

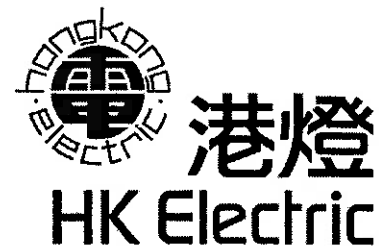
香港電燈有限公司
The Hongkong Electric Co., Ltd.



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

August 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 (August 2025)
Date	12 September 2025
Certified by	 (Mr. CHAN Hon Yeung, Environmental Team Leader)
Verified by	 Mr. Y. W. Fung (AECOM Asia Company Limited, Independent Environmental Checker)

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EXECUTIVE SUMMARY

This is the 184th 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 August 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

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 August 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	Wastewater – 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. – All wastewater will be treated before discharge to fulfill the requirement of wastewater discharge licence. Noise – General noise mitigation measure employed at all work sites throughout the construction phase. – Following all requirement of Construction Noise Permit issued by EPD. – Generators operate with door closed. Waste Management – Waste Management Plan submitted and implemented. – Construction will be store in the proposed storage area for recycled or disposal. Air – Dust suppression in the main haul road. – Using ULSD for PMEs. – Cover dusty stockpile with tarpaulin and water spraying. – Wheel-washing was installed in site – Well maintain and check the PMEs

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.

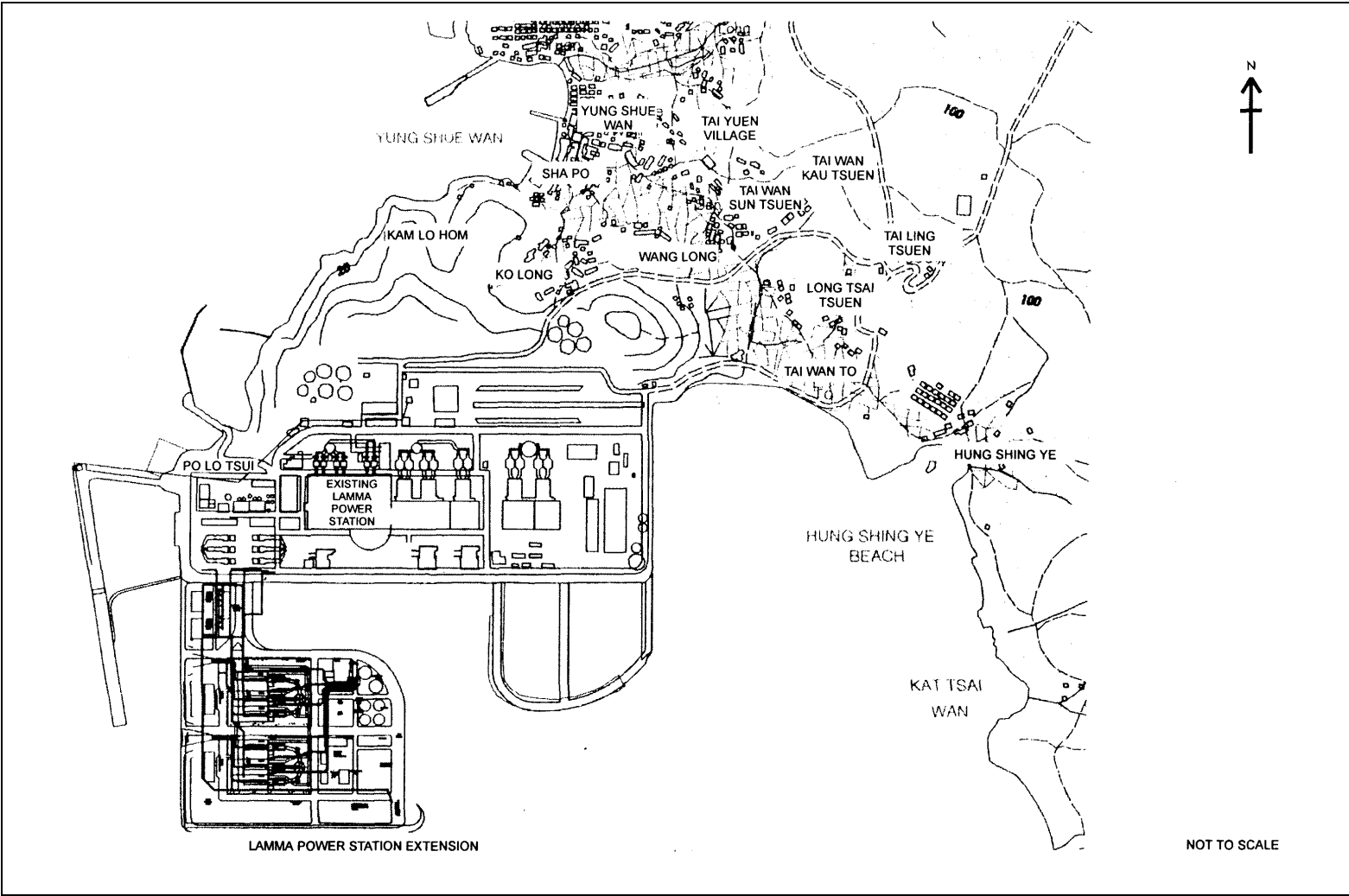


Figure 1.1 Layout of Work Site

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.

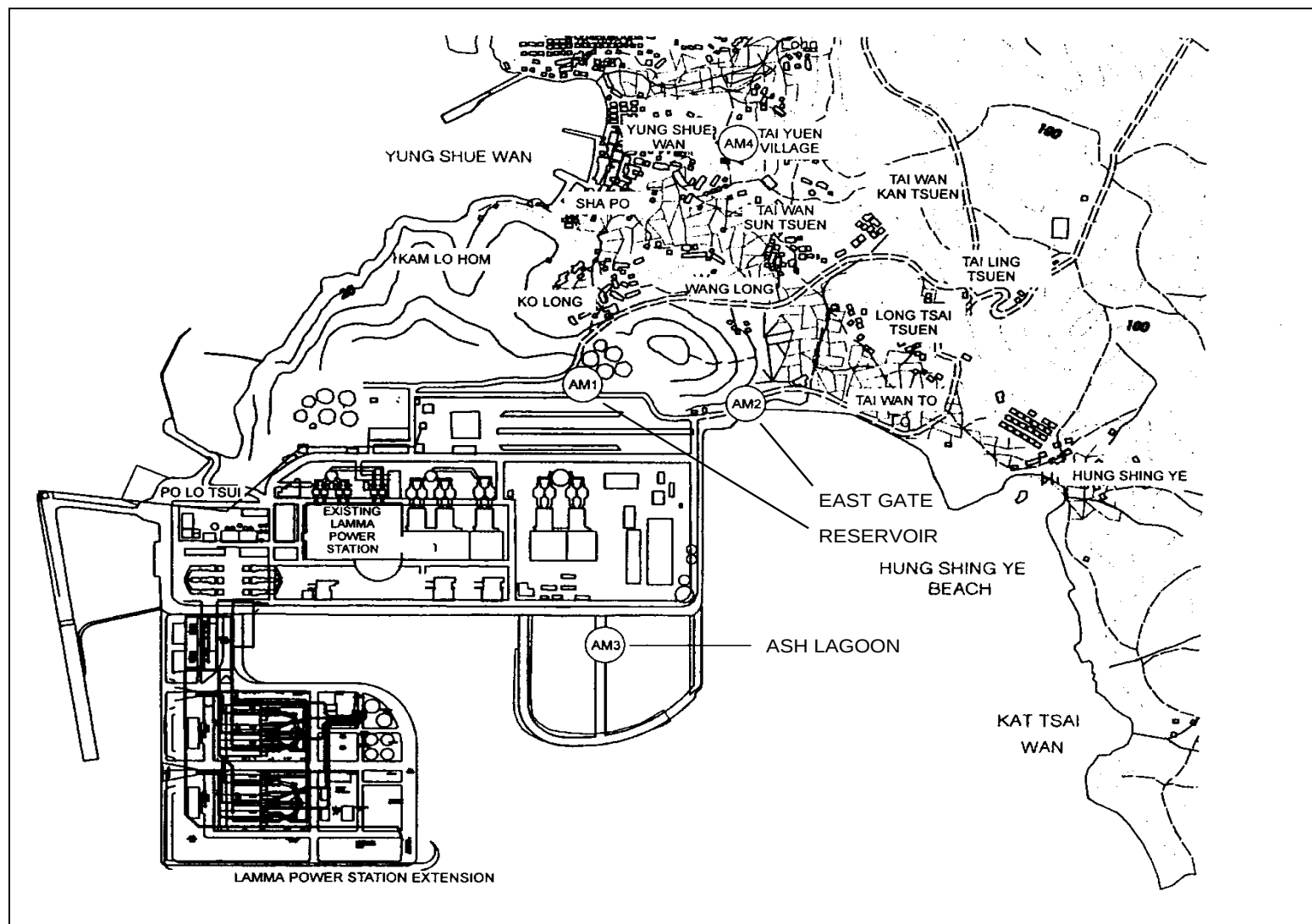


Figure 2.1 Location of Air Quality Monitoring Stations

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 August 2025. The next calibrations for the two corresponding noise monitoring stations were scheduled in February 2026.

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.

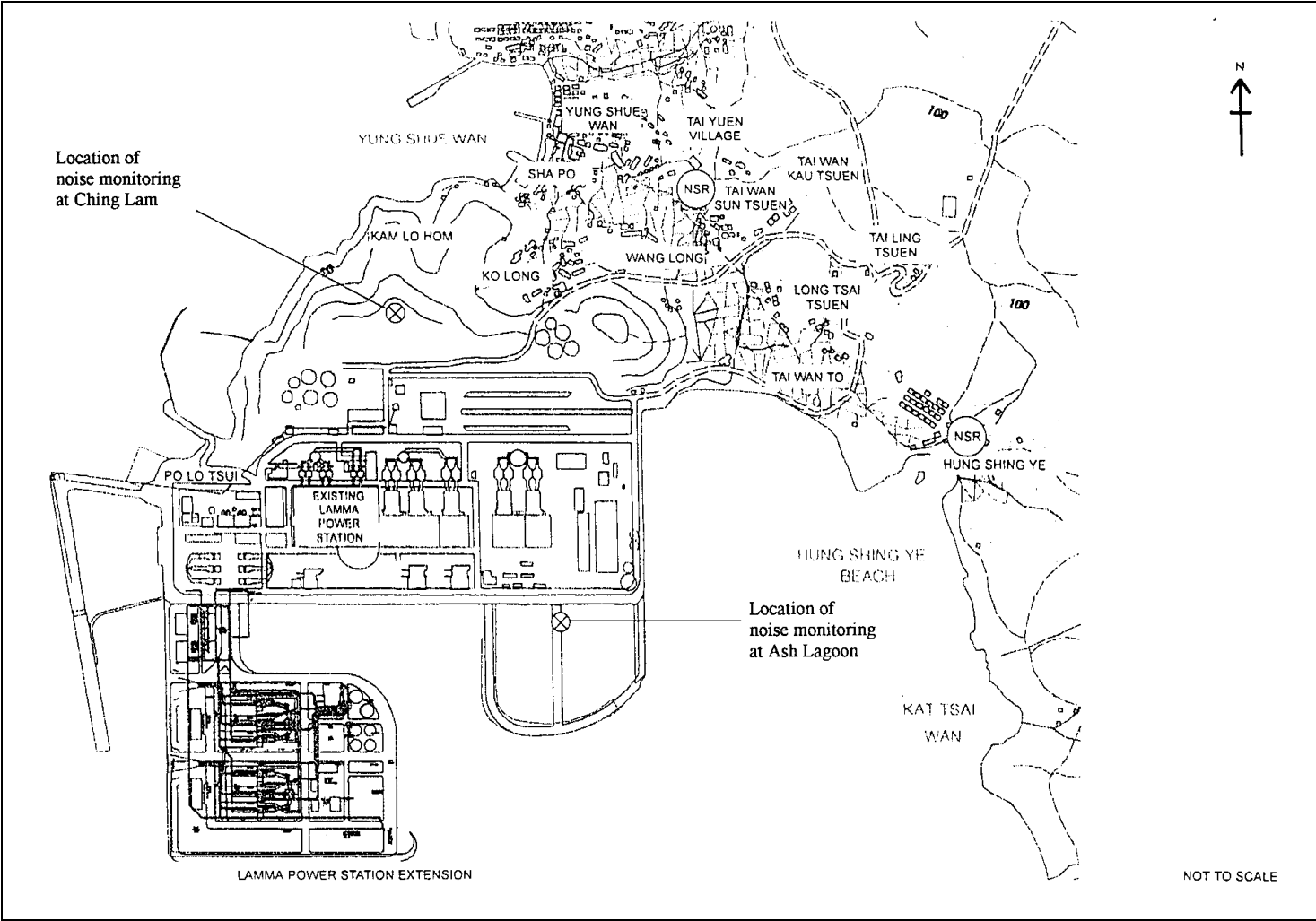


Figure 3.1 Location of Noise Monitoring Stations

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)	01/08/2025-31/08/2025	0	0	
2	Ambient TSP (1-hour)	01/08/2025-31/08/2025	0	0	
Noise					
1	Noise level at the critical NSR’s predicted by the noise alarm monitoring system	01/08/2025-31/08/2025	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 August 2025 are shown in [Table 4.2](#).

