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



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

December 2023



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 L12 Monthly EM&A Report (December 2023)
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EXECUTIVE SUMMARY

This is the 164th 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 December 2023.

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 gasfired generating unit (Unit L11) to implement the 2020 Fuel Mix Target. L11 was commissioned for reliable operation effective in May 2022. The operational EM&A work for L9, L10 and L11 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 fourth combined cycle gas-fired generating unit (L12) in July 2018, the associated construction work commenced in April 2019. When L12 is commissioned in 2023, the total gas-fired electricity generation will further rise to reach about 70% of our total output. Gas-in for L12 were carried out in August 2023 to facilitate commissioning activities.

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 L12 Civil and Building Works	Defect rectification and external works of Main Station Building, screeding works on roof of No.5 chimney, defect rectification of L12 GRS Equipment Room and pipe piling, defect rectification works and cable trench works for ACB, paving for cable bridge for Cable Bridge (North & South), construction of superstructure for shunt reactor compound extension and drainage works and external works for No. 5 C.W. Intake.
Unit L12 Mechanical Erection	Testing and commissioning
Unit L12 Electrical, Instrumentation & Control Erection	Testing and commissioning

Environmental Monitoring Works

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

Air Quality

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

Noise

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

Site Environmental Audit

Independent Environmental Checker (IEC) conducted a site inspection on 19/12/2023. The site conditions were generally satisfactory.

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

Environmental Licensing and Permitting

Description Permit No. Valid Per		Period	Issued To	Date of	
_		From	To]	Issuance
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
Construction Noise Permit	GW-RS0559-23	07/07/23	06/01/24	Contractor	05/07/23
Construction Noise Permit	GW-RS0621-23	28/07/23	27/01/24	Contractor	25/07/23
Construction Noise Permit	GW-RS0707-23	01/09/23	28/02/24	Contractor	22/08/23
WPCO Discharge Licence	WT00037613-2021	15/04/21	30/04/26	Contractor	15/04/21
WPCO Discharge Licence	WT00037665-2021	06/05/21	31/05/26	Contractor	06/05/21
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Contractor	22/02/16
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	Contractor	17/03/05
Waste Disposal Billing Account	Account No.: 7038672	27/10/20	-	Contractor	27/10/20
Waste Disposal Billing Account	Account No.: 7039272	08/01/21	-	Contractor	08/01/21
Waste Disposal Billing Account	Account No.: 7041942	21/10/21	-	Contractor	21/10/21

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 L12 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 pit and tanks before discharge and to ensure compliance with the WPCO discharge licence already obtained;

Unit L12 Mechanical Erection

- to continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained;
- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

Unit L12 Electrical, Instrumentation & Control Erection

- to continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained;
- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

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 December 2023.

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 L12 civil and building works were, defect rectification and external works of Main Station Building, screeding works on roof of No.5 chimney, defect rectification of L12 GRS Equipment Room and pipe piling, defect rectification, cable trench works for ACB, and paving cable bridge for Cable Bridge (North & South), construction of superstructure for shunt reactor compound extension, drainage works and external works for No. 5 C.W. Intake. Construction activities for Unit L12 mechanical erection was testing and

commissioning. Construction activity for Unit L12 electrical, instrumentation & control erection was testing and commissioning. 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 L12	2 Civil and Building	Works	
1.	Defect rectification and external works of Main Station Building Screeding works on roof of No.5 chimney	Air - All regulated machine attached with valid exception/approval NRMM labels. - Water truck and water sprinkler system would be used. - Water spraying for concrete breaking works. - Soil stock would be covered with cement or tarpaulin or keep the entire surface wet. Wheel washing facility was provided.	
	Defect rectification of L12 GRS Equipment room Pipe piling ACB Defect rectification works Cable trench works	Noise - Works conducted during restricted hours should comply with the valid CNP. - Noise emission label was provided for air compressor. Wastewater - Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. The frequency would be in weekly basis depends on the volume of sediment accumulated in order to maintain sufficient volume for wastewater treatment.	
		 Waste Management Excavated soil was temporary stored for backfilling and reuse in other projects. Scrape metal would be recycled. Chemical waste should be collected by licensed collector. 	
2.	Cable Bridge (North & South): Paving for Cable	Air - All regulated machine attached with valid exception/approval NRMM labels.	

