	07:00-19:00	47	45	75	56	46	70

14/07/2025	19:00-23:00	---	---	60	54	47	60
14/07/2025	23:00-07:00	36	36	45	45	39	45
15/07/2025	07:00-19:00	48	38	75	47	40	70
15/07/2025	19:00-23:00	44	44	60	59	49	60
15/07/2025	23:00-07:00	43	32	45	45	40	45
16/07/2025	07:00-19:00	---	---	75	54	43	70
16/07/2025	19:00-23:00	48	43	60	58	46	60
16/07/2025	23:00-07:00	30	30	45	45	40	45
17/07/2025	07:00-19:00	49	49	75	48	39	70
17/07/2025	19:00-23:00	38	38	60	48	43	60
17/07/2025	23:00-07:00	---	---	45	45	40	45
18/07/2025	07:00-19:00	55	43	75	60	41	70
18/07/2025	19:00-23:00	---	---	60	45	41	60
18/07/2025	23:00-07:00	39	39	45	45	40	45
19/07/2025	07:00-19:00	53	44	75	54	47	70
19/07/2025	19:00-23:00	47	42	60	53	44	60
19/07/2025	23:00-07:00	---	---	45	45	39	45
20/07/2025	07:00-23:00	52	46	60	48	41	60
20/07/2025	23:00-07:00	---	---	45	42	42	45
21/07/2025	07:00-19:00	41	41	75	60	53	70
21/07/2025	19:00-23:00	---	---	60	---	---	60
21/07/2025	23:00-07:00	37	36	45	41	34	45
22/07/2025	07:00-19:00	31	31	75	60	40	70
22/07/2025	19:00-23:00	47	39	60	43	34	60
22/07/2025	23:00-07:00	45	37	45	44	38	45
23/07/2025	07:00-19:00	45	45	75	59	40	70
23/07/2025	19:00-23:00	---	---	60	41	33	60
23/07/2025	23:00-07:00	44	44	45	44	39	45
24/07/2025	07:00-19:00	---	---	75	34	34	70
24/07/2025	19:00-23:00	39	36	60	39	30	60
24/07/2025	23:00-07:00	42	42	45	29	23	45
25/07/2025	07:00-19:00	---	---	75	42	36	70
25/07/2025	19:00-23:00	58	46	60	49	36	60
25/07/2025	23:00-07:00	32	32	45	45	40	45
26/07/2025	07:00-19:00	---	---	75	---	---	70
26/07/2025	19:00-23:00	---	---	60	35	31	60
26/07/2025	23:00-07:00	45	41	45	30	30	45
27/07/2025	07:00-23:00	53	42	60	57	36	60
27/07/2025	23:00-07:00	---	---	45	13	13	45
28/07/2025	07:00-19:00	---	---	75	52	42	70
28/07/2025	19:00-23:00	---	---	60	38	33	60
28/07/2025	23:00-07:00	42	38	45	39	32	45
29/07/2025	07:00-19:00	57	57	75	59	56	70
29/07/2025	19:00-23:00	---	---	60	35	35	60
29/07/2025	23:00-07:00	45	39	45	43	39	45
30/07/2025	07:00-19:00	56	55	75	45	45	70
30/07/2025	19:00-23:00	43	43	60	41	34	60
30/07/2025	23:00-07:00	28	28	45	42	37	45
31/07/2025	07:00-19:00	58	55	75	60	38	70
31/07/2025	19:00-23:00	---	---	60	43	37	60
31/07/2025	23:00-07:00	42	36	45	45	38	45

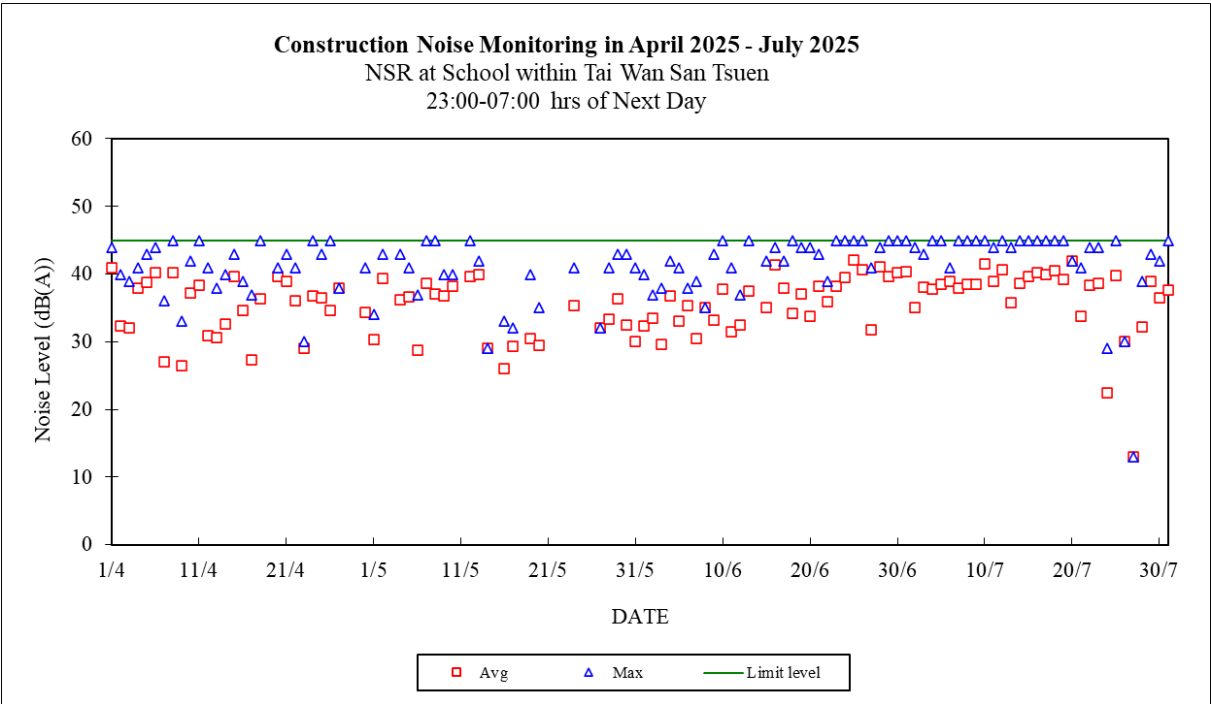
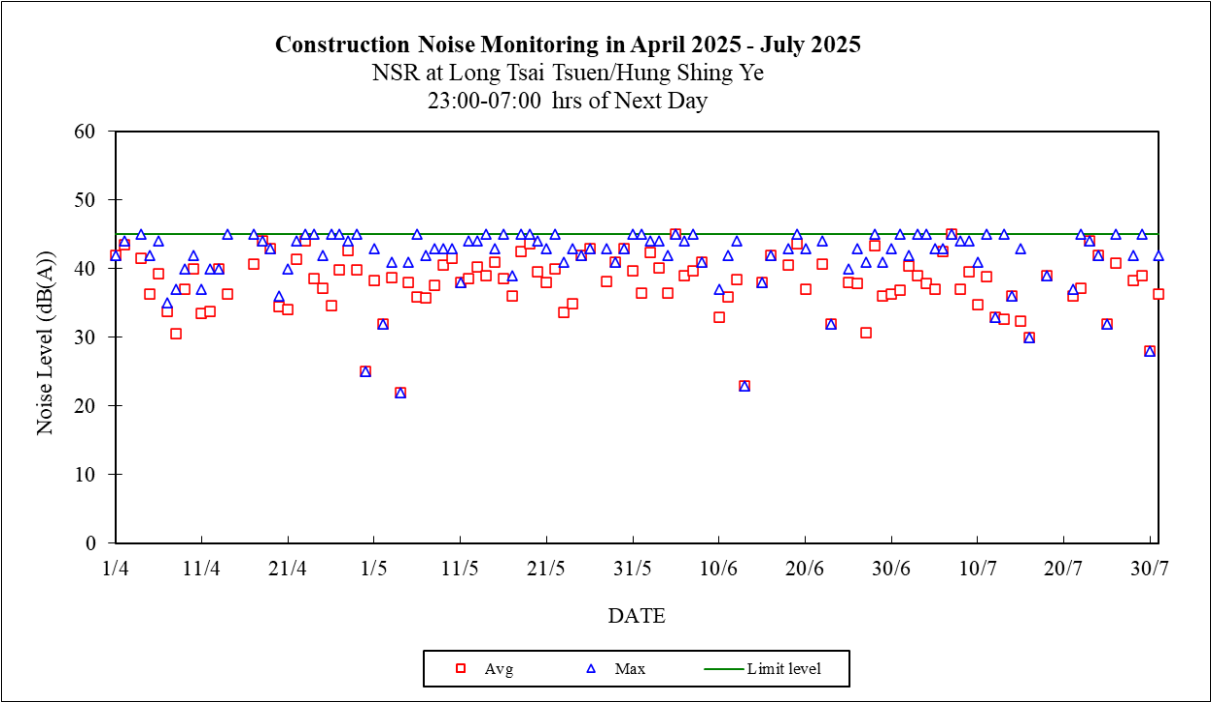
Note:

- "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.
- Continuous noise monitoring was also carried out at holidays & evening-time (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time (23:00-07:00 hrs of next day).









# Appendix F

## The QA/QC Procedures and Results

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station Extension**  
**TEOM Continuous Dust Monitor**  
**Data Quality Assurance Log Sheet**

Month: July

Year: 2025

Reservoir (AM1)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)
2/7/2025	259.714	4	2.97	13.51
8/7/2025	261.025	4	2.93	13.36
14/7/2025	260.643	4	2.95	13.43
20/7/2025	260.236	4	2.93	13.37
26/7/2025	259.873	4	2.93	13.37

East Gate (AM2)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)
2/7/2025	257.393	4	3.00	13.66
8/7/2025	256.913	4	3.00	13.66
14/7/2025	256.365	4	3.00	13.66
20/7/2025	255.915	4	3.00	13.66
26/7/2025	257.974	4	3.00	13.66

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)
2/7/2025	260.281	4	3.00	13.67
8/7/2025	260.004	4	3.00	13.67
14/7/2025	259.686	4	3.00	13.67
20/7/2025	259.352	4	3.00	13.67
26/7/2025	260.002	4	3.00	13.67

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter	✓	✓	✓
Pump Repair			
Leak Check			
Flow audit			
Flow Controller Calibration			
A/C filter cleaning			

Remarks:

Prepared by: Chris Chan

Checked by: HY Chan

**The Hongkong Electric Co., Ltd.**  
**Mini Volume Air Sampler Site Visit Log Sheet**

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
24/7/2025 / 15:00	Alex Ng

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used Filter Paper No.	MT94
New Filter Paper No.	MT95

Type of Filter: Glass-fibre

- I. Calibration is performed by using Drycal DC-2 Flow Calibrator  
5 std. L/min set point is recommended

Before:	<u>5.00</u>
After:	<u>5.00 (No Adjustment)</u>

- II. General Services

1. Clean Rotameter:	<u>Yes</u>
2. Clean / Replace Pump Valves:	<u>No</u>
3. Clean / Replace Pump Diaphragms:	<u>No</u>
4. Clean Impaction Inlet:	<u>Yes</u>
5. Replace Timer Battery Every 6 months:	<u>Yes</u>
6. Replace Inlet Filter:	<u>Yes</u>

- III. Remarks

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Conducted by: Alex Ng Checked by: SM Hon

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station Extension**  
**Noise Monitoring Station**  
**Daily Calibration Records**

Date	Location: Ash Lagoon		Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/07/2025	Passed	0.06	Passed	0.01
02/07/2025	Passed	0.07	Passed	0.05
03/07/2025	Passed	0.06	Passed	0.05
04/07/2025	Passed	0.07	Passed	0.04
05/07/2025	Passed	0.07	Passed	0.02
06/07/2025	Passed	0.06	Passed	0.06
07/07/2025	Passed	0.08	Passed	0.04
08/07/2025	Passed	0.07	Passed	0.05
09/07/2025	Passed	0.05	Passed	0.09
10/07/2025	Passed	0.02	*	*
11/07/2025	Passed	0.06	Passed	0.03
12/07/2025	Passed	0.05	Passed	0.02
13/07/2025	Passed	0.06	Passed	0.04
14/07/2025	Passed	0.06	Passed	0.04
15/07/2025	Passed	0.05	Passed	0.06
16/07/2025	Passed	0.07	Passed	0.03
17/07/2025	Passed	0.08	Passed	0.03
18/07/2025	Passed	0.05	Passed	0.00
19/07/2025	Passed	0.06	Passed	0.09
20/07/2025	Passed	0.05	*	*
21/07/2025	Passed	0.06	Passed	0.24
22/07/2025	Passed	0.04	Passed	-0.02
23/07/2025	Passed	0.07	Passed	0.02
24/07/2025	Passed	0.08	Passed	0.03
25/07/2025	Passed	0.04	Passed	-0.04
26/07/2025	Passed	0.05	Passed	0.01
27/07/2025	Passed	0.06	Passed	0.03
28/07/2025	Passed	0.04	Passed	0.00
29/07/2025	Passed	0.04	Passed	0.01
30/07/2025	Passed	0.05	Passed	0.05
31/07/2025	Passed	0.05	Passed	0.05

Remarks:

1. CIC calibration record of 10 July 2025 and 20 July 2025 at Ching Lam Noise Monitoring Station was lost due to the error in downloading the noise data.
2. The B&K sound level meter at the noise monitoring station has an advanced feature of internal calibration checking (viz. Charge Injection Calibration (CIC)). CIC is a B&K patented method for in situ verification of the integrity of the entire sound measurement chain (including microphone, preamplifier and cabling).
3. The acceptance criterion of deviation from reference is  $\pm 0.5$  dB.