Table 4.2 Estimated Amounts of Waste in August 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	3.80 Tonnes	13.22 Tonnes	0 Tonnes

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

4.4 Site Environmental Audit

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

Table 4.4 Environmental Complaints Received in August 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

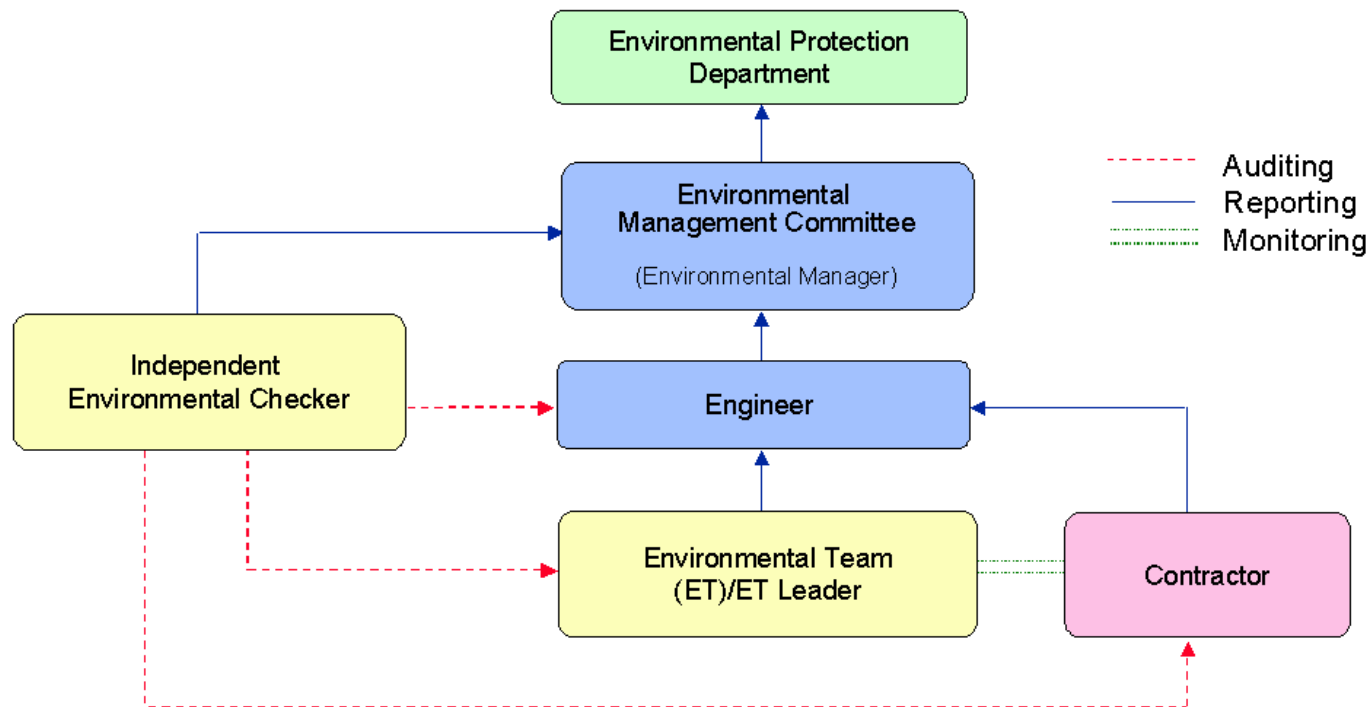


Figure A.1 Organisation of EM&A Programme at Construction Phase

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 (August 2025 to November 2025)

24hr TSP Monitoring	1hr TSP Monitoring
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
5/November/2025	5/November/2025 1500hr to 1800hr
11/November/2025	11/November/2025 1500hr to 1800hr
17/November/2025	17/November/2025 1500hr to 1800hr
23/November/2025	23/November/2025 1500hr to 1800hr
29/November/2025	29/November/2025 1500hr to 1800hr

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: August 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. (%)
1/8/2025	34	40	24	13	21.1	230	79
7/8/2025	31	50	36	22	5.6	180	80
13/8/2025	26	39	23	19	20.0	250	77
19/8/2025	25	28	29	28	18.5	110	94
25/8/2025	20	33	16	13	22.3	80	76
31/8/2025	13	15	14	8	15.6	80	75

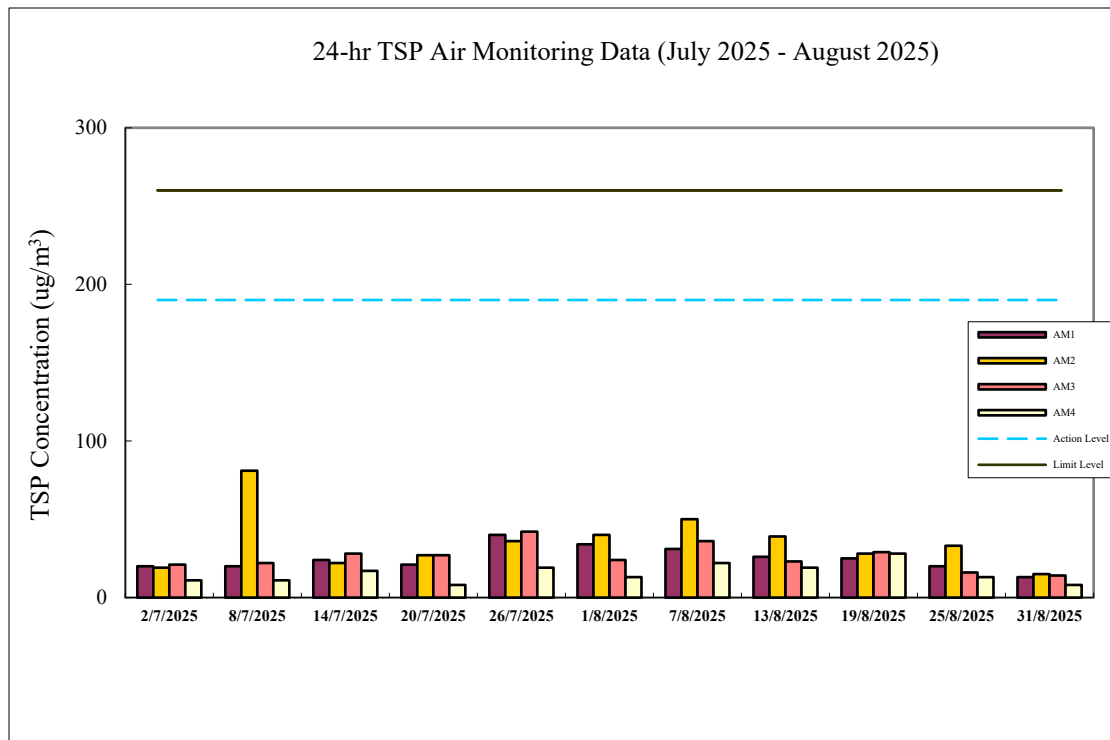
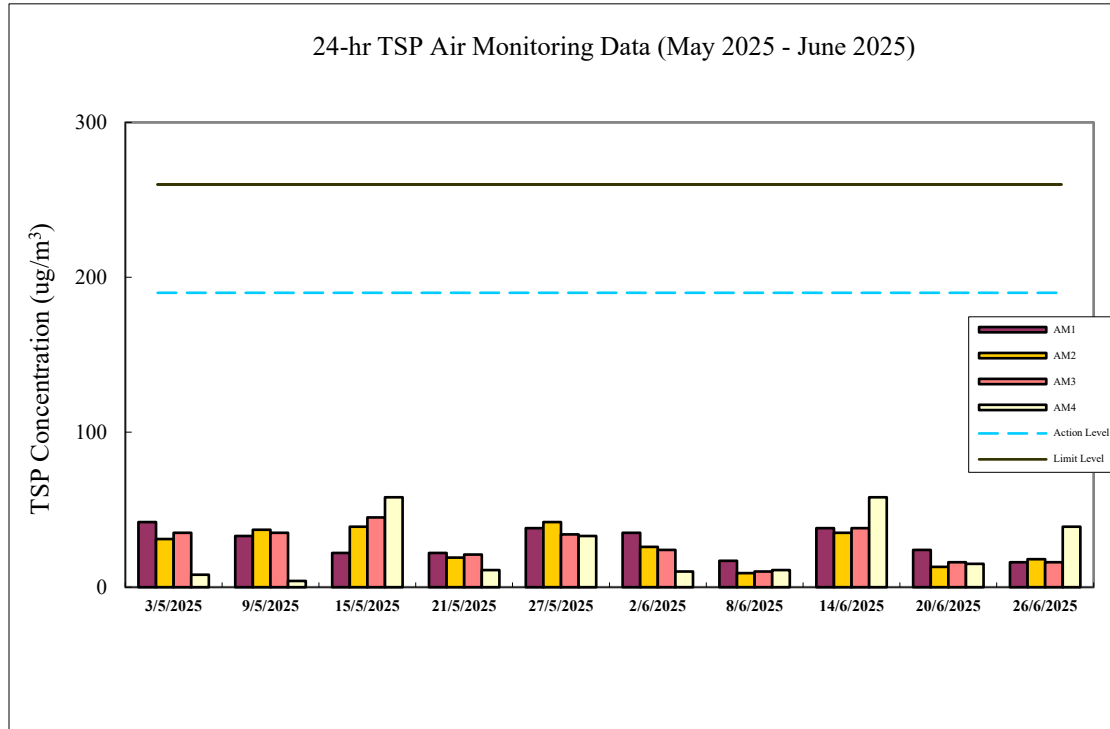
1 hour TSP Measurement:-

Date	Time	TSP concentration ($\mu\text{g}/\text{m}^3$)		
		Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)
1/8/2025	15:00 - 15:59	31	46	18
	16:00 - 16:59	32	42	26
	17:00 - 17:59	32	40	14
7/8/2025	15:00 - 15:59	24	94	36
	16:00 - 16:59	33	180	39
	17:00 - 17:59	36	123	31
13/8/2025	15:00 - 15:59	34	54	19
	16:00 - 16:59	35	57	21
	17:00 - 17:59	39	49	33
19/8/2025	15:00 - 15:59	31	39	36
	16:00 - 16:59	36	33	19
	17:00 - 17:59	24	23	9
25/8/2025	15:00 - 15:59	30	72	42
	16:00 - 16:59	35	69	40
	17:00 - 17:59	19	38	13
31/8/2025	15:00 - 15:59	17	20	23
	16:00 - 16:59	20	20	16
	17:00 - 17:59	14	20	21