Item	Construction Activities	Environmental Mitigation Measures	
	Shunt Reactor Compound Extension Construction of superstructure	 Water truck, water sprinkler system and mist cannon were used. Excavated soil slop covered with tarpaulin. Wheel washing facilities was provided. Water spraying on haul road and during concrete breaking. 	
	No. 5 C.W. Intake Drainage works and external works	 Noise emission label was provided for air compressor. Works conducted during restricted hours should comply with the valid CNP. 	
		Waste Management	
		 Excavated soil would be transferred to other projects for reuse. Scrape metal will be recycled. 	
		Wastewater - Wastewater would be treated in desilting tanks or wastewater treatment facility before discharge.	
Unit L12	2 Mechanical Erection	on	
3.	Testing and commissioning	Air - Dust suppression measures implemented according to the EMP.	
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management	
		Waste Management Plan submitted and implemented	
Unit L12	nit L12 Electrical, Instrumentation & Control Erection		
4.	Testing and commissioning	Air - Dust suppression measures implemented according to the EMP.	
		Noise - General noise mitigation measures employed at all work sites throughout the construction phase.	

Item	Construction Activities	Environmental Mitigation Measures	
		Waste Management - Waste Management Plan submitted and implemented.	

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.

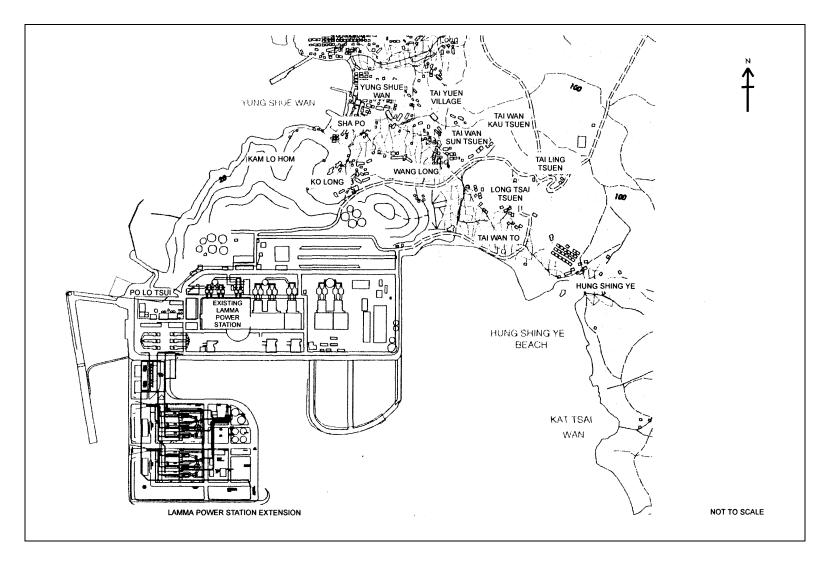


Figure 1.1 Layout of Work Site

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	
24-hour sampling:		
Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific	
MINIVOL Portable Sampler	AIRMETRICS	
1-hour sampling: 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
Alvii	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
Alviz	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
AM3	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:
 - o Frequency of the tapered element;
 - Main flow;
 - o 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.