## Appendix G Event/Action Plans

Table G.1 Event and Action Plans for Air Quality

Event	Monitoring	Action		
	ET Leader	IEC	Engineer	Contractor
<b>Action Level</b>				
Exceedance of one sample	Identify source Inform Engineer and IEC verbally Repeat measurement to confirm finding	Check monitoring data submitted by ET and advise Engineer.	Notify Contractor Checking monitoring data and contractor's working methods	Rectify any unacceptable practice amend any working methods if appropriate
Exceedance of two or more consecutive samples	Identify source Inform Engineer and IEC verbally Repeat measurement to confirm finding Increase monitoring frequency Discuss with Engineer and Contractor on remedial actions required If exceedance continues, arrange meeting with Engineer If exceedance stops, discontinue additional monitoring	Check monitoring data submitted by ET and advise Engineer. Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Confirm receipt of notification of failure in writing Notify contractor Checking monitoring data and contractor's working methods Discuss proposed remedial actions with the ET and Contractor Ensure remedial actions properly implemented	Submit proposals for remedial actions to Engineer within 3 working days of notifications Implement the agreed proposals Amend proposal if appropriate
<b>Limit level</b>				
Exceedance of one sample	Repeat measurement to confirm finding. Identify the source(s) of the impact. If the exceedance is found to be valid and due to the Construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance, as soon as practicable. Increase monitoring frequency to daily Assess the effectiveness of the contractor's remedial actions and keep Engineer, IEC and EPD informed of the results	Check monitoring data submitted by ET and advise Engineer Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Confirm receipt of notification of failure in writing Notify Contractor Checking monitoring data and Contractor's working method Discuss with ET and Contractor on remedial actions to be provided Ensure remedial measures properly implemented	Take immediate action to avoid further exceedance Submit proposals for remedial actions to Engineer within 3 working days of notifications Implement the agreed proposals Amend proposal if appropriate
Exceedance of two or more	Identify source	Provide feedback to the Engineer on the remedial actions proposed by the	Confirm receipt of notification of	Take immediate action to

Event	Monitoring		Action	
	ET Leader	IEC	Engineer	Contractor
consecutive samples	<p>If the exceedance is found to be valid and due to the construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance as soon as practicable.</p> <p>Repeat measurement to confirm finding</p> <p>Increase monitoring frequency to daily</p> <p>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented</p> <p>Arrange meeting with Engineer and Contractor to discuss the remedial actions to be taken</p> <p>If exceedance stops, discontinue additional monitoring</p>	<p>ET / Contractor</p> <p>Advise Engineer on the effectiveness of the proposed remedial measures</p> <p>Verify the implementation of the remedial measures</p>	<p>failure in writing</p> <p>Checking monitoring data and Contractor's working methods</p> <p>Notify Contractor</p> <p>Discuss proposed remedial actions with ET and Contractor</p> <p>Ensure remedial measures properly implemented</p> <p>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop the portion of work until the exceedance is abated</p>	<p>avoid further exceedance</p> <p>Submit proposals for remedial actions to Engineer within 3 working days of notifications</p> <p>Implement the agreed proposals</p> <p>Resubmit proposals if problem still not under control</p> <p>Stop the relevant portion of works as determined by the Engineer until the exceedance is abated</p>

Table G.2 Event and Action Plans for Construction Noise

Exceedance	ET Leader	IEC	Engineer	Contractor
<b>Action Level</b>	Undertake noise measurement/check monitoring data to establish validity of complaint.	Review the analysed results submitted by the ET.	Notify Contractor of the complaint if proven.	Submit proposals for remedial actions to Engineer.
	If the complaint is valid, inform Engineer and IEC verbally.	Review the remedial measures proposed by the Contractor and advise the Engineer and ET accordingly.	Check Contractor's working methods and advise IEC and ET accordingly.	Amend proposals if required by the Engineer.
	Identify the source(s) of the noise.	Verify the implementation of the remedial measures.	Remind the Contractor of his contractual obligations and discuss remedial actions.	Implement the remedial actions immediately upon instruction from the Engineer.
	Discuss remedial actions required with Contractor and Engineer.		Keep the Contractor informed of the efficacy of remedial actions.	Liaise with the Engineer to optimise the effectiveness of the agreed mitigation.
	Increase manual monitoring frequency to assess efficacy of remedial measures.			
	If exceedance continues, review implementation of appropriate mitigation measures.			
<b>Limit Level</b>	Repeat manual measurement/check monitoring data to confirm findings.	Agree potential remedial actions with Engineer, ET and Contractor.	Notify Contractor of exceedance.	Take immediate action to avoid further exceedance.
	Identify the source(s) of the impact. If the exceedance is found to be valid and due to the Construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance, as soon as practicable.	Review Contractor's remedial actions / measures to ensure their effectiveness and advise the Engineer and ET accordingly.	Check Contractor's working methods and advise IEC and ET accordingly.	Submit proposals for remedial actions to Engineer.
	Discuss remedial actions required with Engineer.	Verify the implementation of the remedial measures	Discuss with Contractor the remedial actions to be implemented.	Amend proposals if required by the Engineer.
	Increase manual monitoring frequency to assess efficacy of remedial measures.		Keep the Contractor informed of the efficacy of remedial actions. If the exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop the portion of work until the exceedance is abated	Implement remedial actions immediately upon instruction from the Engineer. If the exceedance continues, consider what portion of the work is responsible and, as instructed by the Engineer, stop the portion of work until the exceedance is abated



Table G.3 Event and Action Plans for Water Quality

Exceedance	ET Leader	IEC	Engineer	Contractor
Action level exceeded on one sampling day	Verbally inform the Contractor, and IEC. Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with Engineer and Contractor; Repeat measurement on next day of exceedance.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose and discuss mitigation measures with Engineer; Implement the agreed mitigation measures.
Action level exceeded on more than one consecutive sampling day	Repeat in-situ measurements to confirm findings; Identify source(s) of impact; Inform Contractor and IEC; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with Engineer and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of exceedance.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with ET and Contractor on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with ET and Engineer; Implement the agreed mitigation measures.
Limit level exceeded on one sampling day	Verbally inform the Contractor, IEC and the EPD of the exceedance; Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Check monitoring data, all plant,	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer

Exceedance	ET Leader	IEC	Engineer	Contractor
	<p>equipment and Contractor's working methods;</p> <p>Discuss mitigation measure with Engineer and Contractor;</p> <p>Ensure mitigation measures are implemented;</p> <p>Increase the monitoring frequency to daily until no exceedance of Limit level.</p>		<p>implemented mitigation measures.</p>	<p>within 3 working days and discuss with Engineer;</p> <p>Implement the agreed mitigation measures.</p>
Limit level exceeded by more than one consecutive sampling day	<p>Repeat in-situ measurement to confirm findings;</p> <p>Identify source(s) of impact;</p> <p>Inform Contractor, IEC and EPD;</p> <p>Check monitoring data, all plant, equipment and Contractor's working methods;</p> <p>Discuss mitigation measure with Engineer and Contractor;</p> <p>Ensure mitigation measures are implemented;</p> <p>Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</p>	<p>Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor</p> <p>Advise Engineer on the effectiveness of the proposed remedial measures</p> <p>Verify the implementation of the remedial measures</p>	<p>Discuss with Contractor on the proposed mitigation measures;</p> <p>Request Contractor to critically review the working methods;</p> <p>Make agreement on the mitigation measures to be implemented;</p> <p>Assess the effectiveness of the implemented mitigation measures;</p> <p>Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine works until no exceedance of the Limit Level.</p>	<p>Inform the Engineer and confirm notification of the non-compliance in writing;</p> <p>Rectify unacceptable practice;</p> <p>Check all plant and equipment; Consider changes of working methods;</p> <p>Propose mitigation measures to Engineer within 3 working days and discuss with Engineer;</p> <p>Implement the agreed mitigation measures..</p> <p>As directed by the Engineer, to slow down or to stop all or part of the marine work</p>

## **Appendix H Summary of Site Audit Findings**

### L13 Civil and Building Works

Dates of Inspection: 2/7/2025, 8/7/2025, 15/7/2025, 24/7/2025 and 30/7/2025.

#### Summary of Findings

##### *General*

- No environmental deficiency identified.

##### *Air Quality*

- No environmental deficiency identified.

##### *Noise*

- No environmental deficiency identified.

##### *Water Quality*

- No environmental deficiency identified.

##### *Waste Management*

- No environmental deficiency identified.

## Summary of EMIS

### Power Station – (Part B of EIA Report)

#### Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	<b>AIR QUALITY</b>	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as: <ul style="list-style-type: none"> <li>the haul roads shall be sprayed with water to keep the entire road surface wet.</li> <li>the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.</li> <li>the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.</li> </ul>	C C C
A2	For the concrete batching plant, the following control measures are recommended: <ul style="list-style-type: none"> <li>loading, unloading, handling, transfer or storage of any dusty materials shall be carried out in a totally enclosed system.</li> <li>The materials which may generate airborne dust emissions shall be wetted by water spray system.</li> <li>All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.</li> <li>All conveyor transfer points shall be totally enclosed.</li> </ul>	C C C C
	<b>WATER QUALITY</b>	
B1	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging. **	N/A
B3	As a necessary operational constraint combined bulk dredging and sand filling for site formation shall not be permitted at any time. In addition, sand filling for site platform shall take place behind constructed sea walls which pierce the water surface. **	N/A
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay. **	N/A
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
B6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented: ** <ul style="list-style-type: none"> <li>reducing the number of dredgers working at any one time;</li> <li>reducing the rate of working of the dredgers;</li> <li>temporary suspension of operations;</li> <li>phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle.</li> </ul>	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
B7	<p>In addition to the above specific measures the following general working procedures shall be adopted. **</p> <ul style="list-style-type: none"> <li>fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;</li> <li>the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;</li> <li>barges shall be loaded carefully to avoid splashing of material;</li> <li>all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;</li> <li>all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;</li> <li>the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;</li> <li>"rainbowing" sand fill from trailer dredgers shall not be permitted; and</li> <li>the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.</li> </ul>	
		N/A
		N/A
		N/A
		N/A
		N/A
		N/A
		N/A
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels. **	N/A
	<b>NOISE</b>	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	C
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PME's to less sensitive time periods.	C
C3	Mitigate against night time noise from dredging equipment, with silencers or mufflers. **	N/A
	<b>LANDSCAPE &amp; VISUAL IMPACTS</b>	
D1	<p>The following mitigation measures shall be allowed for landscape and visual improvement:</p> <ul style="list-style-type: none"> <li>Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look.</li> <li>Break the mass of main buildings by varying the height/division into smaller units.</li> <li>Plant trees and vegetation for screening.</li> <li>Adopt colour scheme to blend the buildings into the scenery.</li> </ul>	
		C
		C
		C
		C

EM&A Log Ref.	Mitigation Measures	Implementation Status
	<b>WASTE MANAGEMENT</b>	
E1	HEC to submit a Waste Management Plan for the construction phase to EPD. The Plan shall be verified by the IEC and shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommendations of the EIA report.	C
	<i>Dredging Waste</i>	
E2	All vessels for marine transportation of dredged sediment shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials. In addition, loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water, and barges or hoppers should under no circumstances be filled to a level which shall cause the overflowing of materials or polluted water during loading or transportation**	N/A
	<i>Storage, Collection and Transport of Waste</i>	
E3	<ul style="list-style-type: none"> <li>Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.</li> <li>Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap.354), Waste Disposal (Chemical Waste) (General) Regulation (Cap.354), the Crown Land Ordinance (Cap 28), Dumping at Sea Ordinance (Cap 466) and Work Branch Technical Circular No. 22/92, Marine Disposal of Dredged Mud.</li> <li>Disposal of waste at Licensed sites;</li> <li>Develop procedures such as a ticketing system to facilitate tracking of marine mud and chemical waste, and to ensure that illegal disposal does not occur;</li> <li>Segregate and sort the waste materials into 3 categories: <ul style="list-style-type: none"> <li>public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area;</li> <li>re-use and/or recycling waste (e.g. steel and other metals);</li> <li>waste which cannot be re-used and/or recycled (e.g. wood, glass and plastic) for landfill disposal.</li> <li>The sorting process shall be carefully monitored to avoid missing of the 3 categories. Different types of wastes shall be stockpiled and stored in different containers or skips to enhance re-use or recycling of materials and their proper disposal.</li> </ul> </li> <li>Maintain records of the quantities of wastes generated and disposed off-site for each category of waste.</li> </ul>	C
		C
		C
		C
		C
E4	Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes	C
	<b>LAND CONTAMINATION</b>	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	<b>MARINE ECOLOGY</b>	

EM&A Log Ref.	Mitigation Measures	Implementation Status
G1	All percussive piling works shall be conducted on reclaimed land to avoid noise impact to marine mammals**	N/A
G2	All construction related vessels shall approach the extension site from the north and via the East Lamma Channel to avoid disturbance to the finless porpoise**	N/A
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms**	N/A
G4	Artificial Reefs of a volume not less than 400 m <sup>3</sup> shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.**	N/A
	<b>FISHERIES</b>	
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A
	<b>RISK ASSESSMENT</b>	
I1	No risk mitigation measures are required during the construction phase.	N/A

Remarks:

- \*\* - No dredging and reclamation work would be involved for L13 construction  
 C - Compliance with mitigation measure  
 NC - Non-compliance with mitigation measure  
 N/A - Not Applicable










































































































Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

Activity ID	Activity Name	Original Duration	Start	Finish	2025				2026				2027				2028				2029				2030				2031				2032			
					J	A	M	S	J	J	A	M	S	J	J	A	M	S	J	J	A	M	S	J	J	A	M	S	J	J	A	M	S			
 B1000a	Plan Achievement of Section B(i)	0		06-Sep-2025*																																
 B1010	(ii) L13 Gas Receiving Station equipment room - Stage 1, external works (refer to Area G7A, G7B, G6 and G8)	305	01-Apr-2025	31-Jan-2026	<div><div></div></div>																															
 B1010a	Plan Achievement of Section B(ii)	0		28-Nov-2025*																																
 SECTION C																																				
 C1000	(i) Southern part of L13 HRSG area and its surrounding including HRSG exhaust gas duct foundation (Area G2B & G3)	333	01-Apr-2025	28-Feb-2026																																
 C1000a	Plan Achievement of Section C(i)	0		05-Feb-2026*																																
 C1010	(ii) Remaining northern part of L13 HRSG area and its surrounding L13 HRSG Equip. Rm. Bldg. Str. (Area G2A)	409	01-Apr-2025	15-May-2026	<div><div></div></div>																															
 C1010a	Plan Achievement of Section C(ii)	0		06-May-2026*																																
 C1020	(iii) G/F of L13 MSB incl. Conden Pit, C.W. Pipe Pit and equip. frnd. bet GL 13-B to 13-C & 13-1 to 13-6 to inst. conden	425	01-Apr-2025	31-May-2026	<div><div></div></div>																															
 C1020a	Plan Achievement of Section C(iii)	0		02-Mar-2026*																																
 C1030	(iv) No.5 C.W. Intake L13 Pump Chamber, Drum Screen Chamber, and Penstock Chamber (Area G16A)	334	01-Apr-2025	28-Feb-2026	<div><div></div></div>																															
 C1030a	Plan Achievement of Section C(iv)	0		04-Feb-2026*																																
 SECTION D																																				
 D1000	(i) C.W Pump Equipment Room No.5 and its surrounding (Area G13)	698	01-Apr-2025	28-Feb-2027																																
 D1000a	Plan Achievement of Section D(i)	0		15-Jun-2026																																
 D1010	(ii) No.5 CW Intake remaining works (Area G16)	700	01-Apr-2025	01-Mar-2027	<div><div></div></div>																															
 D1010a	Plan Achievement of Section D(ii)	0		15-Jun-2026																																
 D1020	(iii) 275kV Switching Station Phase II alterations and additions works (Area G15)	364	01-Oct-2025*	30-Sep-2026	<div><div></div></div>																															
 D1020a	Plan Achievement of Section D(iii)	0		22-Aug-2026*																																
 D1030	(iv) Plinths and pipe support for LMX Light Tank Farm (Area G14)	395	01-Oct-2025*	31-Oct-2026	<div><div></div></div>																															
 D1030a	Plan Achievement of Section D(iv)	0		05-May-2026																																
 D1040	(v) LMX Dangerous Goods Store alterations and additions works (Area G26)	121	01-Apr-2025	31-Jul-2025	<div><div></div></div>																															
 D1090a	Plan Achievement of Section D(v)	0		31-Jul-2025*																																
 SECTION E																																				
 E1000	(i) Whole of L13 MSB incl pipe & cable rack at south façade w/ all UG utilities (Area G1,G1A,G4 &G5) incl In/Out culvert	486	01-Apr-2025	31-Jul-2026																																
 E1000a	Plan Achievement of Section E(i)	0		20-Jul-2026*																																
 E1010	(ii) Link bridge between L12 and L13 MSB including their associated alterations & additions Works at L12 MSB	486	01-Apr-2025	31-Jul-2026	<div><div></div></div>																															
 E1010a	Plan Achievement of Section E(ii)	0		28-Jul-2026																																
 E1020	(iii) L13 Turbo Block found. incl. L13 MSB GF together with the equip. found. bet GL 13-D to 13-H & GL13-1 to 13.6	487	01-Apr-2025	31-Jul-2026	<div><div></div></div>																															
 E1020a	Plan Achievement of Section E(iii)	0		24-Dec-2025																																
 E1030	(iv) Cable ducts between L12 & L13 Main Station Building for temporary power supply	486	01-Apr-2025	31-Jul-2026	<div><div></div></div>																															
 E1030a	Plan Achievement of Section E(iv)	0		22-Sep-2025																																
 E1040	(v) L13 HRSG Equipment Room Building Services and others associated work	486	01-Apr-2025	31-Jul-2026	<div><div></div></div>																															
 E1040a	Plan Achievement of Section E(v)	0		18-Mar-2026																																
 SECTION F																																				
 SECTION F1																																				
 F1_1000	ACB modification works at Area G19 (Except works in drawing no. 554/03/033/2000)	184	01-Apr-2025	01-Oct-2025	<div><div></div></div>																															
 F1_1000a	Plan Achievement of Section F1	0		30-Sep-2025*																																
 SECTION F2																																				
 F2_1000	i)ACB modification works at Area G19 as shown in drawing no.554/03/024/2040 & 554/03/033/2000 (L9 Contr Equip. Rm 2/F)	517	01-Apr-2025	30-Aug-2026	<div><div></div></div>																															
 F2_1000a	Plan Achievement of Section F2(i)	0		27-Aug-2026*																																
 F2_1010	ii)ACB modification works at Area G19 as shown in dwg no.554/03/024/2040 & /033/2000 (L10 & L11 Contr Equip. Rm 2/F)	820	01-Apr-2025	30-Jun-2027	<div><div></div></div>																															
 F2_1010a	Plan Achievement of Section F2(ii)	0		28-Jun-2027*																																
 F2_1020	iii)ACB modification works at Area G19 as shown in drawing no.554/03/024/2040 & /033/2000 (L13 Contr Equip. Rm 2/F)	485	01-Apr-2025	30-Jul-2026	<div><div></div></div>																															
 F2_1020a	Plan Achievement of Section F2(iii)	0		16-Jul-2026*																																
 SECTION F3																																				
 F3_1000	i) No.5 Chimney modification works at Area G20 (completion of L13 steel flue)	821	01-Apr-2025	01-Jul-2027	<div><div></div></div>																															
 F3_1000a	Plan Achievement of Section F3(i)	0		28-Jun-2027																																
 F3_1010	(ii) completion of exhaust gas duct foundation at G3A	608	01-Apr-2025	30-Nov-2026	<div><div></div></div>																															
 F3_1010a	Plan Achievement of Section F3(ii)	0		19-Mar-2026																																
 SECTION G																																				
 G1000	Station Toilet foundation and building works and removal of Urea Plant Shelter at Area G18 & G22	639	01-Apr-2025	31-Dec-2026	<div><div></div></div>																															
 G1000a	Plan Achievement of Section G	0		09-Dec-2026*																																
 SECTION H																																				
 H1000	(i) External works at Area G12	180	01-Jan-2027*	30-Jun-2027																																
 H1000a	Plan Achievement of Section H(i)	0		30-Jun-2027*																																
 H1010	(ii) External works at Area G10 and B1A	272	01-Oct-2026*	30-Jun-2027	<div><div></div></div>																															
 H1010a	Plan Achievement of Section H(ii)	0		30-Jun-2027*																																
 H1020	(iii) L13 Shunt Reactor modification works at Bay 7 (refer Area G17A)	272	01-Jan-2027*	30-Sep-2027	<div><div></div></div>																															
 H1020a	Plan Achievement of Section H(iii)	0		23-Sep-2027*																																
 H1030	(iv) L13 Shunt Reactor modification works at Bay 8 (refer to Area G17B)	423	01-Jan-2027*	28-Feb-2028	<div><div></div></div>																															
 H1030a	Plan Achievement of Section H(iv)	0		19-Feb-2028*																																
 SECTION I																																				
 I1000	(i) Trenches and pits at surrounding L13 Gas Receiving Station equipment room and cable trenches (Area G6, G7A and G8)	106	01-Jun-2027*	15-Sep-2027																																
 I1000a	Plan Achievement of Section I(i)	0		20-Aug-2027*																																
 I1010	(ii) Whole of L13 Gas Receiving Station equipment room - Stage 2, L13 GRS external foundation,	244	01-Jun-2027*	31-Jan-2028	<div><div></div></div>																															
 I1010a	Plan Achievement of Section I(ii)	0		09-Nov-2027*																																
 I1020	(ii) steel pipe racks and foundations, external works including underground utilities etc (Area G6, G7A, G7B and G8)	244	01-Jun-2027*	31-Jan-2028	<div><div></div></div>																															

◆ Plan Achievement of Section B(i),  (ii) L13 Gas Receiving Station equipment room - Stage 1, external works (refer to Area G7A, G7B, G6 and G8) ◆ Plan Achievement of Section B(ii),				
 (i) Southern part of L13 HRSG area and its surrounding including HRSG exhaust gas duct foundation (Area G2B & G3) ◆ Plan Achievement of Section C(i),  (ii) Remaining northern part of L13 HRSG area and its surrounding L13 HRSG Equip. Rm. Bldg. Str. (Area G2A) ◆ Plan Achievement of Section C(ii),  (iii) G/F of L13 MSB incl. Conden Pit, C.W. Pipe Pit and equip. frnd. bet GL 13-B to 13-C & 13-1 to 13-6 to inst. conden ◆ Plan Achievement of Section C(iii),  (iv) No.5 C.W. Intake L13 Pump Chamber, Drum Screen Chamber, and Penstock Chamber (Area G16A) ◆ Plan Achievement of Section C(iv),				
 (i) C.W Pump Equipment Room No.5 and its surrounding (Area G13) ◆ Plan Achievement of Section D(i),  (ii) No.5 CW Intake remaining works (Area G16) ◆ Plan Achievement of Section D(ii),  (iii) 275kV Switching Station Phase II alterations and additions works (Area G15) ◆ Plan Achievement of Section D(iii),  (iv) Plinths and pipe support for LMX Light Tank Farm (Area G14) ◆ Plan Achievement of Section D(iv),  (v) LMX Dangerous Goods Store alterations and additions works (Area G26) ◆ Plan Achievement of Section D(v),				
 (i) Whole of L13 MSB incl pipe & cable rack at south façade w/ all UG utilities (Area G1,G1A,G4 &G5) incl In/Out culvert ◆ Plan Achievement of Section E(i),  (ii) Link bridge between L12 and L13 MSB including their associated alterations & additions Works at L12 MSB ◆ Plan Achievement of Section E(ii),  (iii) L13 Turbo Block found. incl. L13 MSB GF together with the equip. found. bet GL 13-D to 13-H & GL13-1 to 13.6 ◆ Plan Achievement of Section E(iii),  (iv) Cable ducts between L12 & L13 Main Station Building for temporary power supply ◆ Plan Achievement of Section E(iv),  (v) L13 HRSG Equipment Room Building Services and others associated work ◆ Plan Achievement of Section E(v),				
 ACB modification works at Area G19 (Except works in drawing no. 554/03/033/2000) ◆ Plan Achievement of Section F1,				
 i)ACB modification works at Area G19 as shown in drawing no.554/03/024/2040 & 554/03/033/2000 (L9 Contr Equip. Rm 2/F) ◆ Plan Achievement of Section F2(i),  ii)ACB modification works at Area G19 as shown in dwg no.554/03/024/2040 & /033/2000 (L10 & L11 Contr Equip. Rm 2/F) ◆ Plan Achievement of Section F2(ii),  iii)ACB modification works at Area G19 as shown in drawing no.554/03/024/2040 & /033/2000 (L13 Contr Equip. Rm 2/F) ◆ Plan Achievement of Section F2(iii),				
 i) No.5 Chimney modification works at Area G20 (completion of L13 steel flue) ◆ Plan Achievement of Section F3(i),  (ii) completion of exhaust gas duct foundation at G3A ◆ Plan Achievement of Section F3(ii),				
 Station Toilet foundation and building works and removal of Urea Plant Shelter at Area G18 & G22 ◆ Plan Achievement of Section G,				
 (i) External works at Area G12 ◆ Plan Achievement of Section H(i),  (ii) External works at Area G10 and B1A ◆ Plan Achievement of Section H(ii),  (iii) L13 Shunt Reactor modification works at Bay 7 (refer Area G17A) ◆ Plan Achievement of Section H(iii),  (iv) L13 Shunt Reactor modification works at Bay 8 (refer to Area G17B) ◆ Plan Achievement of Section H(iv),				
 (i) Trenches and pits at surrounding L13 Gas Receiving Station equipment room and cable trenches (Area G6, G7A and G8) ◆ Plan Achievement of Section I(i),  (ii) Whole of L13 Gas Receiving Station equipment room - Stage 2, L13 GRS external foundation, ◆ Plan Achievement of Section I(ii),  (ii) steel pipe racks and foundations, external works including underground utilities etc (Area G6, G7A, G7B and G8)				

 Achievement of Deferred Works       Critical Activities  
 Remaining Work        Milestone

### Tenderer's Technical Resources (CT clause 3(b) C) iv))

Date	Revision	Checked	Approved



Contract No. 24-83005 Lamma Power Station Extention Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