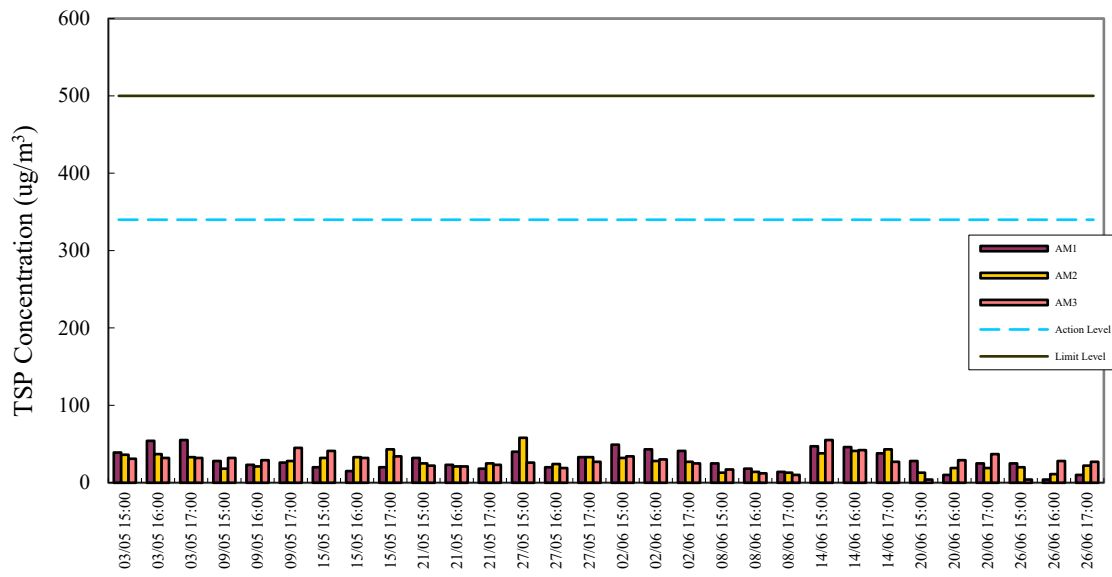
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	24-hr TSP ($\mu\text{g}/\text{m}^3$)
Action Level	340	190
Limit Level	500	260
Calibration:	Calibration details are shown in appendix F.	

Equipment used:

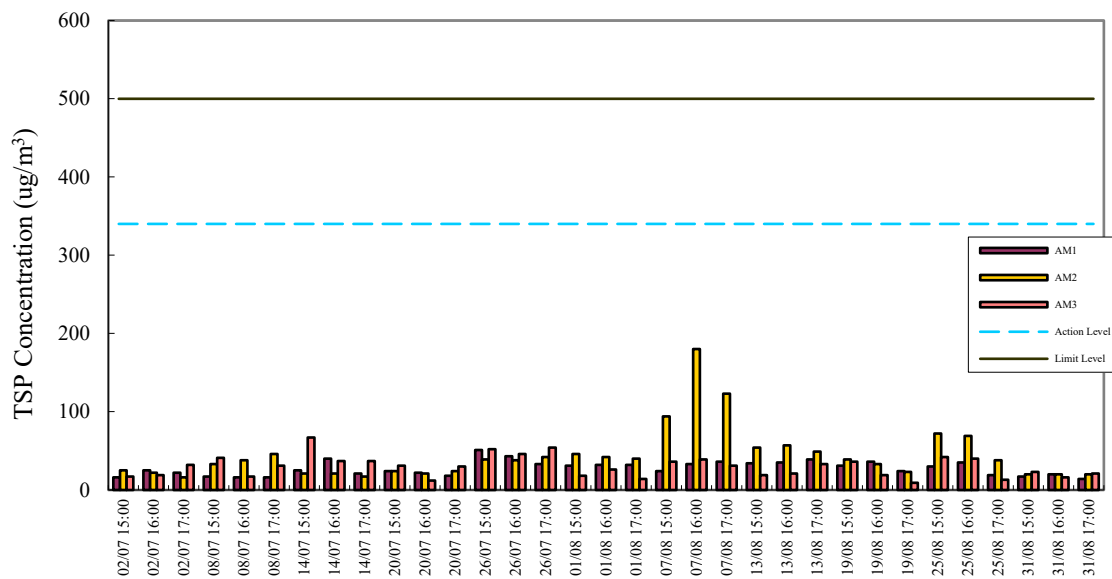
Location	1-hr TSP	24-hr TSP
Reservoir, East Gate and Ash Lagoon	TEOM	TEOM
Tai Yuen Village	-	MINIVOL Portable Sampler



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



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



Appendix E**Continuous Noise Monitoring Results for August 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)

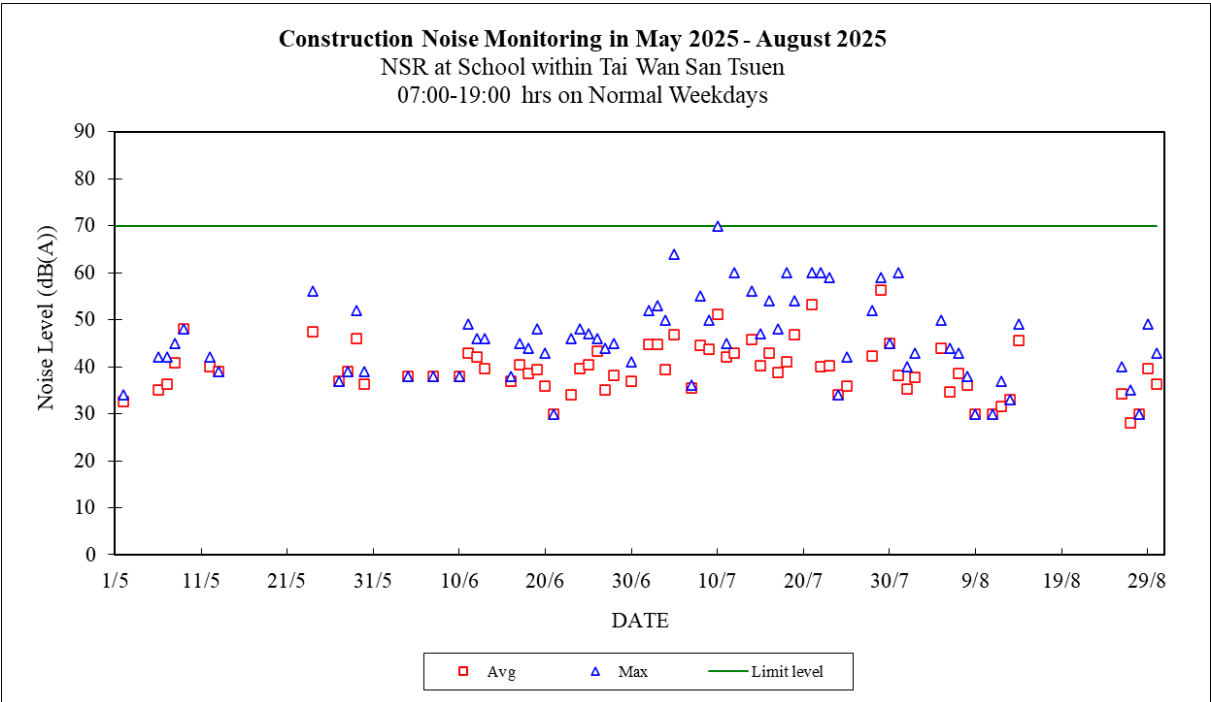
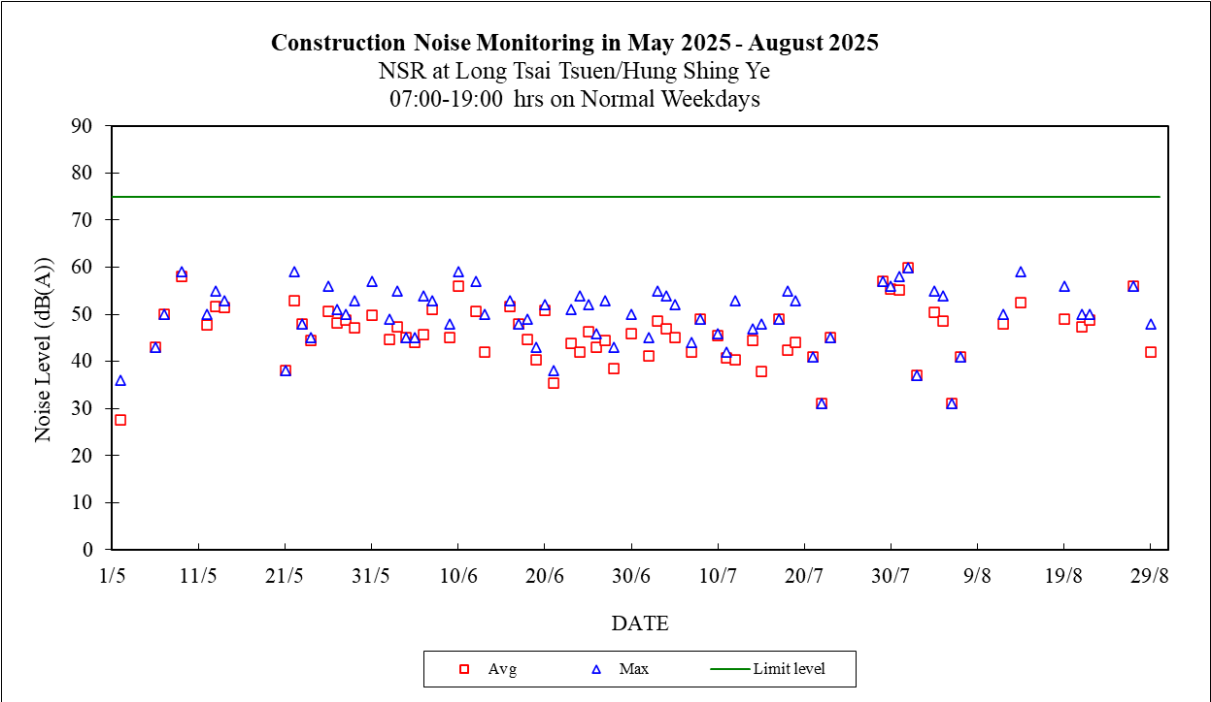
Date	Time	Calculated Noise Level at NSR at Long Tsai Tsuen/Hung Shing Ye (dB(A))		Limit Noise Level (dB(A))	Calculated Noise Level at NSR at the school within Tai Wan San Tsuen (dB(A))		Limit Noise Level (dB(A))
		Max	Avg		Max	Avg	
1/08/2025	07:00-19:00	60	60	75	40	35	70
1/08/2025	19:00-23:00	40	40	60	45	37	60
1/08/2025	23:00-07:00	---	---	45	44	35	45
2/08/2025	07:00-19:00	37	37	75	43	38	70
2/08/2025	19:00-23:00	43	37	60	42	36	60
2/08/2025	23:00-07:00	45	40	45	45	42	45
3/08/2025	07:00-23:00	55	43	60	50	40	60
3/08/2025	23:00-07:00	43	43	45	45	43	45
4/08/2025	07:00-19:00	55	51	75	---	---	70
4/08/2025	19:00-23:00	43	43	60	49	46	60
4/08/2025	23:00-07:00	30	30	45	45	41	45
5/08/2025	07:00-19:00	54	49	75	50	44	70
5/08/2025	19:00-23:00	---	---	60	43	42	60
5/08/2025	23:00-07:00	44	41	45	45	39	45
6/08/2025	07:00-19:00	31	31	75	44	35	70
6/08/2025	19:00-23:00	30	30	60	46	40	60
6/08/2025	23:00-07:00	40	40	45	43	37	45
7/08/2025	07:00-19:00	41	41	75	43	39	70
7/08/2025	19:00-23:00	44	42	60	50	43	60
7/08/2025	23:00-07:00	43	39	45	45	35	45
8/08/2025	07:00-19:00	---	---	75	38	36	70
8/08/2025	19:00-23:00	43	43	60	38	38	60
8/08/2025	23:00-07:00	19	19	45	38	33	45
9/08/2025	07:00-19:00	---	---	75	30	30	70
9/08/2025	19:00-23:00	42	42	60	41	33	60
9/08/2025	23:00-07:00	42	40	45	41	34	45
10/08/2025	07:00-23:00	51	40	60	42	35	60
10/08/2025	23:00-07:00	41	39	45	41	29	45
11/08/2025	07:00-19:00	---	---	75	30	30	70
11/08/2025	19:00-23:00	---	---	60	35	34	60
11/08/2025	23:00-07:00	45	37	45	39	35	45
12/08/2025	07:00-19:00	50	48	75	37	32	70
12/08/2025	19:00-23:00	---	---	60	36	36	60
12/08/2025	23:00-07:00	---	---	45	39	37	45
13/08/2025	07:00-19:00	---	---	75	33	33	70
13/08/2025	19:00-23:00	39	37	60	45	42	60
13/08/2025	23:00-07:00	43	38	45	45	33	45