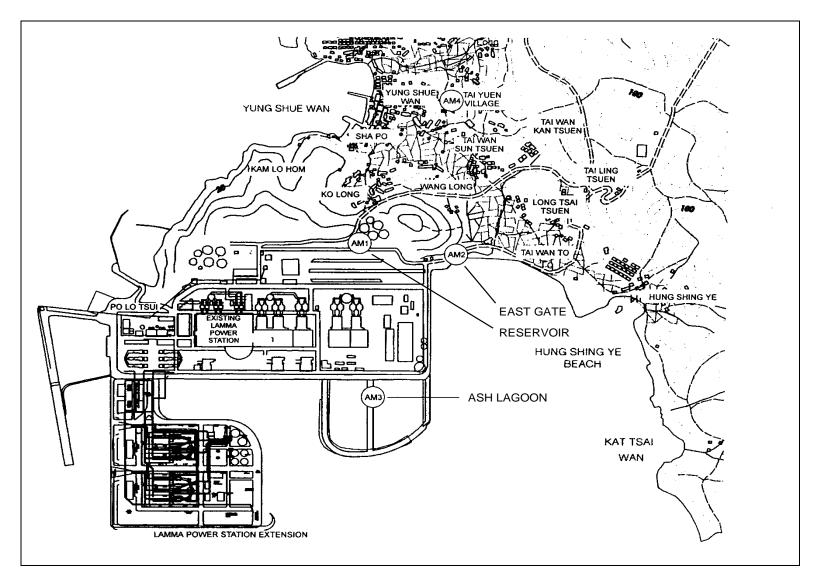


Figure 2.1 Location of Air Quality Monitoring Stations

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	ı

	Day-time: 0700-1900 hrs on normal weekdays	Day-time: 30 minutes	30-min L _{Aeq}
Ash Lagoon Ching Lam	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}
Ching Zum	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 October 2023 and September 2023 respectively. The next calibrations for the two corresponding noise monitoring stations were scheduled in March 2024.

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.

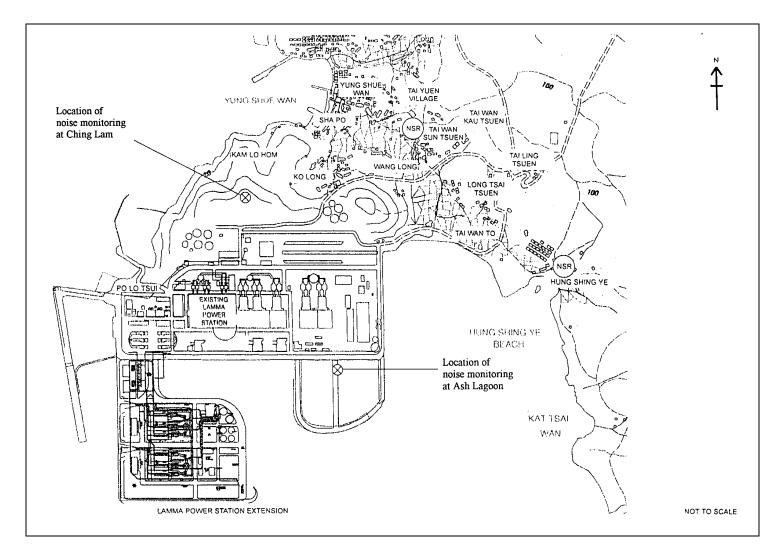


Figure 3.1 Location of Noise Monitoring Stations

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		. of ances In	Event/Action Plan Implementation Status
			Action Level	Limit Level	and Results
Air					
1	Ambient TSP (24-hour)	01/12/2023- 31/12/2023	0	0	
2	Ambient TSP (1-hour)	01/12/2023- 31/12/2023	0	0	
Noise					
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/12/2023- 31/12/2023	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 December 2023 are shown in Table 4.2.

Table 4.2 Estimated Amounts of Waste in December 2023

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

|--|

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

4.4 Site Environmental Audit

Independent Environmental Checker (IEC) conducted a site inspection on 19/12/2023. The site conditions were generally satisfactory.

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

4.5 Status of Environmental Licensing and Permitting

All permits/licenses obtained for the project are summarised in Table 4.3.

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit No.	Valid Period		Highlights	Status
_		From	To		
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid
Construction Noise Permit	GW-RS0559-23	07/07/23	06/01/24	Construction site of Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0621-23	28/07/23	27/01/24	Civil and Building Works for Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0707-23	01/09/23	28/02/24	Power Block Facilities works for Unit L12. Operation of PME during restricted hours	Valid
WPCO Discharge Licence#	WT00037613- 2021	15/04/21	30/04/26	Civil and Building Works for No.5 C.W. Intake and Cable Bridge	Valid
WPCO Discharge Licence##	WT00037665- 2021	06/05/21	31/05/26	Civil and Building Works for Unit L12	Valid
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Civil and Building Works	Valid

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Description	Permit No.	Valid	Period	Highlights	Status
		From	To		
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	E&M Equipment Installation and Maintenance	Valid
Waste Disposal Billing Account	Account No.: 7038672	27/10/20	-	Civil works for Unit L12 No.5 C.W. intake and cable bridge	Valid
Waste Disposal Billing Account	Account No.: 7039272	08/01/21	-	Civil and building works for Unit L12	Valid
Waste Disposal Billing Account	Account No.: 7041942	21/10/21	-	E&M Erection of Power Block Facilities – L12	Valid

Notes: # and ## - Water quality monitoring was carried out in November 2023 and the results of which would be reported separately by the contractor.