Activity ID		Activity Name	Original Duration	Start	Finish
<div><div>I1020a</div><div>PlanAchievement of Section I(ii)</div><div>0</div><div>09-Nov-2027*</div></div>					
<div><div>SECTION J</div></div>					
<div><div>J1000</div><div>(i) Civil works for APX cable diversion at LMX (refer to Area G11</div><div>304</div><div>01-Jul-2027*</div><div>30-Apr-2028</div></div>					
<div><div>J1000a</div><div>PlanAchievement of Section J(i)</div><div>0</div><div>29-Apr-2028*</div></div>					
<div><div>J1010</div><div>(ii) APX cable diversion works at LPS (Whole of the Works except corresponding trench deferred work listed in PS1.4.4</div><div>546</div><div>01-Jan-2027*</div><div>30-Jun-2028</div></div>					
<div><div>J1010a</div><div>PlanAchievement of Section J(ii)</div><div>0</div><div>29-Jun-2028*</div></div>					
<div><div>SECTION K</div></div>					
<div><div>K1000</div><div>inspection manhole construction for L11 C.W. Inlet pipes inside L11 MSB atArea G21</div><div>122</div><div>01-Sep-2025*</div><div>01-Jan-2026</div></div>					
<div><div>K1000a</div><div>PlanAchievement of Section K</div><div>0</div><div>10-Dec-2025*</div></div>					
<div><div>SECTION L</div></div>					
<div><div>L1000</div><div>Refurbishment work on existing workshop areas between Generation Maintenance Building and Training &amp; Workshop Building</div><div>274</div><div>01-Apr-2025</div><div>31-Dec-2025</div></div>					
<div><div>L1000a</div><div>PlanAchievement of Section L</div><div>0</div><div>29-Dec-2025*</div></div>					
<div><div>SECTION M</div></div>					
<div><div>M1000</div><div>Delivery of L13 HRSG lift shaft precast concrete panels to LMX as shown in 554/0/3/031/0173 to /0173</div><div>0</div><div></div><div>01-Aug-2027*</div></div>					
<div><div>M1000a</div><div>PlanAchievement of Section M</div><div>0</div><div></div><div>26-Jul-2027</div></div>					
<div><div>SECTION N</div></div>					
<div><div>N1000</div><div>i) L13 MSB works</div><div>0</div><div></div><div>31-Jan-2028*</div></div>					
<div><div>N1000a</div><div>PlanAchievement of Section N(i)</div><div>0</div><div></div><div>31-Jan-2028*</div></div>					
<div><div>N1010</div><div>(ii) Other works shall be completed for reporting completion to BDand ready for Occupation Permit (OP) inspection</div><div>0</div><div></div><div>30-Apr-2028*</div></div>					
<div><div>N1010a</div><div>PlanAchievement of Section N(ii)</div><div>0</div><div></div><div>31-Jan-2028*</div></div>					
<div><div>SECTION O</div></div>					
<div><div>O1000</div><div>(i) Emergency shower pit at L10 MSB</div><div>91</div><div>01-Sep-2025*</div><div>30-Nov-2025</div></div>					
<div><div>O1000a</div><div>PlanAchievement of Section O(i)</div><div>0</div><div></div><div>15-Nov-2025*</div></div>					
<div><div>O1010</div><div>(ii) Emergency show pit at L11 MSB</div><div>91</div><div>01-Nov-2025*</div><div>31-Jan-2026</div></div>					
<div><div>O1010a</div><div>PlanAchievement of Section O(ii)</div><div>0</div><div></div><div>16-Jan-2026*</div></div>					
<div><div>SECTION P</div></div>					
<div><div>P1000</div><div>all remaining works except deferred works</div><div>0</div><div></div><div>30-Jun-2028*</div></div>					
<div><div>P1000a</div><div>PlanAchievement of Section P</div><div>0</div><div></div><div>29-Jun-2028*</div></div>					
<div><div>SECTION Q</div></div>					
<div><div>SECTION Q1</div></div>					
<div><div>Q1_1000</div><div>(i) Fabrication of L12 Precast Panel with steel sub-frame (Optional Works (1))</div><div>150</div><div>15-Jan-2025*</div><div>14-Jun-2025</div></div>					
<div><div>Q1_1000a</div><div>PlanAchievement of Section Q1(i)</div><div>0</div><div></div><div>14-Jun-2025*</div></div>					
<div><div>Q1_1010</div><div>(ii) Construction of in-situ Roof Slab (Optional Works (1))</div><div>21</div><div>15-Oct-2025*</div><div>05-Nov-2025</div></div>					
<div><div>Q1_1010a</div><div>PlanAchievement of Section Q1(ii)</div><div>0</div><div></div><div>05-Nov-2025*</div></div>					
<div><div>SECTION Q2</div></div>					
<div><div>Q2_1000</div><div>Improvement Works for Existing L11 C.W. Inlet Pipe inside L11 MSB (Optional Works (2))</div><div>364</div><div>01-Aug-2025*</div><div>31-Jul-2026</div></div>					
<div><div>Q2_1010a</div><div>PlanAchievement of Section Q2</div><div>0</div><div></div><div>30-Jun-2026*</div></div>					
<div><div>COORDINATION WITH EMPLOYER'S E&amp;M SPECIALIST CONTRACTORS</div></div>					
<div><div>SC1000</div><div>Item 2 - Template setting at L13 Turbo Block foundation</div><div>45</div><div>01-May-2026*</div><div>14-Jun-2026</div></div>					
<div><div>SC1010</div><div>Item 3 - Template setting of holding down bolts at HRSG column base</div><div>45</div><div>31-Mar-2026*</div><div>14-May-2026</div></div>					
<div><div>SC1020</div><div>Item 4 - I-Beam / channel base installation on top of transformer foundations at transformer area</div><div>45</div><div>01-Sep-2026*</div><div>15-Oct-2026</div></div>					
<div><div>SC1030</div><div>Item 5 -OH crane at turbine hall access through temp opening at L13 MSB roof bet GL13-G to 13-H &amp; 13-2 to 13-6 (setting)</div><div>29</div><div>01-Apr-2026*</div><div>30-Apr-2026</div></div>					
<div><div>SC1040</div><div>Item 5 - OH crane at turbine hall access through temp opening at L13MSB roof bet GL13-G to 13-H &amp; 13-2 to 13-6 (install)</div><div>6</div><div>01-May-2026*</div><div>07-May-2026</div></div>					
<div><div>SC1050</div><div>Item 6 ; Condenser assembly and erection using access through a temporary façade opening at L13 MSB below 1/F along GL</div><div>153</div><div>01-Jun-2026*</div><div>31-Oct-2026</div></div>					
<div><div>SC1060</div><div>Item 7 - Install power train equip includ air inlet duct access through a temporary façade opening at L13 MSB below 1/F</div><div>122</div><div>01-Aug-2026*</div><div>30-Nov-2026</div></div>					
<div><div>SC1070</div><div>Item 9 - Installation of busduct and IPB assembly works, cable laying and cooling water piping at transformer area</div><div>122</div><div>16-May-2027*</div><div>15-Sep-2027</div></div>					
<div><div>DEFERRED WORKS IN RESPECTIVE SECTIONS (PS1.4.4)</div></div>					
<div><div>L13 MSB and HRSG</div></div>					
<div><div>DW1000</div><div>1) Construct L13 MSB roof bet GL13-G to 13-H and 13-2 to 13-6 after the OH crane installation by the Employer's SC</div><div>37</div><div>08-May-2026*</div><div>14-Jun-2026</div></div>					
<div><div>DW1000a</div><div>Plan implementation of Item 1 - Deferred Works</div><div>36</div><div>09-May-2026</div><div>13-Jun-2026</div></div>					
<div><div>DW1000b</div><div>Plan start of Item 1 - Deferred Works</div><div>0</div><div>09-May-2026*</div><div></div></div>					
<div><div>DW1010</div><div>2) Construction of walls of L13 MSB below 1/F at GL 13-6 from GL13-B to 13-C &amp; ass. precast stair incl. enclosure wall</div><div>89</div><div>01-Dec-2026*</div><div>28-Feb-2027</div></div>					
<div><div>DW1010A</div><div>Plan implementation of Item 2 - Deferred Works</div><div>90</div><div>01-Dec-2026</div><div>28-Feb-2027</div></div>					
<div><div>DW1020</div><div>3) Construction of internal partition wall at 1/F of L13 MSB along GL 13-C from GL 13-2 to 13-3</div><div>31</div><div>22-Dec-2026*</div><div>22-Jan-2027</div></div>					
<div><div>DW1020a</div><div>Plan implementation of Item 3 - Deferred Works</div><div>31</div><div>22-Dec-2026</div><div>22-Jan-2027</div></div>					
<div><div>DW1025</div><div>4) Construction of L13 MSB GF slab in corridor as shown in plan 554/03/022/2047</div><div>29</div><div>01-Sep-2026*</div><div>30-Sep-2026</div></div>					
<div><div>DW1025a</div><div>Plan implementation of Item 4 Deferred Works</div><div>29</div><div>01-Sep-2026</div><div>30-Sep-2026</div></div>					
<div><div>DW1030</div><div>5) (a) Construction of IPB support and sunshade support at transformer area</div><div>44</div><div>01-Apr-2027*</div><div>15-May-2027</div></div>					
<div><div>DW1030a</div><div>Plan implementation of Item 5(a) Deferred Works</div><div>45</div><div>01-Apr-2027</div><div>15-May-2027</div></div>					
<div><div>DW1040</div><div>5)(b) Construction of metal fence and asso F.S. install &amp; install of removable shelter at transformer area</div><div>457</div><div>01-Oct-2027*</div><div>31-Dec-2028</div></div>					
<div><div>DW1040a</div><div>Plan implementation of Item 5(b) Deferred Works</div><div>366</div><div>01-Oct-2027</div><div>30-Sep-2028</div></div>					
<div><div>DW1050</div><div>6) (a) Constr. of conc plinths for Urea to Ammonia Conversion Sys equip &amp; pipe rack, plants in south part of L13 HRSG</div><div>90</div><div></div></div>					



Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

## Project Programme of Works

HEC\_24-83005

Data-Date: 01-Jan-2025

Page 4 of 26

Activity ID		Activity Name		Original Duration	Start	Finish	2025				2026				2027				2028				2029				2030				2031				2032																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							J	A	J	S		J	J	A		J	J	A		J	A	J	S		J	J	A		J	A	J	S		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A		J	J	A	





Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

## Project Programme of Works

Activity ID	Activity Name		Original Duration	Start	Finish	2025					2026				2027				2028				2029				2030				2031				2032			
						J	A	J	J	S	J				J	J	A		J			J	J	A		J			J	J	A		J			J	J	A
STRUCTURAL STEEL																																						
<div>PRO1000</div> Confirm Supplier & Prepare Order			24	01-Apr-2025	03-May-2025																																	
<div>PRO1010</div> Place order			0	06-May-2025																																		
SHOP DRAWINGS																																						
<div>PRO1020</div> Shop Drawings- Preparation			48	06-May-2025	02-Jul-2025																																	
<div>PRO1030</div> Shop Drawings- Submission, Review and RtoC twice			48	03-Jul-2025	27-Aug-2025																																	
<div>PRO1040</div> Shop Drawings- Approvals			24	28-Aug-2025	24-Sep-2025																																	
OFF-SITE FABRICATION																																						
<div>PRO1050</div> Manufacture- Fabrication (1st batch)			48	25-Sep-2025	22-Nov-2025																																	
<div>PRO1060</div> Manufacture- 1st batch inspections			12	24-Nov-2025	06-Dec-2025																																	
<div>PRO1065</div> Manufacture- Production and delivery (1st batch)			36	08-Dec-2025	21-Jan-2026																																	
<div>PRO1070</div> Manufacture- Fabrication (2nd batch)			48	24-Nov-2025	21-Jan-2026																																	
<div>PRO1090</div> Manufacture- 2nd batch inspections			12	22-Jan-2026	04-Feb-2026																																	
<div>PRO1095</div> Manufacture- Production and delivery (2nd batch)			36	05-Feb-2026	21-Mar-2026																																	
<div>PRO1100</div> Manufacture- Fabrication (3rd batch)			48	22-Jan-2026	21-Mar-2026																																	
<div>PRO1120</div> Manufacture- 3rd batch inspections			12	23-Mar-2026	09-Apr-2026																																	
<div>PRO1130</div> Manufacture- Production and delivery (3rd batch)			36	10-Apr-2026	22-May-2026																																	
CABLE RACK AND LADDER (BILL NO. 12)																																						
OFFSITE FABRICATION																																						
<div>PRO2145</div> Confirm Supplier & Prepare Order			24	01-Apr-2025	03-May-2025																																	
<div>PRO2150</div> Manufacture - Place order			0		03-May-2025																																	
<div>PRO2155</div> Manufacture- 1st batch Fabrication			12	06-May-2025	19-May-2025																																	
<div>PRO2160</div> Manufacture - 1st batch Inspections			0		19-May-2025																																	
<div>PRO2160A</div> Manufacture- Production and delivery to site			24	20-May-2025	17-Jun-2025																																	
STEEL FLUE FOR UNIT 13																																						
SHOP DRAWINGS																																						
<div>PRO2170</div> Shop Drawings- Preparation			48	20-Nov-2025	17-Jan-2026																																	
<div>PRO2180</div> Shop Drawings- Submission, Review and RtoC twice			48	18-Dec-2025	14-Feb-2026																																	
<div>PRO2190</div> Shop Drawings- Approvals			24	16-Feb-2026	18-Mar-2026																																	
OFFSITE FABRICATION																																						
<div>PRO2220</div> Steel Flue - Steel works fabrication and assemble			72	19-Mar-2026	17-Jun-2026																																	
<div>PRO2230</div> Manufacture- Inspection			12	21-Apr-2026	05-May-2026																																	
<div>PRO2240</div> Manufacture- Delivery to site			72	06-May-2026	31-Jul-2026																																	
PRECAST UNITS																																						
MSB PRECAST STAIR																																						
SHOP DRAWING																																						
<div>PRO1140</div> Shop Drawings- Preparation			48	01-Apr-2025	03-Jun-2025																																	
<div>PRO1150</div> Shop Drawings- Submission, Review and RtoC twice			48	04-Jun-2025	30-Jul-2025																																	
<div>PRO1160</div> Shop Drawings- Approvals			24	31-Jul-2025	27-Aug-2025																																	
OFF-SITE FABRICATON																																						
<div>PRO1170</div> Manufacture- Fabrication			48	28-Aug-2025	14-Oct-2025																																	
<div>PRO1180</div> Manufacture- Inspections			6	15-Oct-2025	20-Oct-2025																																	
<div>PRO1190</div> Manufacture- Production and delivery			120	21-Oct-2025	17-Feb-2026																																	
L13 HRSG SERVICE LIFT SHAFT PRECAST WALL PANELS ON STEEL FRAME																																						
SHOP DRAWING																																						
<div>PRO2080</div> Shop Drawings- Preparation			72	01-Jun-2026*	25-Aug-2026																																	
<div>PRO2090</div> Shop Drawings- Submission, Review and RtoC twice			60	26-Aug-2026	24-Oct-2026																																	
<div>PRO2100</div> Shop Drawings- Approvals			24	26-Oct-2026	21-Nov-2026																																	
OFF-SITE FABRICATI ON																																						
<div>PRO2110</div> Manufacture- Fabrication			48	22-Nov-2026	08-Jan-2027																																	
<div>PRO2120</div> Manufacture- Inspections			6	09-Jan-2027	14-Jan-2027																																	
<div>PRO2130</div> Manufacture- Production			192	15-Jan-2027	25-Jul-2027																																	
<div>PRO2140</div> Manufacture- Delivery to designated location on site			0		26-Jul-2027																																	
TOWER CRANE																																						
<div>PRO2000</div> Confirm Supplier & Prepare Order			24	01-Apr-2025	03-May-2025																																	
<div>PRO2010</div> Place order			0	06-May-2025																																		
SUPPORTING RACKS (LMX L9, L10, L11 & L13)																																						
SHOP DRAWINGS																																						
<div>PRO2280</div> Shop Drawings- Preparation			24	12-Jul-2025	08-Aug-2025																																	
<div>PRO2290</div> Shop Drawings- Submission, Review and Approval			24	09-Aug-2025	05-Sep-2025																																	
OFF-SITE FABRICATION																																						
<div>PRO2020</div> Supporting Rack LMX L9 - Fabrication and delivery			36	04-Mar-2026	18-Apr-2026																																	
<div>PRO2250</div> Supporting Rack LMX L10 - Fabrication and delivery			36	03-Jun-2026	16-Jul-2026																																	
<div>PRO2260</div> Supporting Rack LMX L11 - Fabrication and delivery			36	17-Jul-2026	27-Aug-2026																																	
<div>PRO2270</div> Supporting Rack LMX L113 - Fabrication and delivery			36	20-Apr-2026	02-Jun-2026																																	
OPTIONAL WORK(1) - PRECAST CONCRETE PANEL AND STEEL SUB-FRAME FOR L12 HRSG LIFT SHAFT																																						
OFF-SITE FABRICATION																																						