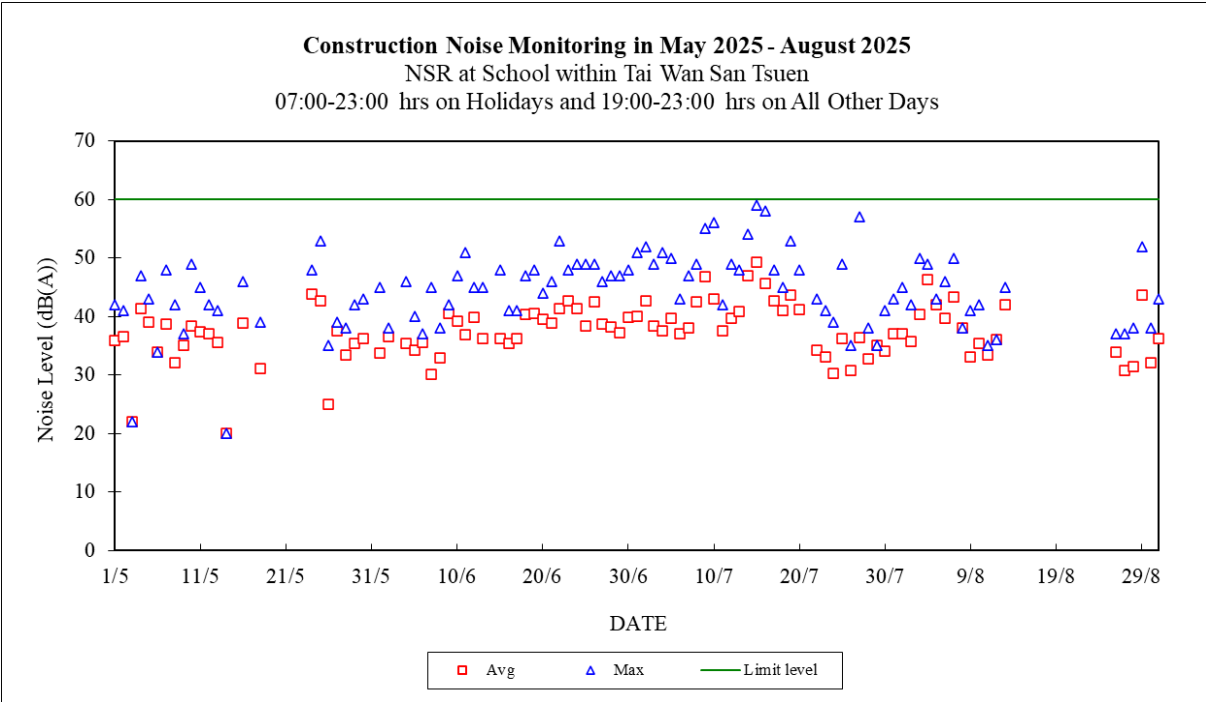
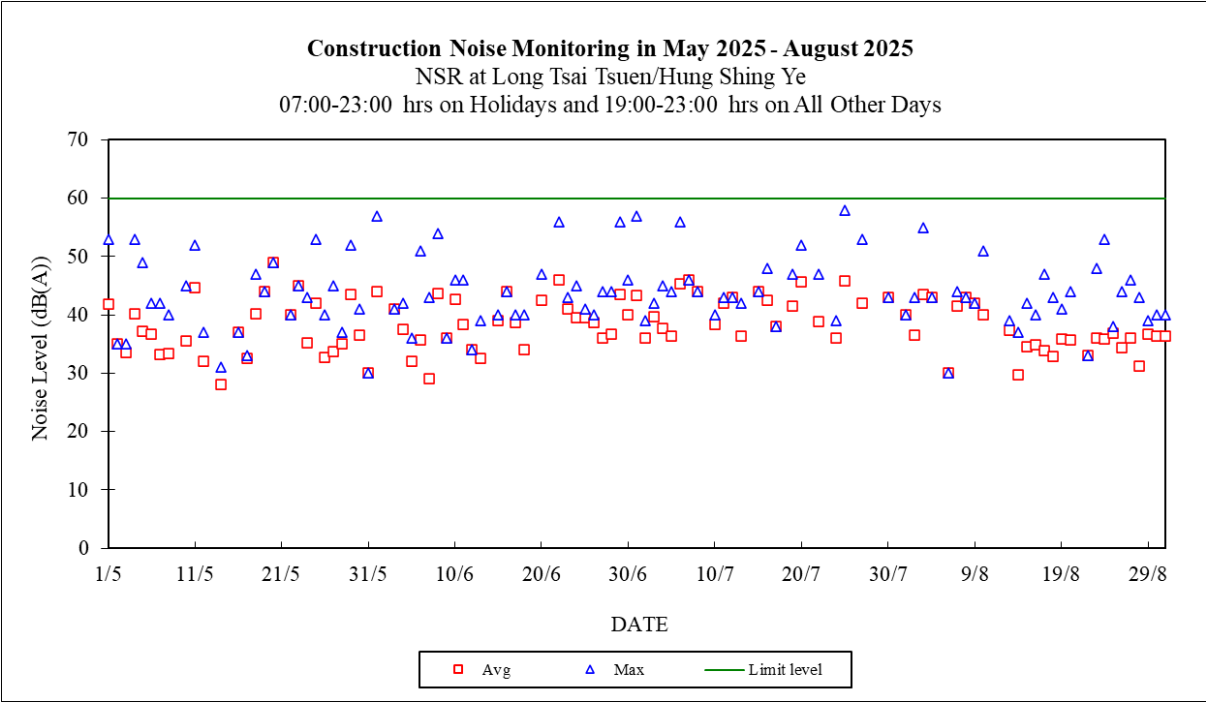
14/08/2025	07:00-19:00	59	52	75	49	46	70
14/08/2025	19:00-23:00	37	30	60	---	---	60
14/08/2025	23:00-07:00	36	30	45	---	---	45
15/08/2025	07:00-19:00	---	---	75	---	---	70
15/08/2025	19:00-23:00	42	35	60	---	---	60
15/08/2025	23:00-07:00	37	34	45	---	---	45
16/08/2025	07:00-19:00	---	---	75	---	---	70
16/08/2025	19:00-23:00	40	35	60	---	---	60
16/08/2025	23:00-07:00	44	38	45	---	---	45
17/08/2025	07:00-23:00	47	34	60	---	---	60
17/08/2025	23:00-07:00	44	37	45	---	---	45
18/08/2025	07:00-19:00	---	---	75	---	---	70
18/08/2025	19:00-23:00	43	33	60	---	---	60
18/08/2025	23:00-07:00	40	38	45	---	---	45
19/08/2025	07:00-19:00	56	49	75	---	---	70
19/08/2025	19:00-23:00	41	36	60	---	---	60
19/08/2025	23:00-07:00	---	---	45	---	---	45
20/08/2025	07:00-19:00	---	---	75	---	---	70
20/08/2025	19:00-23:00	44	36	60	---	---	60
20/08/2025	23:00-07:00	45	32	45	---	---	45
21/08/2025	07:00-19:00	50	47	75	---	---	70
21/08/2025	19:00-23:00	---	---	60	---	---	60
21/08/2025	23:00-07:00	45	33	45	---	---	45
22/08/2025	07:00-19:00	50	49	75	---	---	70
22/08/2025	19:00-23:00	33	33	60	---	---	60
22/08/2025	23:00-07:00	35	28	45	---	---	45
23/08/2025	07:00-19:00	---	---	75	---	---	70
23/08/2025	19:00-23:00	48	36	60	---	---	60
23/08/2025	23:00-07:00	37	32	45	---	---	45
24/08/2025	07:00-23:00	53	36	60	---	---	60
24/08/2025	23:00-07:00	38	33	45	---	---	45
25/08/2025	07:00-19:00	---	---	75	---	---	70
25/08/2025	19:00-23:00	38	37	60	---	---	60
25/08/2025	23:00-07:00	42	34	45	---	---	45
26/08/2025	07:00-19:00	---	---	75	40	34	70
26/08/2025	19:00-23:00	44	34	60	37	34	60
26/08/2025	23:00-07:00	41	34	45	40	30	45
27/08/2025	07:00-19:00	56	56	75	35	28	70
27/08/2025	19:00-23:00	46	36	60	37	31	60
27/08/2025	23:00-07:00	41	35	45	39	31	45
28/08/2025	07:00-19:00	---	---	75	30	30	70
28/08/2025	19:00-23:00	43	31	60	38	31	60
28/08/2025	23:00-07:00	40	34	45	45	37	45
29/08/2025	07:00-19:00	48	42	75	49	40	70
29/08/2025	19:00-23:00	39	37	60	52	44	60
29/08/2025	23:00-07:00	42	33	45	45	36	45
30/08/2025	07:00-19:00	---	---	75	43	36	70
30/08/2025	19:00-23:00	40	36	60	38	32	60
30/08/2025	23:00-07:00	---	---	45	44	41	45
31/08/2025	07:00-23:00	40	36	60	43	36	60
31/08/2025	23:00-07:00	43	37	45	44	41	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).
- From 14 to 25 August, the calculated noise level at NSR at the school within Tai Wan San Tsuen were discarded due to a malfunctioning analog

input card. The data resumed on 26 August following the replacement of the faulty card.