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 December 2023, no complaint in relation to the environmental impact of the construction activities was received.

Table 4.4 Environmental Complaints Received in December 2023

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:

<u>Unit L12 Civil and Building Works</u>

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 pit and tanks before discharge and to ensure compliance in accordance with the WPCO discharge licence already obtained.

Unit L12 Mechanical Erection

Noise Impact

- To continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained.
- To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

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

Unit L12 Electrical, Instrumentation & Control Erection

Noise Impact

- To continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained.
- To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

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

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.

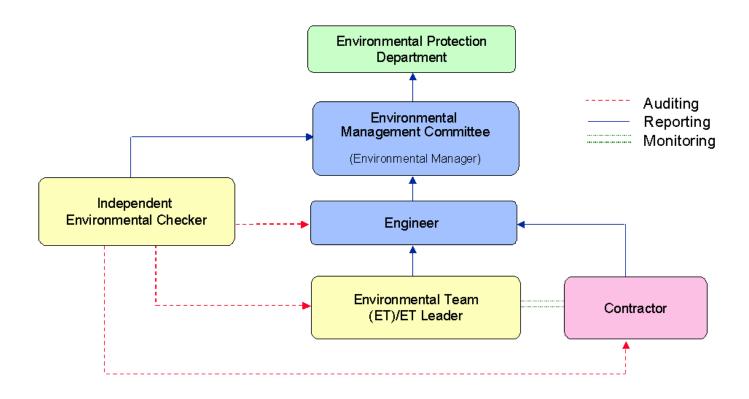


Figure A.1 Organisation of EM&A Programme at Construction Phase

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, μg/m ³	Limit Level, μg/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 Manual noise monitoring at the nearest Pak Kok Tsui residences to cable landing points N4 and N5	When one or more documented complaints are received	 a. 75 dB(A) in L_{Aeq,30 min} (07:00-19:00 hrs on normal weekdays) (Note 1) 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 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 min}
NI.4.		

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 (December 2023 to March 2024)

24hr TSP Monitoring	1hr TSP Monitoring
4/December/2023	4/December/2023 1500hr to 1800hr
10/December/2023	10/December/2023 1500hr to 1800hr
16/December/2023	16/December/2023 1500hr to 1800hr
22/December/2023	22/December/2023 1500hr to 1800hr
28/December/2023	28/December/2023 1500hr to 1800hr
3/January/2024	3/January/2024 1500hr to 1800hr
9/January/2024	9/January/2024 1500hr to 1800hr
15/January/2024	15/January/2024 1500hr to 1800hr
21/January/2024	21/January/2024 1500hr to 1800hr
27/January/2024	27/January/2024 1500hr to 1800hr
2/February/2024	2/February/2024 1500hr to 1800hr
8/February/2024	8/February/2024 1500hr to 1800hr
14/February/2024	14/February/2024 1500hr to 1800hr
20/February/2024	20/February/2024 1500hr to 1800hr
26/February/2024	26/February/2024 1500hr to 1800hr
3/March/2024	3/March/2024 1500hr to 1800hr
9/March/2024	9/March/2024 1500hr to 1800hr
15/March/2024	15/March/2024 1500hr to 1800hr
21/March/2024	21/March/2024 1500hr to 1800hr
27/March/2024	27/March/2024 1500hr to 1800hr

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: December 2023

24 hour TSP Measurement:-

		TSP concentr	ation (µg/m³)	Weather Information (From Hong Kong Observatory)			
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir.	Mean R.H.
4/12/2023	59	67	37	50	10.9	80	76
10/12/2023	28	29	18	24	14.2	50	80
16/12/2023	47	185	38	32	32.7	360	71
22/12/2023	67	107	42	53	33.0	360	51
28/12/2023	43	85	28	33	21.8	50	73

1 hour TSP Measurement:-

		TSP concentration (µg/m³)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
	15:00 - 15:59	61	63	35		
4/12/2023	16:00 - 16:59	63	57	39		
	17:00 - 17:59	53	52	40		
	15:00 - 15:59	39	49	25		
10/12/2023	16:00 - 16:59	39	42	24		
	17:00 - 17:59	36	41	25		
	15:00 - 15:59	48	134	45		
16/12/2023	16:00 - 16:59	46	112	38		
	17:00 - 17:59	40	94	32		
	15:00 - 15:59	57	112	45		
22/12/2023	16:00 - 16:59	58	110	46		
	17:00 - 17:59	63	109	46		
28/12/2023	15:00 - 15:59	56	110	37		
	16:00 - 16:59	46	121	40		
	17:00 - 17:59	57	109	35		