 Achievement of Deferred Works
  Critical Activities

 Remaining Work
  Milestone




### Tenderer's Technical Resources (CT clause 3(b) C) iv))

Date	Revision	Checked	Approved



## Project Programme of Works

[illegible]

Achievement of Deferred Works  Remaining Work	Critical Activities   Milestone	Tenderer's Technical Resources (CT clause 3(b) C) iv))	Date	Revision	Checked	Approved











Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

[illegible]




 Achievement of Deferred Works
  Critical Activities

 Remaining Work
  Milestone

### Tenderer's Technical Resources (CT clause 3(b) C) iv))

Date	Revision	Checked	Approved

Activity ID	Activity Name	Original Duration	Start	Finish	2025	2026	2027	2028	2029	2030	2031	2032																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					J	A	J	J	S	J			J	J	A		J			J			J	J	A		J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J			J

Achievement of Deferred Works  Critical Activities  Remaining Work   Milestone	Tenderer's Technical Resources (CT clause 3(b) C) iv))	Date	Revision	Checked	Approved





Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

[illegible]

 Achievement of Deferred Works      Critical Activities  
 Remaining Work      Milestone




















Tenderer's Technical Resources (CT clause 3(b) C) iv))



Date	Revision	Checked	Approved



Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

Activity ID	Activity Name	Original Duration	Start	Finish	2025				2026				2027				2028				2029				2030				2031				2032			
					J	A	J	S	J	J	J	A	J	J	J	A	J	A	J	S	J	J	J	A	J	A	J	S	J	J	J	A	J	J	J	
	 B2_Z5_1530	Pile Cap CD-1 - Rebar fixing	3	07-Jul-2025	09-Jul-2025																															
	 B2_Z5_1540	Pile Cap CD-1 - Formworks installation	2	10-Jul-2025	11-Jul-2025																															
	 B2_Z5_1550	Pile Cap CD-1 - Concreting and dismantle formworks	3	12-Jul-2025	15-Jul-2025																															
	 <b>PILE CAP CD-1a (TOP LEVEL +5.0mPD)</b>																																			
	 B2_Z5_1600	Pile Cap CD-1a - Trim Bored Pile BP9 to cut-off level (formation level at +2.5mPD)	3	02-Jul-2025	04-Jul-2025																															
	 B2_Z5_1610	Pile Cap CD-1a - Install earthing	1	05-Jul-2025	05-Jul-2025																															
	 B2_Z5_1620	Pile Cap CD-1a - Blinding and setting out	1	07-Jul-2025	07-Jul-2025																															
	 B2_Z5_1630	Pile Cap CD-1a - Rebar fixing	3	08-Jul-2025	10-Jul-2025																															
	 B2_Z5_1640	Pile Cap CD-1a - Formworks installation	2	11-Jul-2025	12-Jul-2025																															
	 B2_Z5_1650	Pile Cap CC-1a - Concreting and dismantle formworks	3	14-Jul-2025	16-Jul-2025																															
	 <b>PILE CAP CF-1 (TOP LEVEL +6.0mPD)</b>																																			
	 B2_Z5_7040	Pile Cap CF-1 - Trim Bored Pile BP12&13 to cut-off level (formation level at +3.5mPD)	6	05-Jul-2025	11-Jul-2025																															
	 B2_Z5_7050	Pile Cap CF-1 - Install earthing	1	12-Jul-2025	12-Jul-2025																															
	 B2_Z5_7060	Pile Cap CF-1 - Blinding and setting out	1	14-Jul-2025	14-Jul-2025																															
	 B2_Z5_7070	Pile Cap CF-1 - Rebar fixing	3	15-Jul-2025	17-Jul-2025																															
	 B2_Z5_7080	Pile Cap CF-1 - Formworks installation	2	18-Jul-2025	19-Jul-2025																															
	 B2_Z5_7090	Pile Cap CF-1 - Concreting and dismantle formworks	3	21-Jul-2025	23-Jul-2025																															
	 <b>PILE CAP CF-3 (TOP LEVEL +6.0mPD)</b>																																			
	 B2_Z5_7100	Pile Cap CF-3 - Trim Bored Pile BP14 to cut-off level (formation level at +2.5mPD)	3	24-Sep-2025	26-Sep-2025																															

 Achievement of Deferred Works
  Critical Activities

 Remaining Work
  Milestone

### Tenderer's Technical Resources (CT clause 3(b) C) iv)

Date	Revision	Checked	Approved



Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

Activity ID	Activity Name	Original Duration	Start	Finish	2025	2026	2027	2028	2029	2030	2031	2032
B2_Z5_1870	Turbine & Generator Pile Cap - Concreting and dismantle formworks (Bay G3 - G6)	4	02-Sep-2025	06-Sep-2025								
TURBINE AND GENERATOR FOUNDATION												
RC COLUMNS (1CA, 2CA, 3CA, 1CB, 2CB, 3CB)												
COLUMN 1CA AND 1CB												
B2_Z5_5000	Column - Rebar fixing (1CA & 1CB)	3	28-Aug-2025	01-Sep-2025								
B2_Z5_5010	Column - Formwork and falsework installation (1CA & 1CB)	3	01-Sep-2025	04-Sep-2025								
B2_Z5_5020	Column - Concreting and dismantle formwork/falsework (1CA & 1CB)	3	04-Sep-2025	08-Sep-2025								
COLUMN 2CA AND 2CB												
B2_Z5_5030	Column - Rebar fixing (2CA & 2CB)	4	08-Sep-2025	12-Sep-2025								
B2_Z5_5040	Column - Formwork and falsework installation (2CA & 2CB)	3	12-Sep-2025	16-Sep-2025								
B2_Z5_5050	Column - Concreting and dismantle formwork/falsework (2CA & 2CB)	3	16-Sep-2025	19-Sep-2025								
COLUMN 3CA AND 3CB												
B2_Z5_5060	Column - Rebar fixing (3CA & 3CB)	2	19-Sep-2025	22-Sep-2025								
B2_Z5_5070	Column - Formwork and falsework installation (3CA & 3CB)	2	22-Sep-2025	24-Sep-2025								
B2_Z5_5080	Column - Concreting and dismantle formwork/falsework (3CA & 3CB)	3	24-Sep-2025	27-Sep-2025								
BEAMS (GX1A, GX2A, GX1B, GX2B, GZ1, GZ2) AND BEAM WALL W1												
BEAM (GX1A AND GX2A)												
B2_Z5_6000	Beam - Formwork/faselwork erection (GX1A & GX2A)	3	27-Sep-2025	02-Oct-2025								
B2_Z5_6010	Beam - Rebar fixing (GX1A & GX2A)	3	02-Oct-2025	06-Oct-2025								
B2_Z5_6020	Beam - Concreting (GX1A & GX2A)	1	06-Oct-2025	08-Oct-2025								
B2_Z5_6030	Beam - Curing and removal of formwork (GX1A & GX2A)	7	08-Oct-2025	16-Oct-2025								
BEAM (GX1B AND GX2B)												
B2_Z5_6040	Beam - Formwork/faselwork erection (GX1B & GX2B)	3	27-Sep-2025	02-Oct-2025								
B2_Z5_6050	Beam - Rebar fixing (GX1B & GX2B)	3	02-Oct-2025	06-Oct-2025								
B2_Z5_6060	Beam - Concreting (GX1B & GX2B)	1	06-Oct-2025	08-Oct-2025								
B2_Z5_6070	Beam - Curing and removal of formwork (GX1B & GX2B)	7	08-Oct-2025	16-Oct-2025								
BEAM (GZ1 AND GZ2)												
B2_Z5_6080	Beam - Formwork/faselwork erection (GZ1 & GZ2)	4	08-Oct-2025	13-Oct-2025								
B2_Z5_6090	Beam - Rebar fixing (GZ1 & GZ2)	4	13-Oct-2025	17-Oct-2025								
B2_Z5_6100	Beam - Concreting (GZ1 & GZ2)	1	17-Oct-2025	18-Oct-2025								
B2_Z5_6110	Beam - Curing and removal of formwork (GZ1 & GZ2)	7	18-Oct-2025	27-Oct-2025								
BEAM WALL W1												
B2_Z5_6120	Beam Wall - Rebar fixing (W1)	3	27-Sep-2025	02-Oct-2025								
B2_Z5_6130	Beam Wall - Formwork erection (W1)	2	02-Oct-2025	04-Oct-2025								
B2_Z5_6140	Beam Wall - Concreting (W1)	1	04-Oct-2025	06-Oct-2025								
B2_Z5_6150	Beam - Dismantle formwork (GZ1 & GZ2)	2	06-Oct-2025	09-Oct-2025								
CONCRETE PLINTH (P1 - P6)												
B2_Z5_7000	Concrete Plinth - Rebar fixing (P1 - P6)	4	06-Oct-2025	11-Oct-2025								
B2_Z5_7010	Concrete Plinth - Formwork erection (P1 - P6)	5	11-Oct-2025	17-Oct-2025								
B2_Z5_7020	Concrete Plinth - Concreting (P1 - P6)	3	17-Oct-2025	21-Oct-2025								
B2_Z5_7030	Concrete Plinth - remove formwork (P1 - P6)	2	21-Oct-2025	23-Oct-2025								
TIE BEAMS												
TIE BEAM (GL 13-A TO 13B/GL 13-1 TO 13-2) (TOP LEVEL +4.4mPD)												
B2_Z5_8520	Tie Beam - Binding and setting out (GL13-A to 13-B/GL 13-1 to 13-2)	3	20-Jan-2026	22-Jan-2026								
B2_Z5_8530	Tie Beam - Rebar fixing (GL13-A to 13-B/GL 13-1 to 13-2)	4	23-Jan-2026	27-Jan-2026								
B2_Z5_8540	Tie Beam - Formworks installation (GL13-A to 13-B/GL 13-1 to 13-2)	3	28-Jan-2026	30-Jan-2026								
B2_Z5_8550	Tie Beam - Concreting and dismantle formwork (GL13-A to 13-B/GL 13-1 to 13-2)	4	31-Jan-2026	04-Feb-2026								
TIE BEAM (TOP LEVEL +4.7mPD) (GL 13-B TO 13D/13-2 TO 13-3)												
B2_Z5_2050	Tie Beam - Binding and setting out (TB-V15, TB-V15-2, TB-H11-1&1a, TB-3B2/3B4, TBV14c)	3	22-Jul-2025	24-Jul-2025								
B2_Z5_2060	Tie Beam - Rebar fixing (TB-V15, TB-V15-2, TB-H11-1&1a, TB-3B2/3B4, TB-V14c)	4	25-Jul-2025	29-Jul-2025								
B2_Z5_2070	Tie Beam - Formworks installation (TB-V15, TB-V15-2, TB-H11-1&1a, TB-3B2/3B4, TBV14c)	3	30-Jul-2025	01-Aug-2025								
B2_Z5_2080	Tie Beam - Concreting and dismantle formworks(TB-V15, TB-V15-2, TB-H11-1&1a, TB-3B2/3B4, TBV14c)	4	02-Aug-2025	06-Aug-2025								
TIE BEAM (GL 13-A TO 13B/GL 13-1 TO 13-3) (TOP LEVEL +5.0mPD)												
B2_Z5_8440	Tie Beam - Binding and setting out (GL13-A to 13-B/13-1 to 13-3)	3	31-Dec-2025	03-Jan-2026								
B2_Z5_8450	Tie Beam - Rebar fixing (GL13-A to 13-B/13-1 to 13-3)	5	05-Jan-2026	09-Jan-2026								
B2_Z5_8460	Tie Beam - Formworks installation (GL13-A to 13-B/13-1 to 13-3)	4	10-Jan-2026	14-Jan-2026								
B2_Z5_8470	Tie Beam - Concreting and dismantle formwork (GL13-A to 13-B/13-1 to 13-3)	4	15-Jan-2026	19-Jan-2026								
TIE BEAM (GL 13-A TO 13B/GL 13-3 TO SCa) (TOP LEVEL +5.0mPD)												
B2_Z5_8480	Tie Beam - Binding and setting out (GL13-A to 13-B/13-1 to SCa)	3	20-Jan-2026	22-Jan-2026								
B2_Z5_8490	Tie Beam - Rebar fixing (GL13-A to 13-B/13-1 to SCa)	6	23-Jan-2026	29-Jan-2026								
B2_Z5_8500	Tie Beam - Formworks installation (GL13-A to 13-B/13-1 to SCa)	5	30-Jan-2026	04-Feb-2026								
B2_Z5_8510	Tie Beam - Concreting and dismantle formwork (GL13-A to 13-B/13-1 to SCa)	5	05-Feb-2026	10-Feb-2026								
TIE BEAM (GL13-B TO 13-D/GL13-1 TO 13-3) (TOP LEVEL +5.0mPD)												
B2_Z5_2000	Tie Beam - Binding and setting out (GL13-B to 13-D/13-1 to 13-3)	3	22-Jul-2025	24-Jul-2025								
B2_Z5_2010	Tie Beam - Rebar fixing (GL13-B to 13-D/13-1 to 13-3)	5	25-Jul-2025	30-Jul-2025								
B2_Z5_2030	Tie Beam - Formworks installation (GL13-B to 13-D/13-1 to 13-3)	4	31-Jul-2025	04-Aug-2025								
B2_Z5_2040	Tie Beam - Concreting and dismantle formwork (GL13-B to 13-D/13-1 to 13-3)	4	05-Aug-2025	08-Aug-2025								
TIE BEAM (GL13-D TO 13-F/GL13-1 TO 13-3) (TOP LEVEL +5.0mPD)												