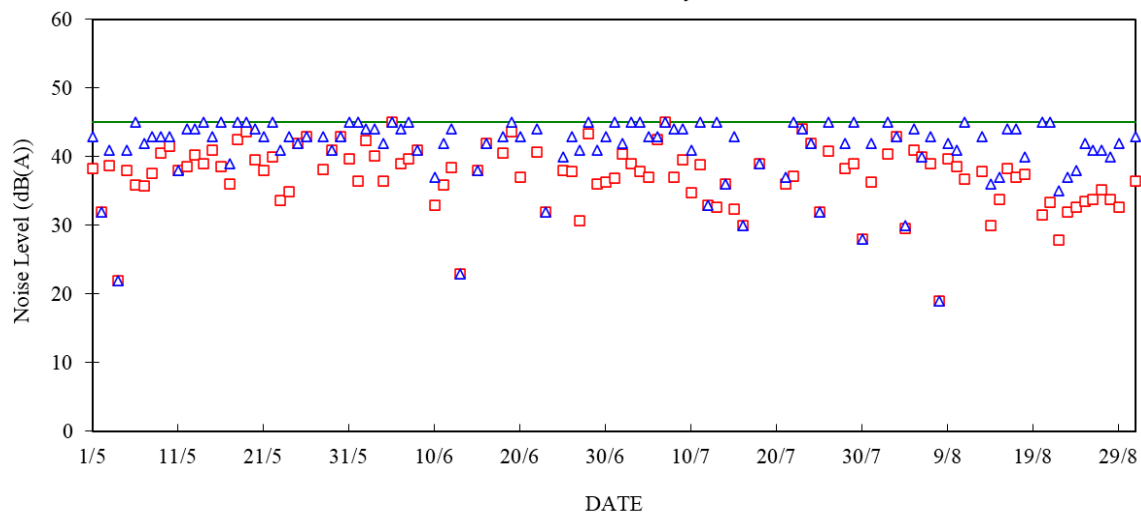




Construction Noise Monitoring in May 2025 - August 2025

NSR at Long Tsai Tsuen/Hung Shing Ye

23:00-07:00 hrs of Next Day

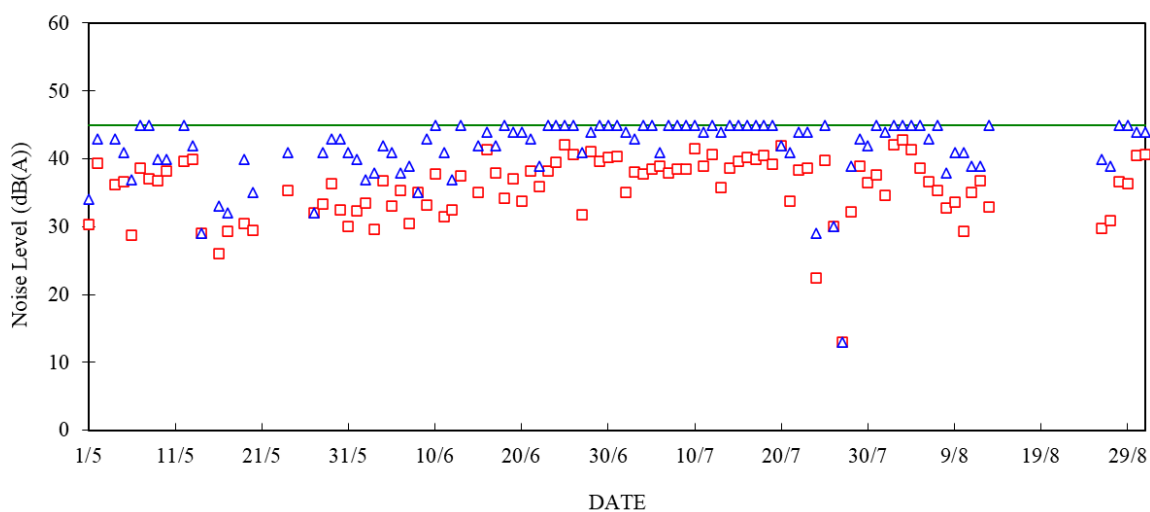


□ Avg ▲ Max — Limit level

Construction Noise Monitoring in May 2025 - August 2025

NSR at School within Tai Wan San Tsuen

23:00-07:00 hrs of Next Day



□ Avg ▲ Max — Limit level

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: August

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)
1/8/2025	259.510	4	2.93	13.36
7/8/2025	259.015	4	2.97	13.53
13/8/2025	260.398	4	2.95	13.45
19/8/2025	260.155	4	3.00	13.65
25/8/2025	259.867	4	2.98	13.57
31/8/2025	259.627	4	2.97	13.54

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)
1/8/2025	257.470	4	3.00	13.66
7/8/2025	256.889	4	3.00	13.66
13/8/2025	256.545	4	3.00	13.66
19/8/2025	257.760	4	3.00	13.66
25/8/2025	257.423	4	3.00	13.66
31/8/2025	257.110	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)
1/8/2025	259.644	4	3.00	13.67
7/8/2025	260.054	4	3.00	13.67
13/8/2025	259.803	4	3.00	13.67
19/8/2025	259.715	4	3.00	13.67
25/8/2025	259.501	4	3.00	13.67
31/8/2025	259.266	4	2.78	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
21/8/2025 / 15:00	Alex Ng

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used Filter Paper No.	MT99
New Filter Paper No.	MT100

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

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)
01/08/2025	Passed	0.06	Passed	0.03
02/08/2025	Passed	0.06	Passed	0.01
03/08/2025	Passed	0.05	Passed	0.02
04/08/2025	Passed	0.04	Passed	0.02
05/08/2025	Passed	0.05	Passed	0.05
06/08/2025	Passed	0.03	Passed	-0.02
07/08/2025	Passed	0.06	Passed	0.00
08/08/2025	Passed	0.06	Passed	0.00
09/08/2025	Passed	0.07	Passed	0.01
10/08/2025	Passed	0.07	Passed	0.02
11/08/2025	Passed	0.08	Passed	0.01
12/08/2025	Passed	0.08	Passed	0.03
13/08/2025	Passed	0.08	Passed	0.02
14/08/2025	Passed	0.02	Passed	-0.03
15/08/2025	Passed	0.08	Passed	-0.01
16/08/2025	Passed	0.07	Passed	0.02
17/08/2025	Passed	0.04	Passed	-0.02
18/08/2025	Passed	0.03	Passed	-0.03
19/08/2025	Passed	0.05	Passed	-0.01
20/08/2025	Passed	0.06	Passed	0.01
21/08/2025	Passed	0.06	Passed	0.02
22/08/2025	Passed	0.08	Passed	0.04
23/08/2025	Passed	0.09	Passed	0.01
24/08/2025	Passed	0.08	Passed	0.02
25/08/2025	Passed	0.07	Passed	0.00
26/08/2025	Passed	0.08	Passed	0.02
27/08/2025	Passed	0.07	Passed	0.01
28/08/2025	Passed	0.10	Passed	0.02
29/08/2025	Passed	0.07	Passed	0.02
30/08/2025	Passed	0.07	Passed	0.00
31/08/2025	Passed	0.07	Passed	0.01

Remarks:

1. 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).
2. The acceptance criterion of deviation from reference is ± 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
Action Level				
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
Limit level				
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	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. Repeat measurement to confirm finding Increase monitoring frequency to daily Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Arrange meeting with Engineer and Contractor to discuss the remedial actions to be taken If exceedance stops, discontinue additional monitoring	ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	failure in writing Checking monitoring data and Contractor's working methods Notify Contractor Discuss proposed remedial actions with ET and Contractor Ensure remedial measures properly implemented 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	avoid further exceedance Submit proposals for remedial actions to Engineer within 3 working days of notifications Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the Engineer until the exceedance is abated

Table G.2 Event and Action Plans for Construction Noise

Exceedance	ET Leader	IEC	Engineer	Contractor
Action Level	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.			
Limit Level	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
	equipment and Contractor's working methods; Discuss mitigation measure with Engineer and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level.		implemented mitigation measures.	within 3 working days and discuss with Engineer; Implement the agreed mitigation measures.
Limit level exceeded by more than one consecutive sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform Contractor, IEC and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with Engineer and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.	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 implemented mitigation measures; 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.	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 Engineer; Implement the agreed mitigation measures.. As directed by the Engineer, to slow down or to stop all or part of the marine work

Appendix H Summary of Site Audit Findings

L13 Civil and Building Works

Dates of Inspection: 6/8/2025, 12/8/2025, 19/8/2025 and 26/8/2025.

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
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as: - the haul roads shall be sprayed with water to keep the entire road surface wet. - the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle. - the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	
		C
		C
		C
A2	For the concrete batching plant, the following control measures are recommended: - loading, unloading, handling, transfer or storage of any dusty materials shall be carried out in a totally enclosed system. - The materials which may generate airborne dust emissions shall be wetted by water spray system. - All receiving hoppers shall be enclosed on three sides up to 3m above unloading point. - All conveyor transfer points shall be totally enclosed.	
		C
		C
		C
		C
	WATER QUALITY	
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: ** - reducing the number of dredgers working at any one time; - reducing the rate of working of the dredgers; - temporary suspension of operations; - phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle.	N/A

EM&A Log Ref.	Mitigation Measures	Implementation Status
B7	In addition to the above specific measures the following general working procedures shall be adopted. ** - fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column; - the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging; - barges shall be loaded carefully to avoid splashing of material; - 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; - 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; - the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments; "rainbowing" sand fill from trailer dredgers shall not be permitted; and - 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.	
		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
	NOISE	
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
	LANDSCAPE & VISUAL IMPACTS	
D1	The following mitigation measures shall be allowed for landscape and visual improvement: - Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look. - Break the mass of main buildings by varying the height/division into smaller units. - Plant trees and vegetation for screening. - Adopt colour scheme to blend the buildings into the scenery.	
		C
		C
		C
		C

EM&A Log Ref.	Mitigation Measures	Implementation Status
	WASTE MANAGEMENT	
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	- Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers. - 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. - Disposal of waste at Licensed sites; - 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; - Segregate and sort the waste materials into 3 categories: - public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area; - re-use and/or recycling waste (e.g. steel and other metals); - waste which cannot be re-used and/or recycled (e.g. wood, glass and plastic) for landfill disposal. - 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. - Maintain records of the quantities of wastes generated and disposed off-site for each category of waste.	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
	LAND CONTAMINATION	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	MARINE ECOLOGY	

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 ³ 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
	FISHERIES	
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A
	RISK ASSESSMENT	
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 Extention Civil and Building Works for Unit 13 (Final) R2

Project Programme of Works

Activity ID	Activity Name	Original Duration	Start	Finish
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

 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

Activity ID	Activity Name	Original Duration	Start	Finish
I1020a	Plan Achievement of Section I(ii)	0		09-Nov-2027*
SECTION J				
J1000	(i) Civil works for APX cable diversion at LMX (refer to Area G11)	304	01-Jul-2027*	30-Apr-2028
J1000a	Plan Achievement of Section J(i)	0		29-Apr-2028*
J1010	(ii) APX cable diversion works at LPS (Whole of the Works except corresponding trench deferred work listed in PS1.4.4)	546	01-Jan-2027*	30-Jun-2028
J1010a	Plan Achievement of Section J(ii)	0		29-Jun-2028*
SECTION K				
K1000	inspection manhole construction for L11 C.W. Inlet pipes inside L11 MSB at Area G21	122	01-Sep-2025*	01-Jan-2026
K1000a	Plan Achievement of Section K	0		10-Dec-2025*
SECTION L				
L1000	Refurbishment work on existing workshop areas between Generation Maintenance Building and Training & Workshop Building	274	01-Apr-2025	31-Dec-2025
L1000a	Plan Achievement of Section L	0		29-Dec-2025*
SECTION M				
M1000	Delivery of L13 HRSG lift shaft precast concrete panels to LMX as shown in 554/0/3/031/0173 to /0173	0		01-Aug-2027*
M1000a	Plan Achievement of Section M	0		26-Jul-2027
SECTION N				
N1000	i) L13 MSB works	0		31-Jan-2028*
N1000a	Plan Achievement of Section N(i)	0		31-Jan-2028*
N1010	(ii) Other works shall be completed for reporting completion to BDand ready for Occupation Permit (OP) inspection	0		30-Apr-2028*
N1010a	Plan Achievement of Section N(ii)	0		31-Jan-2028*
SECTION O				
O1000	(i) Emergency shower pit at L10 MSB	91	01-Sep-2025*	30-Nov-2025
O1000a	Plan Achievement of Section O(i)	0		15-Nov-2025*
O1010	(ii) Emergency show pit at L11 MSB	91	01-Nov-2025*	31-Jan-2026
O1010a	Plan Achievement of Section O(ii)	0		16-Jan-2026*
SECTION P				
P1000	all remaining works except deferred works	0		30-Jun-2028*
P1000a	Plan Achievement of Section P	0		29-Jun-2028*
SECTION Q				
SECTION Q1				
Q1_1000	(i) Fabrication of L12 Precast Panel with steel sub-frame (Optional Works (1))	150	15-Jan-2025*	14-Jun-2025
Q1_1000a	Plan Achievement of Section Q1(i)	0		14-Jun-2025*
Q1_1010	(iii) Construction of in-situ Roof Slab (Optional Works (1))	21	15-Oct-2025*	05-Nov-2025
Q1_1010a	Plan Achievement of Section Q1(ii)	0		05-Nov-2025*
SECTION Q2				
Q2_1000	Improvement Works for Existing L11 C.W. Inlet Pipe inside L11 MSB (Optional Works (2))	364	01-Aug-2025*	31-Jul-2026
Q2_1010a	Plan Achievement of Section Q2	0		30-Jun-2026*
COORDINATION WITH EMPLOYER'S E&M SPECIALIST CONTRACTORS				
SC1000	Item 2 - Template setting at L13 Turbo Block foundation	45	01-May-2026*	14-Jun-2026
SC1010	Item 3 - Template setting of holding down bolts at HRSG column base	45	31-Mar-2026*	14-May-2026
SC1020	Item 4 - I-Beam / channel base installation on top of transformer foundations at transformer area	45	01-Sep-2026*	15-Oct-2026
SC1030	Item 5 -OH crane at turbine hall access through temp opening at L13 MSB roof bet GL13-G to 13-H & 13-2 to 13-6 (setting)	29	01-Apr-2026*	30-Apr-2026
SC1040	Item 5 - OH crane at turbine hall access through temp opening at L13MSB roof bet GL13-G to 13-H & 13-2 to 13-6 (install)	6	01-May-2026*	07-May-2026
SC1050	Item 6 ; Condenser assembly and erection using access through a temporary façade opening at L13 MSB below 1/F along GL	153	01-Jun-2026*	31-Oct-2026
SC1060	Item 7 - Install power train equip includ air inlet duct access through a temporary façade opening at L13 MSB below 1/F	122	01-Aug-2026*	30-Nov-2026
SC1070	Item 9 - Installation of busduct and IPB assembly works, cable laying and cooling water piping at transformer area	122	16-May-2027*	15-Sep-2027
DEFERRED WORKS IN RESPECTIVE SECTIONS (PS1.4.4)				
L13 MSB and HRSG				
DW1000	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	37	08-May-2026*	14-Jun-2026
DW1000a	Plan implementation of Item 1 - Deferred Works	36	09-May-2026	13-Jun-2026
DW1000b	Plan start of Item 1 - Deferred Works	0	09-May-2026*	
DW1010	2) Construction of walls of L13 MSB below 1/F at GL 13-6 from GL13-B to 13-C & ass. precast stair incl. enclosure wal	89	01-Dec-2026*	28-Feb-2027
DW1010A	Plan implementation of Item 2 - Deferred Works	90	01-Dec-2026	28-Feb-2027
DW1020	3) Construction of internal partition wall at 1/F of L13 MSB along GL 13-C from GL 13-2 to 13-3	31	22-Dec-2026*	22-Jan-2027
DW1020a	Plan implementation of Item 3 - Deferred Works	31	22-Dec-2026	22-Jan-2027
DW1025	4) Construction of L13 MSB GF slab in corridor as shown in plan 554/03/022/2047	29	01-Sep-2026*	30-Sep-2026
DW1025a	Plan implementation of Item 4 Deferred Works	29	01-Sep-2026	30-Sep-2026
DW1030	5) (a) Construction of IPB support and sunshade support at transformer area	44	01-Apr-2027*	15-May-2027
DW1030a	Plan implementation of Item 5(a) Deferred Works	45	01-Apr-2027	15-May-2027
DW1040	5)(b) Construction of metal fence and asso F.S. install & install of removable shelter at transformer area	457	01-Oct-2027*	31-Dec-2028
DW1040a	Plan implementation of Item 5(b) Deferred Works	366	01-Oct-2027	30-Sep-2028
DW1050	6) (a) Constr. of conc plirths for Urea to Ammonia Conversion Sys equip & pipe rack, plants in south part of L13 HRSG	90	01-Mar-2027*	30-May-2027
DW1050a	Plan implementation of Item 6(a) Deferred Works	91	01-Mar-2027	30-May-2027
DW1060	6) (b) Completion east side facade cladding and its associated work at grid 13-H and grid 13-5/13-6	60	01-Mar-2027*	30-Apr-2027
DW1060a	Plan implementation of Item 6(b) Deferred Works	60	01-Mar-2027	30-Apr-2027
DW1070	7(a) Construction of roof slab and its ass. work on L13 HRSG lift shaft after completion of erection	30	01-Dec-2027*	31-Dec-2027
DW1070a	Plan implementation of Item 7(a) Deferred Works	29	01-Dec-2027	30-Dec-2027