Achievement of Deferred Works

Remaining Work

Critical Activities

Milestone

Tenderer's Techincal Resources (CT clause 3(b) C) iv))

Date

Revision

Checked

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# Project Programme of Works

[illegible]

 Achievement of Deferred Works
  Critical Activities

 Remaining Work
  Milestone

### Tenderer's Technical Resources (CT clause 3(b) C) iv))

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Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

[illegible]





Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

Activity ID	Activity Name		Original Duration	Start	Finish	2025	2026	2027	2028	2029	2030	2031	2032
	<div><div></div><div>B2_2505</div></div> 6/FL +45.5mPD - Installation of Building Services (PS1.3.1) and finishes		72	29-Jul-2026	23-Oct-2026	J	A	J	J	S	J		
	<div><div></div><div>UPPER ROOF +50.7mPD - +50.8mPD</div></div>												
	<div><div></div><div>B2_2500</div></div> Upper Roof +50.8 / 54.525mPD - Instalation of steel beams		12	30-Jun-2026	14-Jul-2026								
	<div><div></div><div>B2_2510</div></div> Upper Roof +50.8 / 54.525mPD - Construct of RC slab with "LYCRODECK"		12	08-Jul-2026	21-Jul-2026								
	<div><div></div><div>B2_2520</div></div> 6/FL +45.5mPD - Construction of parapet		6	22-Jul-2026	28-Jul-2026								
	<div><div></div><div>B2_2525</div></div> 6/FL +45.5mPD - Roof finishing (waterproofing, screeding, toppings, etc.		12	29-Jul-2026	11-Aug-2026								
	<div><div></div><div>B2_2530</div></div> 6/FL +45.5mPD - Installation cat ladders and S.S. poles/trap door		6	12-Aug-2026	18-Aug-2026								
	<div><div></div><div>GAS PIPE AND UTILITY PLATFORM (DEFERRED WORKS)</div></div>												
	<div><div></div><div>B2_2545</div></div> Construction of gas pipe protective barrier and utility platform from +6.85mPD to +30.12		89	01-Dec-2026*	28-Feb-2027								
	<div><div></div><div>TESTING AND COMMISSIONING</div></div>												
	<div><div></div><div>B2_2545a</div></div> Building Services - Testing and Commisioning		180	28-Feb-2027	27-Aug-2027								
	<div><div></div><div>BILL NO. 3 - UNIT 13 HRSG EQUIPMENT ROOM AND ITS ASSOCIATED WORKS</div></div>												
	<div><div></div><div>SUBSTRUCTURE</div></div>												
	<div><div></div><div>HRSG BLOWDOWN SUMP PIT (INVERT LEVEL +1.5mPD)</div></div>												
	<div><div></div><div>B3_1000</div></div> HRSG Blowdown Sump Pit - Excavation, blinding and setting out		2	03-Jul-2025	04-Jul-2025	I							
	<div><div></div><div>B3_1010</div></div> HRSG Blowdown Sump Pit - Construct base slab		3	05-Jul-2025	08-Jul-2025	I							
	<div><div></div><div>B3_1020</div></div> HRSG Blowdown Sump Pit - Construct wall at level +2.0mPD		4	09-Jul-2025	14-Jul-2025	I							
	<div><div></div><div>B3_1030</div></div> HRSG Blowdown Sump Pit - Construct slab at level +2.0mPD		3	14-Jul-2025	17-Jul-2025	I							
	<div><div></div><div>B3_1040</div></div> HRSG Blowdown Sump Pit - Construct wall to soffit of tie beams (TB-V19, TB-H25, TB-H27) with Tyoe II mechanical coupler		4	17-Jul-2025	22-Jul-2025	I							
	<div><div></div><div>B3_1050</div></div> HRSG Blowdown Sump Pit - Backfilling		2	22-Jul-2025	24-Jul-2025	I							
	<div><div></div><div>WASH WATER DRAIN PIT</div></div>												
	<div><div></div><div>B3_1200</div></div> Wash Water Drain Pit - Excavation, blinding and setting out (at +2.65mPD)		2	03-Jul-2025	04-Jul-2025	I							
	<div><div></div><div>B3_1210</div></div> Wash Water Drain Pit - Construct bottom slab and wall kicker		4	05-Jul-2025	10-Jul-2025	I							
	<div><div></div><div>B3_1220</div></div> Wash Water Drain Pit - Construct wall (top level +7.15mPD)		5	10-Jul-2025	16-Jul-2025	I							
	<div><div></div><div>B3_1230</div></div> Wash Water Drain Pit - Construct top slab with opeining (finished level +7.15mPD)		5	16-Jul-2025	22-Jul-2025	I							
	<div><div></div><div>B3_1240</div></div> Wash Water Drain Pit - Backfilling		2	22-Jul-2025	24-Jul-2025	I							
	<div><div></div><div>SERVICE LIFT PIT (AT LEVEL +5.150)</div></div>												
	<div><div></div><div>B3_1300</div></div> Service Lift Pit - Excavation, blinding and setting out		2	22-Jul-2025	24-Jul-2025	I							
	<div><div></div><div>B3_1310</div></div> Service Lift Pit - Cosntruct slab		3	24-Jul-2025	28-Jul-2025	I							
	<div><div></div><div>B3_1320</div></div> Service Lift Pit - Construct wall		4	28-Jul-2025	02-Aug-2025	I							
	<div><div></div><div>B3_1330</div></div> Service Lift Pit - Backfilling		1	02-Aug-2025	04-Aug-2025	I							
	<div><div></div><div>GT OILY DRAIN PIT / CHEMICAL DRAIN PT</div></div>												
	<div><div></div><div>B3_1400</div></div> GT Oily / Chemical drain Pits - Blinding and setting out (formation level +4.025mPD)		1	25-Nov-2025	25-Nov-2025	I							
	<div><div></div><div>B3_1410</div></div> GT Oily / Chemical drain Pits - Construct base slab and wall kicker		3	26-Nov-2025	28-Nov-2025	I							
	<div><div></div><div>B3_1420</div></div> GT Oily / Chemical drain Pits - Construct wall and top slab (finish level +7.15mPD)		5	29-Nov-2025	04-Dec-2025	I							
	<div><div></div><div>B3_1430</div></div> GT Oily / Chemical drain Pits - Backfilling		1	05-Dec-2025	05-Dec-2025	I							
	<div><div></div><div>DRAINAGE WORKS (M/H, PIPES AND U-CHANNELS WITH HEAVY DUTY GRATING)</div></div>												
	<div><div></div><div>B3_1500</div></div> Draiange Works - Manhole construction MH614A - MH625B		12	15-Dec-2025	30-Dec-2025	I							
	<div><div></div><div>B3_1510</div></div> Draiange Works - U-Channel cosntruction		6	05-Jan-2026	10-Jan-2026	I							
	<div><div></div><div>B3_1520</div></div> Draiange Works - Drainage pipe installation		12	12-Jan-2026	24-Jan-2026	I							
	<div><div></div><div>PILE CAP</div></div>												
	<div><div></div><div>PILE CAP CHA-3 (TOP LEVEL +6.0mPD)</div></div>												
	<div><div></div><div>B3_Z5_7340</div></div> Pile Cap CHA-3 - Trim Bored Pile BP21&22 to cut-off level (formation level at +3.4mPD)		6	02-Oct-2025	09-Oct-2025	I							
	<div><div></div><div>B3_Z5_7350</div></div> Pile Cap CHA-3 - Install earthing		1	10-Oct-2025	10-Oct-2025	I							
	<div><div></div><div>B3_Z5_7360</div></div> Pile Cap CHA-3 - Blinding and setting out		1	11-Oct-2025	11-Oct-2025	I							
	<div><div></div><div>B3_Z5_7370</div></div> Pile Cap CHA-3 - Rebar fixing		4	13-Oct-2025	16-Oct-2025	I							
	<div><div></div><div>B3_Z5_7380</div></div> Pile Cap CHA-3 - Formworks installation		3	17-Oct-2025	20-Oct-2025	I							
	<div><div></div><div>B3_Z5_7390</div></div> Pile Cap CHA-3 - Concreting and dismantle formworks		3	21-Oct-2025	23-Oct-2025	I							
	<div><div></div><div>PILE CAP CSP-1 (TOP LEVEL +6.0mPD)</div></div>												
	<div><div></div><div>B3_Z5_7400</div></div> Pile Cap CSP-1 - Trim Bored Pile BP20 to cut-off level (formation level at +3.8mPD)		3	26-Jul-2025	29-Jul-2025	I							
	<div><div></div><div>B3_Z5_7410</div></div> Pile Cap CSP-1 - Install earthing		1	30-Jul-2025	30-Jul-2025	I							
	<div><div></div><div>B3_Z5_7420</div></div> Pile Cap CSP-1 - Blinding and setting out		1	31-Jul-2025	31-Jul-2025	I							
	<div><div></div><div>B3_Z5_7430</div></div> Pile Cap CSP-1 - Rebar fixing		3	02-Aug-2025	05-Aug-2025	I							
	<div><div></div><div>B3_Z5_7440</div></div> Pile Cap CSP-1 - Formworks installation		2	06-Aug-2025	07-Aug-2025	I							
	<div><div></div><div>B3_Z5_7450</div></div> Pile Cap CSP-1 - Concreting and dismantle formworks		3	08-Aug-2025	11-Aug-2025	I							
	<div><div></div><div>PILE CAP CSP-2 (TOP LEVEL +6.0mPD)</div></div>												
	<div><div></div><div>B3_Z5_7460</div></div> Pile Cap CSP-2 - Trim Bored Pile BP23 to cut-off level (formation level at +3.8mPD)		3	26-Jul-2025	29-Jul-2025	I							
	<div><div></div><div>B3_Z5_7470</div></div> Pile Cap CSP-2 - Install earthing		1	30-Jul-2025	30-Jul-2025	I							
	<div><div></div><div>B3_Z5_7480</div></div> Pile Cap CSP-2 - Blinding and setting out		1	31-Jul-2025	31-Jul-2025	I							
	<div><div></div><div>B3_Z5_7490</div></div> Pile Cap CSP-2 - Rebar fixing		3	02-Aug-2025	05-Aug-2025	I							
	<div><div></div><div>B3_Z5_7500</div></div> Pile Cap CSP-2 - Formworks installation		2	06-Aug-2025	07-Aug-2025	I							
	<div><div></div><div>B3_Z5_7510</div></div> Pile Cap CSP-2 - Concreting and dismantle formworks		3	08-Aug-2025	11-Aug-2025	I							
	<div><div></div><div>PILE CAP CHE-3 (TOP LEVEL +6.0mPD)</div></div>												
	<div><div></div><div>B3_Z5_7520</div></div> Pile Cap CHE-3 - Trim Bored Pile BP24 to cut-off level (formation level at +3.4mPD)		3	30-Jul-2025	01-Aug-2025	I							
	<div><div></div><div>B3_Z5_7530</div></div> Pile Cap CHE-3 - Install earthing		1	02-Aug-2025	02-Aug-2025	I							
	<div><div></div><div>B3_Z5_7540</div></div> Pile Cap CHE-3 - Blinding and setting out		1	04-Aug-2025	04-Aug-2025	I							
	<div><div></div><div>B3_Z5_7550</div></div> Pile Cap CHE-3 - Rebar fixing		3	06-Aug-2025	08-Aug-2025	I							
	<div><div></div><div>B3_Z5_7560</div></div> Pile Cap CHE-3 - Formworks installation		2	09-Aug-2025	11-Aug-2025	I							

 Achievement of Deferred Works      Critical Activities  
 Remaining Work       Milestone

Tenderer's Technical Resources (CT clause 3(b) C) iv))

Date	Revision	Checked	Approved







Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works


Activity ID	Activity Name		Original Duration	Start	Finish	2025					2026					2027					2028					2029					2030					2031					2032																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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 Achievement of Deferred Works
  Critical Activities

 Remaining Work
  Milestone

### Tenderer's Technical Resources (CT clause 3(b) C) iv))

Date	Revision	Checked	Approved

		Contract No. 24-83005 Lamma Power Station Extention Civil and Building Works for Unit 13 (Final) R2					HEC_24-83005 Data-Date: 01-Jan-2025 Page 19 of 26																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Project Programme of Works																																				
Activity ID	Activity Name	Original Duration	Start	Finish	2025				2026				2027				2028				2029				2030				2031				2032			
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	<div> B4_5140 Concrete Trench - Concreting to wall and dismantle formworks (GL B)</div>	8	05-Aug-2027	13-Aug-2027																																
	<div> B4_5150 Concrete Trench - Installation of covers (GL B)</div>	6	14-Aug-2027	20-Aug-2027																																
DRAINAGE																																				
	<div> B4_6000 Drainage - M/H (MH625C) and drainage pipe excavation</div>	5	01-Jun-2027	05-Jun-2027																																
	<div> B4_6010 Drainage - M/H Blinding and setting out</div>	2	07-Jun-2027	08-Jun-2027																																
	<div> B4_6020 Drainage - M/H Base slab construction</div>	6	10-Jun-2027	16-Jun-2027																																
	<div> B4_6030 Drainage - M/H Wall construction</div>	6	17-Jun-2027	23-Jun-2027																																
	<div> B4_6040 Drainage - Drainage pipe laying</div>	2	24-Jun-2027	25-Jun-2027																																
	<div> B4_6050 Drainage - M/H backfilling and cover installation</div>	3	26-Jun-2027	29-Jun-2027																																
ON GRADE SLAB AND CHAIN LINK FENCE																																				
	<div> B4_7000 On Grade Slab - Backfilling and site formation</div>	12	28-Aug-2027	10-Sep-2027																																
	<div> B4_7010 On Grade Slab - Construct concrete pavement (North)</div>	12	11-Sep-2027	25-Sep-2027																																
	<div> B4_7020 On Grade Slab - Conatruct concrete pavement (South)</div>	12	27-Sep-2027	12-Oct-2027																																
	<div> B4_7030 Chain Link Fence - Construction of fence including gate</div>	24	13-Oct-2027	09-Nov-2027																																
BILL NO. 5 - UNIT 13 C.W. CULVERT SYSTEM																																				
ZONE 3																																				
CW PIPE LAYING (CONNECTED TO MSB OUTLET BOX)																																				
	<div> B5_1000 Zone 3 C.W. - Install precast concrete pipe support and sand fill bedding</div>	6	18-Sep-2025	25-Sep-2025																																
	<div> B5_1010 Zone 3 C.W. - Installation of DN22000 DI pipe and fix G.I. tie down rope</div>	7	25-Sep-2025	04-Oct-2025																																
	<div> B5_1020 Zone 3 C.W. - Construct trust block Type 'M'</div>	5	04-Oct-2025	11-Oct-2025																																
	<div> B5_1030 Zone 3 C.W. - Backfill (sand) to +6.0mPD</div>	3	11-Oct-2025	15-Oct-2025																																
ZONE 4																																				
CW PIPE LAYING (CONNECTED TO INLET MSB BOX)																																				
	<div> Z4_1000 Stage 0.1 - Sheet Piles Installation (Type C/D)</div>	3	16-Apr-2025	22-Apr-2025																																
	<div> Z4_1010 Stage 1.1a - Excavation down to +5.875.0mPD open cut</div>	3	09-Jun-2025	11-Jun-2025																																
	<div> Z4_1020 Stage 1.1a - Excavation from +5.875mPD to +4.0mPD</div>	5	12-Jun-2025	17-Jun-2025																																
	<div> Z4_1030 Stage 1.2b - Trim Sheet Piles to +4.275mPD</div>	3	18-Jun-2025	20-Jun-2025																																
	<div> Z4_1040 Stage 1.3b - Excavation from 4.0mPD to 3.3mPD</div>	2	21-Jun-2025	23-Jun-2025																																
	<div> Z4_1050 Stage 1.4b - Install Walings and Strut at +3.8mPD</div>	4	24-Jun-2025	27-Jun-2025																																
	<div> Z4_1060 Stage 1.5b &amp; 1.6b - Dewatering and exc. to final level +1.10mPD incl. removal of existing drain</div>	8	28-Jun-2025	08-Jul-2025																																
	<div> Z4_1070 Stage 1.7b - Install C.W. Pipe 2200mm dia DI Pipe with trust block Type K and MH16</div>	24	09-Jul-2025	05-Aug-2025																																
	<div> Z4_1080 Stage 2.1 - Backfill with compacted fill (sand) up to 400mm below struts</div>	3	06-Aug-2025	08-Aug-2025																																
	<div> Z4_1090 Stage 2.2 - Dismantle struts and walings</div>	2	27-Aug-2025	28-Aug-2025																																
	<div> Z4_1100 Stage 2.3 - Backfill (sand) to +4.0mPD between Sheet Pile Type D and existing Pipe Pile</div>	3	29-Aug-2025	01-Sep-2025																																
	<div> Z4_1120 Stage 2.4 - Excavate 1-2 slope between Sheet Pile Type D and existing Pie Pile &amp; +1.425mPD bet Type A &amp; D w/ dewatering</div>	3	02-Sep-2025	04-Sep-2025																																
	<div> Z4_1130 Stage 2.5 - Trim Sheet Pile Type D &amp; A (Zone 2) to +2.70mPD</div>	4	05-Sep-2025	09-Sep-2025																																
	<div> Z4_1140 Backfill (sand) to +6.0mPD</div>	4	10-Sep-2025	15-Sep-2025																																
ZONE 5																																				
CW PIPE LAYING (CONNECTED TO INLET PIPE IN ZONE 5)																																				
	<div> B5_2000 Zone 5 C.W. - Excavation to formation ;level +1.0mPD (open cut along existing pipe pile wall)</div>	6	09-Jul-2025	15-Jul-2025																																
	<div> B5_2010 Zone 5 C.W. - Install precast concrete pipe support and sand fill bedding</div>	3	06-Aug-2025	08-Aug-2025																																
	<div> B5_2020 Zone 5 C.W. - Installation of DN22000 DI pipe fix G.I. tie down rope, MH T-piece &amp; GI steel pipe for settlement marker</div>	10	09-Aug-2025	20-Aug-2025				</																												





Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

## Project Programme of Works

Activity ID	Activity Name	Original Duration	Start	Finish	2025					2026					2027					2028					2029					2030					2031					2032																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					J	A	J	J	S	J			J	J	A		J			J	J	A		J		A	J	J	S	J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J	J	A		J			J

[illegible]

<div> <div></div> Achievement of Deferred Works <div></div> Critical Activities </div>	Tenderer's Technical Resources (CT clause 3(b) C) iv))				Date	Revision	Checked	Approved
<div> <div></div> Remaining Work <div></div> Milestone </div>								






Contract No. 24-83005 Lamma Power Station Extension Civil and Building Works for Unit 13 (Final) R2

# Project Programme of Works

[illegible]

<div></div>		Contract No. 24-83005 Lamma Power Station Extention Civil and Building Works for Unit 13 (Final) R2				HEC_24-83005 Data-Date: 01-Jan-2025 Page 24 of 26										
Project Programme of Works																
Activity ID	Activity Name	Original Duration	Start	Finish												
	<div><div></div> B14_1450</div> Can No. 21B - Move-in and lifting and bolt connection to Can No. 21A and seal weld	8	27-Apr-2027	06-May-2027												
	<div><div></div> B14_1460</div> Can No. 21B - Anti-corrosion painting	3	07-May-2027	10-May-2027												
	<div><div></div> B14_1470</div> Can No. 21C - Move-in and lifting and bolt connection to Can No. 21B and seal weld	8	11-May-2027	20-May-2027												
	<div><div></div> B14_1480</div> Can No. 21C - Anti-corrosion painting	3	21-May-2027	24-May-2027												
	<div><div></div> B14_1490</div> Installation of lateral restraint of steel flue	18	25-May-2027	15-Jun-2027												
	<div><div></div> B14_1505</div> Removal of existing metal cover of Entry Duct	5	25-May-2027	29-May-2027												
	<div><div></div> B14_1510</div> Installation of Entry Duct (Can No. 22A - 22D)	6	31-May-2027	05-Jun-2027												
	<div><div></div> B14_1515</div> Installation of insulation and external protective cladding	24	31-May-2027	28-Jun-2027												
	<div><div></div> B14_1520</div> Installation of maintenance and access paltforms with doors at the bottom of steel flue	12	07-Jun-2027	21-Jun-2027												
<div><div></div> BILL NO. 15 - MODIFICATION WORK TO EXISTING L11 C.W. CULVERT PIPE</div>																
<div><div></div> L11 INSPECTION MANHOLE FOR C.W. INLET PIPE</div>																
	<div><div></div> B15_1000</div> Accestance of site (L11 ST-2) and clearing away any item and fencing the site prior to commencing the works	6	01-Sep-2025	06-Sep-2025												
	<div><div></div> B15_1010</div> Reinstatement of opened slab and temporary seal up the floor opening for the proposed manhole cover for BD inspection	12	08-Sep-2025	20-Sep-2025												
	<div><div></div> B15_1015</div> Arrange BD inspection	24	22-Sep-2025	21-Oct-2025												
	<div><div></div> B15_1020</div> Removal of concrete cover, excavation and contruction of new manhole (blocks and steel) with permanent CI manhole cover	36	22-Oct-2025	03-Dec-2025												
	<div><div></div> B15_1030</div> Clearing site after construction	6	04-Dec-2025	10-Dec-2025												
<div><div></div> BILL NO. 16 - MODIFICATION WORK TO EXISTING NO. 5 C.W. INTAKE AND C.W. PUMP EQUIPMENT ROOM NO. 5</div>																
	<div><div></div> B16_1000</div> General - Site clearing including removal of debris/rubbish left by other, installation of elevation marks	12	01-Apr-2025	15-Apr-2025												
<div><div></div> PUMP EQUIPMENT ROOM</div>																
	<div><div></div> B16_1002</div> Equipment Room - Removal of mass fill concrete panels	10	16-Apr-2025	30-Apr-2025												
<div><div></div> DISCHARGE VALVE CHAMBER (16A)</div>																
	<div><div></div> B16_1005</div> Discharge Valve Chamber - Construction of plinths for L13 pipes/valves	36	02-May-2025	14-Jun-2025												
	<div><div></div> B16_1010</div> Discharge Valve Chamber - Removal of existing block wall	12	16-Jun-2025	28-Jun-2025												
	<div><div></div> B16_1020</div> Discharge Valve Chamber - installation of puddle pipe (by Others)	24	30-Jun-2025	28-Jul-2025												
	<div><div></div> B16_1030</div> Discharge Valve Chamber - Seal up wall opening by concrete	12	29-Jul-2025	11-Aug-2025												
	<div><div></div> B16_1040</div> Discharge Valve Chamber - Installation of GRP ladder and modification of existing GRP railing and security wire mesh	18	12-Aug-2025	01-Sep-2025												
	<div><div></div> B16_1050</div> Discharge Valve Chamber - Laying cement sand screeding	12	02-Sep-2025	15-Sep-2025												
<div><div></div> PUMP CHAMBER (16A)</div>																
	<div><div></div> B16_2000</div> Pump Chamber - Removal of existing precast cover and installation of GMS railing	24	16-Sep-2025	15-Oct-2025												
	<div><div></div> B16_2010</div> Pump Chamber - Removal of cement sand seal up material inside existing pocket holes	10	16-Oct-2025	27-Oct-2025												
	<div><div></div> B16_2020</div> Pump Chamber - Make good of fall surface of existing concrete topping by grinding to achieve fall requirement	10	28-Oct-2025	08-Nov-2025												
<div><div></div> MESH SCREEN CHAMBER (16A)</div>																
	<div><div></div> B16_3000</div> Mesh Screen Chamber - Removal of precast cover and disposal	12	10-Nov-2025	22-Nov-2025												
	<div><div></div> B16_3010</div> Mesh Screen Chamber - Breaking non-struct conc. topping for conduits installation then reinatate trench cover/topping	24	24-Nov-2025	20-Dec-2025												
	<div><div></div> B16_3020</div> Mesh Screen Chamber - Installation of GRP ladder with safety loops, railing with security wire mesh and GRP grating	18	22-Dec-2025	14-Jan-2026												
	<div><div></div> B16_3030</div> Mesh Screen Chamber - Removal of cement sand seal up material inside existing opening and pocket holes	6	15-Jan-2026	21-Jan-2026												
	<div><div></div> B16_3040</div> Mesh Screen Chamber - Unplug existing drain pipe towards existing L13 chamber	6	22-Jan-2026	28-Jan-2026												
	<div><div></div> B16_3050</div> Mesh Screen Chamber - Installation of permanent isolation valve to existing trash basket pit and trash pit	6	29-Jan-2026	04-Feb-2026												
<div><div></div> BAR SCREEN CHAMBER AND PENSTOCK CHAMBER (G16A)</div>																
	<div><div></div> B16_4000</div> Bar Screen & Penstock Chamber - Removal of precast cover	12	16-Apr-2025	03-May-2025												
	<div><div></div> B16_4010</div> Bar Screen & Penstock Chamber - Installation of L13 Bar Screen SS Channel	24	06-May-2025	03-Jun-2025												
	<div><div></div> B16_4020</div> Bar Screen & Penstock Chamber - Break up 200mm non-struct conc. topping and install dowel bars at L13 penstock support	24	04-Jun-2025	02-Jul-2025												
	<div><div></div> B16_4030</div> Bar Screen & Penstock Chamber - Install GRP ladder with safety loops and GMS grating	18	03-Jul-2025	23-Jul-2025												
	<div><div></div> B16_4040</div> Bar Screen & Penstock Chamber - Modify existing plinth for penstock install. & seal up gap bet. stop gate/intake (dw)	32	01-May-2026*	01-Jun-2026												
	<div><div></div> B16_4050</div> Bar Screen & Penstock Chamber - Concrete scrubbling to form recess for grating cover installation	12	02-Jun-2026	15-Jun-2026												
<div><div></div> EXISTING INTAKE CULVERT (G16A)</div>																
	<div><div></div> B16_5000</div> Intake Culvert - Remove and disposal of temporary watergate and steel end plate	18	16-Apr-2025	12-May-2025												
	<div><div></div> B16_5010</div> Intake Culvert - Diving inspection and desilting	24	13-May-2025	10-Jun-2025												
	<div><div></div> B16_5020</div> Intake Culvert - Installation of chlorination pipes	12	11-Jun-2025	24-Jun-2025												
<div><div></div> BILL NO. 17 - MODIFICATION WORK TO EXISTING LMX ADMINISTRATION AND CONTROL BUILDING</div>																
	<div><div></div> B17_1000</div> General - Site clearing including removal of debris/rubbish left by other	12	01-Jun-2026*	13-Jun-2026												
<div><div></div> LMX L9</div>																
	<div><div></div> B17_1010</div> LMX L9 - Form opening to existing raised floor	24	15-Jun-2026	14-Jul-2026												
	<div><div></div> B17_1020</div> LMX L9 - Installation of supporting rack	36	17-Jul-2026	27-Aug-2026												
<div><div></div> LMX L10</div>																
	<div><div></div> B17_1030</div> LMX L10 - Form opening to existing raised floor	24	01-Mar-2027*	31-Mar-2027												
	<div><div></div> B17_1040</div> LMX L10 - Installation of supporting rack	36	01-Apr-2027	15-May-2027												
<div><div></div> LMX L11</div>																
	<div><div></div> B17_1050</div> LMX L11 - Form opening to existing raised floor	24	01-Apr-2027	29-Apr-2027												
	<div><div></div> B17_1060</div> LMX L11 - Installation of supporting rack	36	17-May-2027	28-Jun-2027												
<div><div></div> LMX L13</div>																
	<div><div></div> B17_1070</div> LMX L13 - Installation of supporting rack	36	03-Jun-2026*	16-Jul-2026												
<div><div></div> WORKS NOT SHOWN IN DWG. NO. 554/03/033/2000</div>																
	<div><div></div> B17_1080</div> ACB modification works at Area G19 as shown in drawing no. 554/03/024/2040 (Except works in drawing no. 554/03/033/2000)	149	01-Apr-2025*	30-Sep-2025												
<div><div></div> BILL NO. 18 - REFURB. WRKS. ON EXISTING WORKSHOP AREAS BET. GEN. MAINT. BLDG &amp; TRAIN. WORKSHOP BLDG.</div>																
<div><div></div> WATER TANK REMEDIAL WORKS</div>																
	<div><div></div> B18_1000</div> Water Tank - Hack off existing internal finishes including existing waterproofing layer to sound concrete substrate	12	15-Apr-2025	02-May-2025												
	<div><div></div> B18_1010</div> Water Tank - Sealing of visible cracks with repair mortar	8	03-May-2025	13-May-2025												