Achievement of Deferred Works

Remaining Work

Critical Activities

Milestone

Tenderer's Techincal 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

HEC_24-83005

Data-Date: 01-Jan-2025

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Activity ID	Activity Name	Original Duration	Start	Finish	2025					2026					2027					2028					2029					2030					2031					2032																												
					J	J	A	J	J	S		J			J	J	A		J			J	J	A	J	J	S		J			J	J	A	J	J	S																															
 DW1080	7) (b) Construction of associated building services works (MVAC, FS and Lift works by NSC)	151	01-Jan-2028*	31-May-2028																																	 7) (b) Construction of associated building services works (MVAC, FS and Lift works by NSC)																															
 DW1080a	Plan implementation of Item 7(b) Deferred Works	151	01-Jan-2028	31-May-2028																																	 Plan implementation of Item 7(b) Deferred Works																															
 DW1160	8) Construction of gas pipe protective barrier and utility platform from +6.85 to +30.12	89	01-Dec-2026*	28-Feb-2027																																	 8) Construction of gas pipe protective barrier and utility platform from +6.85 to +30.12																															
 DW1160a	Plan implementation of Item 8 Deferred Works	89	01-Dec-2026	28-Feb-2027																																	 Plan implementation of Item 8 Deferred Works																															
 EXTERNAL WORKS																																																																				
 DW1170	9) (i) Final reinst of access rd & pave surrounding and w/in L13 MSB & L13 HRSG area (incl Area G3, G4,G5)	183	01-Aug-2027*	31-Jan-2028																																	 9) (i) Final reinst of access rd & pave surrounding and w/in L13 MSB & L13 HRSG area (incl Area G3																															
 DW1170a	Plan implementation of Item 9(i) Deferred Works	184	01-Aug-2027	31-Jan-2028																																	 Plan implementation of Item 9(i) Deferred Works																															
 DW1180	9) (ii) Final reinstatement of access roads and pavement for Area G6	91	01-Jul-2028*	30-Sep-2028																																	 9) (ii) Final reinstatement of access roads and pavement for Area G6																															
 DW1180a	Plan implementation of Item 9(ii) Deferred Works	92	01-Jul-2028	30-Sep-2028																																	 Plan implementation of Item 9(ii) Deferred Works																															
 DW1190	10) B/F, install trench cover & rd reinstt of 275kV cable trenches link bet Shunt Reactor Bay 7 LMX 275kV SS LMX	60	16-Mar-2028*	15-May-2028																																	 10) B/F, install trench cover & rd reinstt of 275kV cable trenches link bet Shunt Reactor Bay 7																															
 DW1190a	Plan implementation of Item 10 Deferred Works (Shunt Reactor Bay 7)	59	16-Mar-2028	15-May-2028																																	 Plan implementation of Item 10 Deferred Works (Shunt Reactor Bay 7)																															
 DW1200	10) B/F, install trench cover & rd reinstt of 275kV cable trenches link bet Shunt Reactor Bay 8 LMX 275kV SS LMX	60	16-Aug-2028*	15-Oct-2028																																	 10) B/F, install trench cover & rd reinstt of 275kV cable trenches link bet Shunt React																															
 DW1200a	Plan implementation of Item 10 Deferred Works (Shunt Reactor Bay 7)	60	16-Aug-2028	15-Oct-2028																																	 Plan implementation of Item 10 Deferred Works (Shunt Reactor Bay 7)																															
 DW1210	11) B/F, installation of trench cover and rd reinstate of 275kV cable trenches for APX cable diversion at LPS (Part 1)	184	01-Jul-2028*	31-Dec-2028																																	 11) B/F, installation of trench cover and rd reinstate of 275kV cable trenches for																															
 DW1210a	Plan implementation of Item 11 Deferred Works (Part 1)	183	01-Jul-2028	31-Dec-2028																																	 Plan implementation of Item 11 Deferred Works (Part 1)																															
 DW1220	11) B/F, installation of trench cover and rd reinstate of 275kV cable trenches for APX cable diversion at LPS (Part 2)	305	01-Mar-2029*	31-Dec-2029																																	 11) B/F, installation of trench cover and rd reinstate of 27																															
 DW1220a	Plan implementation of Item 11 Deferred Works (Part 2)	305	01-Mar-2029	31-Dec-2029																																	 Plan implementation of Item 11 Deferred Works (Part 2)																															
 DW1230	12) (i) Re-exc existing trenches, construct new trench for cable replace work nearby Shunt Reactor No. 1 (ALC1) at LPS	213	01-Jun-2029*	31-Dec-2029																																	 12) (i) Re-exc existing trenches, construct new trench for c																															
 DW1230a	Plan implementation of Item 12(i) Deferred Works	213	01-Jun-2029	31-Dec-2029																																	 Plan implementation of Item 12(i) Deferred Works																															
 DW1240	12) (ii) B/F & rd reinstat of 275kV cable trenches for cable replacement work nearby Shunt Reactor No.1 (ALC1) at LPS	91	01-Mar-2030*	31-May-2030																																	 12) (ii) B/F & rd reinstat of 275kV cable trench																															
 DW1240a	Plan implementation of Item 12(ii) Deferred Works	91	01-Mar-2030	31-May-2030																																	 Plan implementation of Item 12(ii) Deferred W																															
 DW1250	13) B/F, install trench cover and road-reinstatement of 275kV cable trenches withinArea G11 at LMX	91	01-Oct-2028*	31-Dec-2028																																	 13) B/F, install trench cover and road-reinstatement of 275kV cable trenches wit																															
 DW1250a	Plan implementation of Item 13 Deferred Works (withinArea G11)	91	01-Oct-2028	31-Dec-2028																																	 Plan implementation of Item 13 Deferred Works (withinArea G11)																															
 DW1260	13) B/F, install trench cover and road-reinstatement of 275kV cable trenches withinArea G12 at LMX	91	01-Nov-2027*	31-Jan-2028																																	 13) B/F, install trench cover and road-reinstatement of 275kV cable trenches withinArea G12 at LMX																															
 DW1260a	Plan implementation of Item 13 Deferred Works (withinArea G12)	91	01-Nov-2027	31-Jan-2028																																	 Plan implementation of Item 13 Deferred Works (withinArea G12)																															
 DW1270	14) Installation of trench cover and road reinstatement of existing trenches withinArea G14	57	01-Feb-2027*	30-Mar-2027																																	 14) Installation of trench cover and road reinstatement of existing trenches withinArea G14																															
 DW1270a	Plan implementation of Item 14 Deferred Works	57	01-Feb-2027	30-Mar-2027																																	 Plan implementation of Item 14 Deferred Works																															
 DW1280	15) Construction of concrete plinth for perstock within L13 Penstock Chamber inside No.5 C.W. Intake	32	01-May-2026*	01-Jun-2026																																	 15) Construction of concrete plinth for perstock within L13 Penstock Chamber inside No.5 C.W. Intake																															
 DW1280a	Plan implementation of Item 15 Deferred Works	32	01-May-2026	01-Jun-2026																																	 Plan implementation of Item 15 Deferred Works																															
 CONTRACTOR'S DESIGN SUBMISSION																																																																				
 INDEPENDENT CHECKING ENGINEER																																																																				
 DES100	Confirm appointment of Independent Checking Engineer and submission to Engineer	6	01-Apr-2025	08-Apr-2025																																	 Confirm appointment of Independent Checking Engineer and submission to Engineer																															
 DES200	Enginner's review and approval	24	09-Apr-2025	12-May-2025																																	 Enginner's review and approval																															
 DES300	Confirmation of Engineer's approval	0		12-May-2025																																	 Confirmation of Engineer's approval																															
 ELS																																																																				
 DES1000	ELS - Design preparation	30	31-May-2025	29-Jun-2025																																	 ELS - Design preparation																															
 DES1010	ELS - Submit to Engineer for review	28	30-Jun-2025	27-Jul-2025																																	 ELS - Submit to Engineer for review																															
 DES1020	ELS Update Submission to incorporate Engineer's comments	6	28-Jul-2025	02-Aug-2025																																	 ELS Update Submission to incorporate Engineer's comments																															
 DES1030	ELS - BD submission and approval	60	03-Aug-2025	01-Oct-2025																																	 ELS - BD submission and approval																															
 DES1040	ELS - BD consent to commence excavation	30	02-Oct-2025	31-Oct-2025																																	 ELS - BD consent to commence excavation																															
 DES1090	ELS - BD10 submission	7	01-Nov-2025	07-Nov-2025																																	 ELS - BD10 submission																															
 TOWER CRANE																																																																				
 DES1050	Tower Crane - Design Preparation / Technical submission to Engineer	30	13-May-2025	11-Jun-2025																																	 Tower Crane - Design Preparation / Technical submission to Engineer																															
 DES1060	Tower Crane - Submit to Engineer for Review	28	12-Jun-2025	09-Jul-2025																																	 Tower Crane - Submit to Engineer for Review																															
 DES1070	Tower Crane - Update Submission to Incorporate Comments	12	10-Jul-2025	21-Jul-2025																																	 Tower Crane - Update Submission to Incorporate Comments																															
 DES1080	Tower Crane - Delivery of tower crane assembly to site	0	18-Sep-2025																																		 Tower Crane - Delivery of tower crane assembly to site, 18-Sep-2025																															
 TEMPORARY SUPPORTING SYSTEM FOR APX CABLE DIVERSION																																																																				
 DES1100	Utility Support - Design Preparation	60	04-Aug-2026	02-Oct-2026																																	 Utility Support - Design Preparation																															
 DES1110	Utility Support - Submit to Engineer for Review	28	03-Oct-2026	30-Oct-2026																																	 Utility Support - Submit to Engineer for Review																															
 DES1120	Utility Support - Update Submission to Incorporate Comments	12	31-Oct-2026	11-Nov-2026																																	 Utility Support - Update Submission to Incorporate Comments																															
 DES1130	Utility Support - Engineer's review and consent	12	12-Nov-2026	23-Nov-2026																																	 Utility Support - Engineer's review and consent																															
 STEEL FLUE FOR UNIT 13																																																																				
 DES1135	Steel Flue Unit 13 - Sub-letting and finalize appointment of Design Specialist	15	13-May-2025	27-May-2025																																	 Steel Flue Unit 13 - Sub-letting and finalize appointment of Design Specialist																															
 DES1140	Steel Flue Unit 13 - Design preparation	60	28-May-2025	26-Jul-2025																																	 Steel Flue Unit 13 - Design preparation																															
 DES1150	Steel Flue Unit 13 - Submit to Engineer for review	30	27-Jul-2025	25-Aug-2025																																	 Steel Flue Unit 13 - Submit to Engineer for review																															
 DES1160	Steel Flue Unit 13 - Update Submission to incorporate Engineer's comments	12	26-Aug-2025	06-Sep-2025																																	 Steel Flue Unit 13 - Update Submission to incorporate Engineer's comments																															
 DES1165	Steel Flue Unit 13 - Submit to Engineer for review and submission to BD	12	08-Sep-2025	20-Sep-2025																																	 Steel Flue Unit 13 - Submit to Engineer for review and submission to BD																															
 DES1170	Steel Flue Unit 13 - BD review and approval	60	21-Sep-2025	19-Nov-2025																																	 Steel Flue Unit 13 - BD review and approval																															
 DES1180	Steel Flue Unit 13 -BD consent to commence excavation	30	20-Nov-2025	19-Dec-2025																																	 Steel Flue Unit 13 -BD consent to commence excavation																															
 SUPPORTING RACKS (LMX L9, L10, L11 & L13)																																																																				
 DES1190	LMX Supporting Rack - Design preparation	30	13-May-2025	11-Jun-2025																																	 LMX Supporting Rack - Design preparation																															
 DES1200	LMX Supporting Rack - Submit to Engineer for review and approval	30	12-Jun-2025	11-Jul-2025																																	 LMX Supporting Rack - Submit to Engineer for review and approval																															
 REFURBISHMENT WRKS. ON EXISTING WORKSHOP AREAS BET. GEN. MAINT. BLDG. & TRAIN. WORKSHOP BLDG.																																																																				
 DES1210	Refurbishment Works - Design preparation (horading and roof replacement)	24	13-May-2025	10-Jun-2025																																	 Refurbishment Works - Design preparation (horading and roof replacement)																															
 DES1220	Refurbishment Works - Submission to Engineer for review and approval	30	11-Jun-2025	10-Jul-2025																																	 Refurbishment Works - Submission to Engineer for review and approval																															
 CONTRACTOR'S PROCUREMENT OF KEY MATERIALS AND SERVICES																																																																				