# Project Programme of Works

Activity ID		Activity Name		Original Duration	Start	Finish	2025				2026				2027				2028				2029				2030				2031				2032								
							J	A	J	J	S		J	J	J	A		J	J	J	A		J	A	J	J	S		J	J	J	A		J	A	J	J	S		J	J	J	
<div><div></div><div></div><div></div><div></div></div>	B18_1020	Water Tank - Apply Optimix BP126 Plaster" to floor, walls and ceiling soffit		6	14-May-2025	20-May-2025																																					
	B18_1030	Water Tank - Apply waterproofing		10	21-May-2025	02-Jun-2025																																					
	B18_1040	Water Tank - Carry out water test		5	03-Jun-2025	07-Jun-2025																																					
	B18_1050	Water Tank - Install tiles to floor, walls and ceiling soffit		12	09-Jun-2025	21-Jun-2025																																					
	<div><div></div>REPLACEMENT OF EXISTING METAL ROOF SYSTEM</div>																																										
	B18_2000	Metal Roof - Erection corrugated metal hoarding		12	11-Jul-2025	24-Jul-2025																																					
	B18_2010	Metal Roof - Removal of existing roofing system		24	25-Jul-2025	21-Aug-2025																																					
	B18_2020	Metal Roof - Temporary removal of affected electrical installation, FS installation and mech ventilation installations		24	22-Aug-2025	18-Sep-2025																																					
	B18_2030	Metal Roof - Installation of new roofing system including skylight, capping, gutters and and rain water outlet,		48	19-Sep-2025	17-Nov-2025																																					
	B18_2040	Metal Roof - Installation of fall arrest system and 150dia epoxy coated CI pilpes		12	18-Nov-2025	01-Dec-2025																																					
B18_2050	Metal Roof - Install repalcement of damaged fire rated ceiling		12	02-Dec-2025	15-Dec-2025																																						
B18_2060	Metal Roof - Repaint the entire fire ated ceiling with polyurethane coating		10	16-Dec-2025	29-Dec-2025																																						
<div><div></div>BILL NO. 18A - A&amp;A WORKS AT DG STORE</div>																																											
B18A_1010	DG Store - Notification to commence A&A works		12	15-Apr-2025	02-May-2025																																						
B18A_1020	DG Store - Construct new 560(H) R.C curb at the entrance and lower areas of DG Store "A" incl. painting to wall/floor		6	03-May-2025	10-May-2025																																						
B18A_1030	DG Store - Construct temp. fire rated enclosure for new partition wall opening at DG Store "A"		12	12-May-2025	24-May-2025																																						
B18A_1040	DG Store - Re-locate all ammonium hydroxide at existing DG Store "D" to DG Stare "A" (with prior approval from FSD)		5	26-May-2025	30-May-2025																																						
B18A_1050	DG Store - Construct R.C. ramp, staircase, railings and curbs at DG Store "D"		24	02-Jun-2025	28-Jun-2025																																						
B18A_1060	DG Store - Painting works to wall and floors (RUSTOLEUM 9100)		10	30-Jun-2025	11-Jul-2025																																						
B18A_1065	DG Store - Statutory Inspection		12	12-Jul-2025	25-Jul-2025																																						
B18A_1070	DG Store - Restore all Ammonium Hydroxide to DG Store "D" from DG Store "A"		5	26-Jul-2025	31-Jul-2025																																						
<div><div></div>BILL NO. 18B - EMERGENCY SHOWER AT L10 &amp; L11 MSB</div>																																											
<div><div></div>L10 EMERGENCY SHOWER</div>																																											
B18B_1000	L10 Shower - Fence off working area		3	01-Sep-2025	03-Sep-2025																																						
B18B_1010	L10 Shower - Break existing on-grade slab and excavation		12	04-Sep-2025	17-Sep-2025																																						
B18B_1020	L10 Shower - Construct RC emergency shower pit including 300mmx300mm D trench		24	18-Sep-2025	17-Oct-2025																																						
B18B_1030	L10 Shower - Backfill and reintate on-grade slab		12	18-Oct-2025	01-Nov-2025																																						
B18B_1040	L10 Shower - Installation of unheated emergency safety shower set incl. plumbings		12	03-Nov-2025	15-Nov-2025																																						
<div><div></div>L11 EMERGENCY SHOWER</div>																																											
B18B_1050	L11 Shower - Fence off working area		3	01-Nov-2025	04-Nov-2025																																						
B18B_1060	L11 Shower - Break existing on-grade slab and excavation		12	05-Nov-2025	18-Nov-2025																																						
B18B_1070	L11 Shower - Construct RC emergency shower pit including 300mmx300mm D trench		24	19-Nov-2025	16-Dec-2025																																						
B18B_1080	L11 Shower - Backfill and reintate on-grade slab		12	17-Dec-2025	02-Jan-2026																																						
B18B_1090	L11 Shower - Installation of unheated emergency safety shower set incl. plumbings		12	03-Jan-2026	16-Jan-2026																																						
<div><div></div>BILL NO. 18C - CIVIL WORKS FOR MICRO GAS TURBINE</div>																																											
<div><div></div>FOUNDATION (RF1)</div>																																											
B18C_1000	Raft Footing (RF1) - Install monitoring checkpoint and take reading		6	22-Dec-2025	30-Dec-2025																																						
B18C_1010	Raft Footing (RF1) - Carry out open cut excavation including breaking of existing slab and plate load test		10	31-Dec-2025	12-Jan-2026																																						
B18C_1011	Raft Footing (RF1) - Blinding and setting out		2	13-Jan-2026	14-Jan-2026																																						
B18C_1012	Raft Footing (RF1) - Rebar fixing and formwork erection		12	15-Jan-2026	28-Jan-2026																																						
B18C_1012a	Raft Footing (RF1) - Embedded materials delivered to site (by Others)		0		06-Mar-2026*																																						
B18C_1013	Raft Footing (RF1) - Installation of embedded materials by Employer's Specialist Contractor		12	06-Mar-2026	19-Mar-2026																																						
B18C_1015	Raft Footing (RF1) - Concreting and dismantle formworks		3	20-Mar-2026	23-Mar-2026																																						
B18C_1020	Raft Footing (RF1) - Construction of catch pit CP-01		10	24-Mar-2026	08-Apr-2026																																						
B18C_1030	Raft Footing (RF1) - Backfilling to final level		3	09-Apr-2026	11-Apr-2026																																						
B18C_1040	Raft Footing (RF1) - Reinstate adjacent ground finishes/on-grade slab		6	13-Apr-2026	18-Apr-2026																																						
B18C_1050	Raft Footing (RF1) - Installation of staircase, u-channel/catch pit grating, railings and emergency crash barrier		12	16-Apr-2026	29-Apr-2026																																						
<div><div></div>NEW TRENCH CONSTRUCTION</div>																																											
B18C_2000	New Trench - Open cut excavation, blinding and setting out		6	31-Dec-2025	07-Jan-2026																																						
B18C_2010	New Trench - Base slab construction		12	08-Jan-2026	21-Jan-2026																																						
B18C_2020	New Trench - Wall construction		12	22-Jan-2026	04-Feb-2026																																						
B18C_2030	New Trench - Breaking opening to existing cable trench		3	05-Feb-2026	07-Feb-2026																																						
B18C_2040	New Trench - Cable laying by Others		6	09-Feb-2026	14-Feb-2026																																						
B18C_2050	New Trench - Installation of cable trench covers		6	16-Feb-2026	25-Feb-2026																																						
<div><div></div>TRENCH EXCAVATION AND BACKFILLING</div>																																											
B18C_3000	Trench Excavation/Backfill - Excavation Permit application and installation of temporary barriers		24	20-May-2025	17-Jun-2025																																						
B18C_3010	Trench Excavation/Backfill - Removal of ground finishes, trench cover, excavation		72	18-Jun-2025	10-Sep-2025																																						
B18C_3020	Trench Excavation/Backfill - Cable laying by Other		72	11-Sep-2025	06-Dec-2025																																						
B18C_3030	Trench Excavation/Backfill - Reintatement works		72	08-Dec-2025	07-Mar-2026																																						
<div><div></div>OPTIONAL WORKS (1) - L12 HRSG LIFT SHAFT SLAB</div>																																											
OPW1_1000	Optional Works (1) - Construction of in-situ roof slab of L12 HRSG lift shaft		17	15-Oct-2025*	05-Nov-2025																																						
<div><div></div>OPTIONAL WORKS (2) - IMPROVEMENT WORKS L11 MSB C.W. INLET PIPE</div>																																											
OPW2_1000	Optional Works (2) - Start of the works		0	01-Aug-2025*																																							
OPW2_1005	Optional Works (2) - Installation and reading of monitoring station		6	01-Aug-2025	07-Aug-2025																																						
OPW2_1010	Optional Works (2) - Fencing of and removal existing ground finishes		12	08-Aug-2025	21-Aug-2025																																						
OPW2_1020	Optional Works (2) - Excavation to expose 1/3 of C.W. pipe (existing ground level to +3.0mPD)		36	22-Aug-2025	03-Oct-2025																																						
OPW2_1030	Optional Works (2) - Diversion of utilities affected by the works		24	30-Sep-2025	30-Oct-2025																																						
OPW2_1040	Optional Works (2) - Start of L11 C.W. system outage		0	01-Nov-2025*																																							

Achievement of Deferred Works

Critical Activities

Remaining Work

Milestone

Tenderer's Techincal Resources (CT clause 3(b) C) iv))

Date

Revision

Checked

Approved





Contract No. 24-83005 Lamma Power Station Extention Civil and Building Works for Unit 13 (Final) R2

**Project Programme of Works**

HEC\_24-83005  
Data-Date: 01-Jan-2025  
Page 26 of 26

Activity ID	Activity Name	Original Duration	Start	Finish	2025												2026				2027				2028				2029				2030				2031				2032								
					J	A	J	J	S								J	J	A					J	A	J	J	S					J	J	A					J	J	A							
<div></div>	<div></div> OPW2_1050	Optional Works (2) - Continue exc. to expose the remaining portion of C.W pipe down to +1.05mPD and dewatering of pipe	36	01-Nov-2025	12-Dec-2025																																												
	<div></div> OPW2_1060	Optional Works (2) - Cutting and replacement of defective K-joint with new pipe and collar fittings supplied by Employer	60	13-Dec-2025	27-Feb-2026																																												
	<div></div> OPW2_1070	Optional Works (2) - Backfilling from +1.05mPD tp +3.0mPD (bottom 2/3 of new C.W. pipe)	24	28-Feb-2026	27-Mar-2026																																												
	<div></div> OPW2_1080	Optional Works (2) - Resume operation of L11 C.W. culvert system	0		31-Mar-2026*																																												
	<div></div> OPW2_1090	Optional Works (2) - Reinstate underground utilities, G/F slab and road works	72	31-Mar-2026	30-Jun-2026																																												

Tenderer's Techincal Resources (CT clause 3(b) C) iv))

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## Appendix K

Objective: Encourage best practices in the management of waste, including sorting, recycling, and disposal of demolition/ construction waste.

**Monthly Waste Flow Table**

Month	Total Quantity Generated	Total Quantity Generated (Excluded Excavated Material)	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Materials Generated Monthly						Remarks
			Excavated Materials			Non-excavated Materials					Metals (steel bar / metal strip) <sup>(1)</sup>	Metals (aluminum can) <sup>(1)</sup>	Paper / cardboard packaging / Wooden product <sup>(1)</sup>	Plastics <sup>(1) &amp; (4)</sup>	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse	
			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							
	(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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
	a1	a2	b	b	b	c	d	e	f	g	h	i	j	k	l	m	
Jun-25	79.76	79.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.59	0.00	0.00	0.00	0.00	64.17	
Jul-25	1928.20	3.49	0.00	0.00	1924.71	0.00	0.00	0.00	0.00	0.00	3.49	0.00	0.00	0.00	0.00	0.00	
Total	2007.96	83.25	0.00	0.00	1924.71	0.00	0.00	0.00	0.00	0.00	19.08	0.00	0.00	0.00	0.00	64.17	

Total C&D waste generated	2007.96 tonnes	a1=b+c+d+e+f+g+h+i+j+k+l+m
Total C&D waste generated (excluded excavated materials)	83.25 tonne	a2=c+d+e+f+g+h+i+j+k+l+m
Total recycled C&D waste	19.08 tonne	a3=c+d+e+h+i+j+k
% of recycled C&D waste	22.92 %	a4=a3/a2 x 100%

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) Excavated materials/waste will NOT be considered as part of construction waste. It should be excluded in the calculation.
- (7) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.