Achievement of Deferred Works

Remaining Work

Critical Activities

Milestone

Tenderer's Techincal 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 Extention 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

[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	S	J		J	A	J		J	A	J	S	J		J	A	J	S	J		J	A	J	S	J		J	A	J	S
	 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																															
	 PILE CAP CD-1a (TOP LEVEL +5.0mPD)																																			
	 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																															
	 PILE CAP CF-1 (TOP LEVEL +6.0mPD)																																			
	 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																															
	 PILE CAP CF-3 (TOP LEVEL +6.0mPD)																																			
	 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 Extention Civil and Building Works for Unit 13 (Final) R2

Project Programme of Works

Activity ID		Activity Name		Original Duration	Start	Finish
TIE BEAM AND GROUND BEAM (GL13-D TO 13-F/GL13-5 TO 13-6) (TOP LEVEL +6.0mPD) B2_Z5_7700Tie Beam - Binding and setting out (GL13-D to 13-F/13-1 to 13-3) B2_Z5_7710Tie Beam - Rebar fixing (GL13-D to 13-F/13-1 to 13-3) B2_Z5_7720Tie Beam - Formworks installation (GL13-D to 13-F/13-1 to 13-3) B2_Z5_7730Tie Beam - Concreting and dismantle formwork (GL13-D to 13-F/13-1 to 13-3)						
TIE BEAM (GL13-F TO 13-H/GL13-1 TO 13-3) (TOP LEVEL +6.0mPD) B2_Z5_7780Tie Beam - Backfilling to formation level (GL13-F to 13-H/GL13-1 to 13-3) B2_Z5_7785Tie Beam - Binding and setting out (GL13-F to 13-H/GL13-1 to 13-3) B2_Z5_7790Tie Beam - Rebar fixing (GL13-F to 13-H/GL13-1 to 13-3) B2_Z5_7800Tie Beam - Formworks installation (GL13-F to 13-H/GL13-1 to 13-3) B2_Z5_7810Tie Beam - Concreting and dismantle formwork (GL13-F to 13-H/GL13-1 to 13-3)						
TIE BEAM (GL13-F TO 13-H/GL13-4 TO 13-6) (TOP LEVEL +6.0mPD) B2_Z5_7820Tie Beam - Backfilling to formation level (GL13-F to 13-H/GL13-4 to 13-6) B2_Z5_7830Tie Beam - Binding and setting out (GL13-F to 13-H/GL13-4 to 13-6) B2_Z5_7840Tie Beam - Rebar fixing (GL13-F to 13-H/GL13-4 to 13-6) B2_Z5_7850Tie Beam - Formworks installation (GL13-F to 13-H/GL13-4 to 13-6) B2_Z5_7860Tie Beam - Concreting and dismantle formwork (GL13-F to 13-H/GL13-4 to 13-6)						
RC COLUMNS COLUMN (GL13-B TO 13-F/GL 13-1 TO 13-3) B2_Z5_8020Column - Rebar fixing (GL13-B to 13-F/GL13-1 to 13-3) B2_Z5_8030Column - Formwork erection (GL13-B to 13-F/GL13-1 to 13-3) B2_Z5_8040Column - Concreting (GL13-B to 13-F/GL13-1 to 13-3) B2_Z5_8050Column - Dismantle formwork (GL13-B to 13-F/GL13-1 to 13-3)						
COLUMN (GL13-D TO 13-F/GL 13-5 TO 13-6) B2_Z5_8260Column - Rebar fixing (GL13-D to 13-F/GL13-5 to 13-6) B2_Z5_8270Column - Formwork erection (GL13-B to 13-F/GL13-1 to 13-3) B2_Z5_8280Column - Concreting (GL13-B to 13-F/GL13-1 to 13-3) B2_Z5_8290Column - Dismantle formwork (GL13-B to 13-F/GL13-1 to 13-3)						
COLUMN (GL13-F TO 13-H/GL 13-1 TO 13-3) B2_Z5_8060Column - Rebar fixing (GL13-F to 13-H/GL13-1 to 13-3) B2_Z5_8070Column - Formwork erection (GL13-F to 13-H/GL13-1 to 13-3) B2_Z5_8080Column - Concreting (GL13-F to 13-H/GL13-1 to 13-3) B2_Z5_8090Column - Dismantle formwork (GL13-F to 13-H/GL13-1 to 13-3)						
COLUMN (GL13-F TO 13-H/GL 13-4 TO 13-6) B2_Z5_8100Column - Rebar fixing (GL13-F to 13-H/GL13-4 to 13-6) B2_Z5_8110Column - Formwork erection (GL13-B to 13-F/GL13-1 to 13-3) B2_Z5_8120Column - Concreting (GL13-B to 13-F/GL13-1 to 13-3) B2_Z5_8130Column - Dismantle formwork (GL13-B to 13-F/GL13-1 to 13-3)						
STRUCTURAL WALL (TOP LEVEL +7.0mPD) B2_Z5_3990Structural Wal - GL 13-A to 13-B/GL 13-1 to 13.4) B2_Z5_4000Structural Wal - GL 13-B to 13-F/GL13-1 to 13.3 B2_Z5_4010Structural Wal - GL13-F to 13-H/GL13-1 to 13.3 B2_Z5_4020Structural Wal - GL 13-F/GL13-1 to 13.3 B2_Z5_4030Structural Wal - GL 13-F to 13H/GL13-3 to 13-6						
EQUIPMENT BEAM B2_Z5_4125Equipment Beam - Construction (GB-E23/E5) (including cable trenches) B2_Z5_4130Equipment Beam - Construction (GB-M09) B2_Z5_4132Equipment Beam - Construction (GB-M10a) B2_Z5_4133Equipment Beam - Construction (GB-M04) B2_Z5_4134Equipment Beam - Construction (M-10a & M-10b) B2_Z5_4140Equipment Beam - Construction (GB-M06) B2_Z5_4145Equipment Beam - Construction (GB-M21)						
EQUIPMENT CONCRETE PLINTH B2_Z5_4025Equipment Plinth - GL 13-A to 13-B/GL 13-1 to 13.4 (including cable trenches) B2_Z5_4050Equipment Plinth - GL 13-B to 13-F/GL 13-1 to 13.3 B2_Z5_4060Equipment Plinth - GL 13-B to 13-D/GL 13.3 to 13.4 B2_Z5_4070Equipment Plinth - GL 13-B to 13-F/GL 13.4 to 13.6 B2_Z5_4080Equipment Plinth - GL 13-F to 13-H/GL 13-1 to 13.3 B2_Z5_4090Equipment Plinth - GL 13-F to 13-H/GL 13.4 to 13.6						
SUPERSTRUCTURE GL 13-A TO 13-B/GL 13-1 TO 13.4 (OUTDOOR TRANSFORMER AREA) B2_4000Ground Floor RC Slab - GL 13-A to 13-B/GL 13-1 to 13.4 B2_4010Steel Post for Pipe Rack - Erection of columns						

 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
B2_25056/FL +45.5mPD - Installation of Building Services (PS1.3.1) and finishes7229-Jul-202623-Oct-2026 UPPER ROOF +50.7mPD - +50.8mPD B2_2500Upper Roof +50.8 / 54.525mPD - Instalation of steel beams1230-Jun-202614-Jul-2026 B2_2510Upper Roof +50.8 / 54.525mPD - Construct of RC slab with "LYCRODECK"1208-Jul-202621-Jul-2026 B2_25206/FL +45.5mPD - Construction of parapet622-Jul-202628-Jul-2026 B2_25256/FL +45.5mPD - Roof finishing (waterproofing, screeding, toppings, etc.1229-Jul-202611-Aug-2026 B2_25306/FL +45.5mPD - Installation cat ladders and S.S. poles/trap door612-Aug-202618-Aug-2026 GAS PIPE AND UTILITY PLATFORM (DEFERRED WORKS) B2_2545Construction of gas pipe protective barrier and utility platform from +6.85mPD to +30.128901-Dec-2026*28-Feb-2027 TESTING AND COMMISSIONING B2_2545aBuilding Services - Testing and Commisioning18028-Feb-202727-Aug-2027					
BILL NO. 3 - UNIT 13 HRSG EQUIPMENT ROOM AND ITS ASSOCIATED WORKS					
SUBSTRUCTURE					
HRSG BLOWDOWN SUMP PIT (INVERT LEVEL +1.5mPD)					
B3_1000HRSG Blowdown Sump Pit - Excavation, blinding and setting out203-Jul-202504-Jul-2025 B3_1010HRSG Blowdown Sump Pit - Construct base slab305-Jul-202508-Jul-2025 B3_1020HRSG Blowdown Sump Pit - Construct wall at level +2.0mPD409-Jul-202514-Jul-2025 B3_1030HRSG Blowdown Sump Pit - Construct slab at level +2.0mPD314-Jul-202517-Jul-2025 B3_1040HRSG Blowdown Sump Pit - Construct wall to soffit of tie beams (TB-V19, TB-H25, TB-H27) with Tyoe II mechanical coupler417-Jul-202522-Jul-2025 B3_1050HRSG Blowdown Sump Pit - Backfilling222-Jul-202524-Jul-2025					
WASH WATER DRAIN PIT					
B3_1200Wash Water Drain Pit - Excavation, blinding and setting out (at +2.65mPD)203-Jul-202504-Jul-2025 B3_1210Wash Water Drain Pit - Construct bottom slab and wall kicker405-Jul-202510-Jul-2025 B3_1220Wash Water Drain Pit - Construct wall (top level +7.15mPD)510-Jul-202516-Jul-2025 B3_1230Wash Water Drain Pit - Construct top slab with opeiring (finished level +7.15mPD)516-Jul-202522-Jul-2025 B3_1240Wash Water Drain Pit - Backfilling222-Jul-202524-Jul-2025					
SERVICE LIFT PIT (AT LEVEL +5.150)					
B3_1300Service Lift Pit - Excavation, blinding and setting out222-Jul-202524-Jul-2025 B3_1310Service Lift Pit - Cosntruct slab324-Jul-202528-Jul-2025 B3_1320Service Lift Pit - Construct wall428-Jul-202502-Aug-2025 B3_1330Service Lift Pit - Backfilling102-Aug-202504-Aug-2025					
GT OILY DRAIN PIT / CHEMICAL DRAIN P T					
B3_1400GT Oily / Chemical drain Pits - Blinding and setting out (formation level +4.025mPD)125-Nov-202525-Nov-2025 B3_1410GT Oily / Chemical drain Pits - Construct base slab and wall kicker326-Nov-202528-Nov-2025 B3_1420GT Oily / Chemical drain Pits - Construct wall and top slab (finish level +7.15mPD)529-Nov-202504-Dec-2025 B3_1430GT Oily / Chemical drain Pits - Backfilling105-Dec-202505-Dec-2025					
DRAINAGE WORKS (M/H, PIPES AND U-CHANNELS WITH HEAVY DUTY GRATING)					
B3_1500Drairage Works - Manhole construction MH614A - MH625B1215-Dec-202530-Dec-2025 B3_1510Drairage Works - U-Channel cosntruction605-Jan-202610-Jan-2026 B3_1520Drairage Works - Drainage pipe installation1212-Jan-202624-Jan-2026					
PILE CAP					
PILE CAP CHA-3 (TOP LEVEL +6.0mPD)					
B3_Z5_7340Pile Cap CHA-3 - Trim Bored Pile BP21&22 to cut-off level (formation level at +3.4mPD)602-Oct-202509-Oct-2025 B3_Z5_7350Pile Cap CHA-3 - Install earthing110-Oct-202510-Oct-2025 B3_Z5_7360Pile Cap CHA-3 - Blinding and setting out111-Oct-202511-Oct-2025 B3_Z5_7370Pile Cap CHA-3 - Rebar fixing413-Oct-202516-Oct-2025 B3_Z5_7380Pile Cap CHA-3 - Formworks installation317-Oct-202520-Oct-2025 B3_Z5_7390Pile Cap CHA-3 - Concreting and dismantle formworks321-Oct-202523-Oct-2025					
PILE CAP CSP-1 (TOP LEVEL +6.0mPD)					
B3_Z5_7400Pile Cap CSP-1 - Trim Bored Pile BP20 to cut-off level (formation level at +3.8mPD)326-Jul-202529-Jul-2025 B3_Z5_7410Pile Cap CSP-1 - Install earthing130-Jul-202530-Jul-2025 B3_Z5_7420Pile Cap CSP-1 - Blinding and setting out131-Jul-202531-Jul-2025 B3_Z5_7430Pile Cap CSP-1 - Rebar fixing302-Aug-202505-Aug-2025 B3_Z5_7440Pile Cap CSP-1 - Formworks installation206-Aug-202507-Aug-2025 B3_Z5_7450Pile Cap CSP-1 - Concreting and dismantle formworks308-Aug-202511-Aug-2025					
PILE CAP CSP-2 (TOP LEVEL +6.0mPD)					
B3_Z5_7460Pile Cap CSP-2 - Trim Bored Pile BP23 to cut-off level (formation level at +3.8mPD)326-Jul-202529-Jul-2025 B3_Z5_7470Pile Cap CSP-2 - Install earthing130-Jul-202530-Jul-2025 B3_Z5_7480Pile Cap CSP-2 - Blinding and setting out131-Jul-202531-Jul-2025 B3_Z5_7490Pile Cap CSP-2 - Rebar fixing302-Aug-202505-Aug-2025 B3_Z5_7500Pile Cap CSP-2 - Formworks installation206-Aug-202507-Aug-2025 B3_Z5_7510Pile Cap CSP-2 - Concreting and dismantle formworks308-Aug-202511-Aug-2025					
PILE CAP CHE-3 (TOP LEVEL +6.0mPD)					
B3_Z5_7520Pile Cap CHE-3 - Trim Bored Pile BP24 to cut-off level (formation level at +3.4mPD)330-Jul-202501-Aug-2025 B3_Z5_7530Pile Cap CHE-3 - Install earthing102-Aug-202502-Aug-2025 B3_Z5_7540Pile Cap CHE-3 - Blinding and setting out104-Aug-202504-Aug-2025 B3_Z5_7550Pile Cap CHE-3 - Rebar fixing306-Aug-202508-Aug-2025 B3_Z5_7560Pile Cap CHE-3 - Formworks installation209-Aug-202511-Aug-2025					

Achievement of Deferred Works

Remaining Work

Critical Activities

Milestone

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

Date

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Project Programme of Works

Activity ID	Activity Name	Original Duration	Start	Finish	2025	2026	2027	2028	2029	2030	2031	2032
	B3_Z5_7570 Pile Cap CHE-3 - Concreting and dismantle formworks	3	12-Aug-2025	14-Aug-2025								
	PILE CAP CHE-4 (TOP LEVEL +6.0mPD)											
	B3_Z5_7580 Pile Cap CHE-4 - Trim Bored Pile BP25&02 to cut-off level (formation level at +3.4mPD)	6	30-Jul-2025	05-Aug-2025								
	B3_Z5_7590 Pile Cap CHE-4 - Install earthing	2	06-Aug-2025	07-Aug-2025								
	B3_Z5_7600 Pile Cap CHE-4 - Blinding and setting out	2	08-Aug-2025	09-Aug-2025								
	B3_Z5_7610 Pile Cap CHE-4 - Rebar fixing	5	11-Aug-2025	15-Aug-2025								
	B3_Z5_7620 Pile Cap CHE-4 - Formworks installation	4	16-Aug-2025	20-Aug-2025								
	B3_Z5_7630 Pile Cap CHE-4 - Concreting and dismantle formworks	3	21-Aug-2025	23-Aug-2025								
	PILE CAP CHH-3 (TOP LEVEL +6.0mPD)											
	B3_Z5_7640 Pile Cap CHH-3 - Trim Bored Pile BP26&27 to cut-off level (formation level at +3.4mPD)	6	06-Aug-2025	12-Aug-2025								
	B3_Z5_7650 Pile Cap CHH-3 - Install earthing	1	13-Aug-2025	13-Aug-2025								
	B3_Z5_7660 Pile Cap CHH-3 - Blinding and setting out	2	14-Aug-2025	15-Aug-2025								
	B3_Z5_7670 Pile Cap CHH-3 - Rebar fixing	5	16-Aug-2025	21-Aug-2025								
	B3_Z5_7680 Pile Cap CHH-3 - Formworks installation	4	22-Aug-2025	26-Aug-2025								
	B3_Z5_7690 Pile Cap CHH-3 - Concreting and dismantle formworks	3	27-Aug-2025	29-Aug-2025								
	TIE BEAM											
	TIE BEAMS (GL13-H TO 13-HH/GL13-1 TO 13-3) (TOP LEVEL +6mPD)											
	B3_Z5_7870 Tie Beam - Backfilling to formation level (GL13-H to 13-HH/GL13-1 to 13-3)	4	24-Oct-2025	28-Oct-2025								
	B3_Z5_7880 Tie Beam - Blinding and setting out (GL13-H to 13-HH/GL13-1 to 13-3)	5	30-Oct-2025	04-Nov-2025								
	B3_Z5_7890 Tie Beam - Rebar fixing (GL13-H to 13-HH/GL13-1 to 13-3)	6	05-Nov-2025	11-Nov-2025								
	B3_Z5_7900 Tie Beam - Formworks installation (GL13-H to 13-HH/GL13-1 to 13-3)	6	12-Nov-2025	18-Nov-2025								
	B3_Z5_7910 Tie Beam - Concreting and dismantle formwork (GL13-H to 13-HH/GL13-1 to 13-3)	5	19-Nov-2025	24-Nov-2025								
	TIE BEAMS (GL13-H TO 13-HH/GL13-3 TO 13-4) (TOP LEVEL +6mPD)											
	B3_Z5_7920 Tie Beam - Backfilling to formation level (GL13-H to 13-HH/GL13-3 to 13-4)	4	24-Oct-2025	28-Oct-2025								
	B3_Z5_7930 Tie Beam - Blinding and setting out (GL13-H to 13-HH/GL13-3 to 13-4)	5	30-Oct-2025	04-Nov-2025								
	B3_Z5_7940 Tie Beam - Rebar fixing (GL13-H to 13-HH/GL13-3 to 13-4)	6	05-Nov-2025	11-Nov-2025								
	B3_Z5_7950 Tie Beam - Formworks installation (GL13-H to 13-HH/GL13-3 to 13-4)	6	12-Nov-2025	18-Nov-2025								
	B3_Z5_7960 Tie Beam - Concreting and dismantle formwork (GL13-H to 13-HH/GL13-3 to 13-4)	5	19-Nov-2025	24-Nov-2025								
	TIE BEAMS (GL13-H TO 13-HH/GL13-4 TO 13-6) (TOP LEVEL +6mPD)											
	B2_Z5_8010 Tie Beam - Concreting and dismantle formwork (GL13-H to 13-HH/GL13-4 to 13-6)	5	19-Nov-2025	24-Nov-2025								
	B3_Z5_7970 Tie Beam - Backfilling to formation level (GL13-H to 13-HH/GL13-4 to 13-6)	4	24-Oct-2025	28-Oct-2025								
	B3_Z5_7980 Tie Beam - Blinding and setting out (GL13-H to 13-HH/GL13-4 to 13-6)	5	30-Oct-2025	04-Nov-2025								
	B3_Z5_7990 Tie Beam - Rebar fixing (GL13-H to 13-HH/GL13-4 to 13-6)	6	05-Nov-2025	11-Nov-2025								
	B3_Z5_8000 Tie Beam - Formworks installation (GL13-H to 13-HH/GL13-4 to 13-6)	6	12-Nov-2025									

 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

Critical Activities

Remaining Work

◆

◆ Milestone

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

Date	Revision	Checked	Approved



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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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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

Activity ID		Activity Name	Original Duration	Start	Finish	2025				2026				2027				2028				2029				2030				2031				2032						
						J	J	A	J	J	S		J			J	J	A		J		A	J	J	S		J			J	J	A		J			J		J	J
		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																																		
REPLACEMENT OF EXISTING METAL ROOF SYSTEM																																								
		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																																		
BILL NO. 18A - A&A WORKS AT DG STORE																																								
		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 louver 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 Store "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																																		



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Project Programme of Works

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Activity ID	Activity Name	Original Duration	Start	Finish	2025												2026				2027				2028				2029				2030				2031				2032																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

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

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Appendix K

Monthly Waste Flow Table

Total C&D waste generated	12070.57 tonnes	a1=b+c+d+e+f+g+h+i+j+k+l+m
Total C&D waste generated (excluded excavated materials)	1797.77 tonne	a2=c+d+e+f+g+h+i+j+k+l+m
Total recycled C&D waste	1902.38 tonne	a3=c+d+e+h+i+j+k
% of recycled C&D waste	96.09 %	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.