1-hr TSP 24-hr TSP $(\mu g/m^3)$ $(\mu g/m^3)$ 340 190

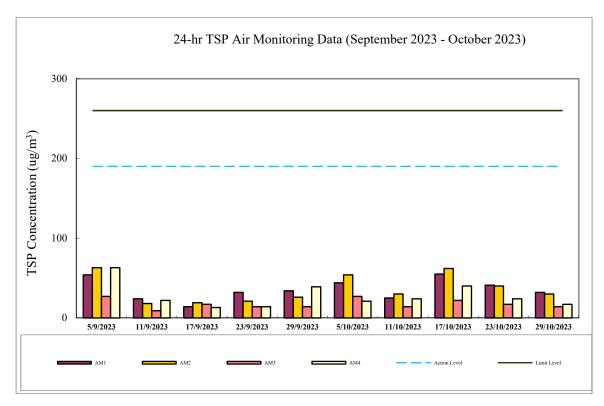
Limit Level 500 260 Calibration: Calibration details are shown in appendix F.

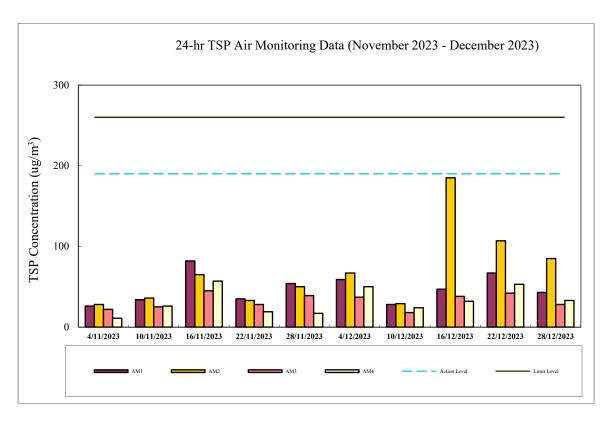
Equipment used:

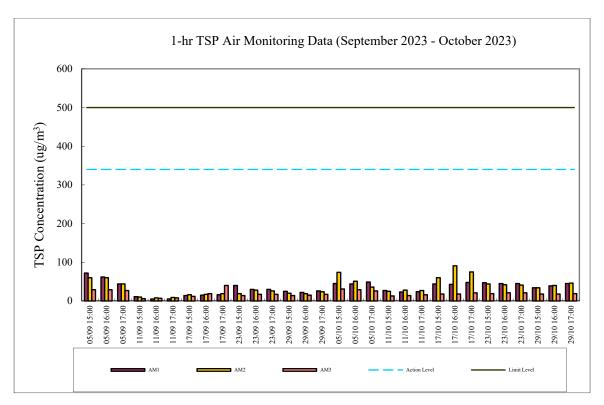
Action Level

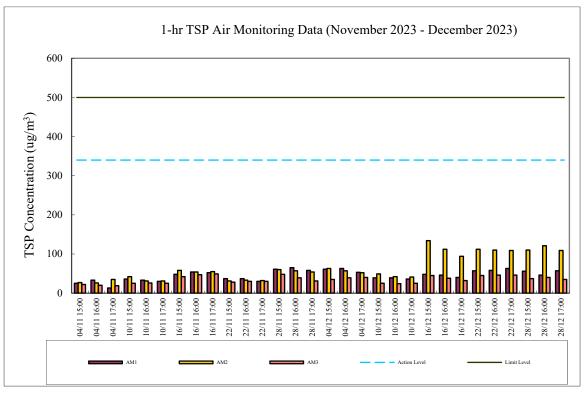
Location 1-hr TSP 24-hr TSP	

Reservoir, East Gate and Ash Lagoon	TEOM	TEOM
Tai Yuen Village	-	MINIVOL Portable Sampler









Appendix E Continuous Noise Monitoring Results for December 2023

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 - 15/8/2023 (Ash Lagoon)

15/8/2023 (Ching Lam)

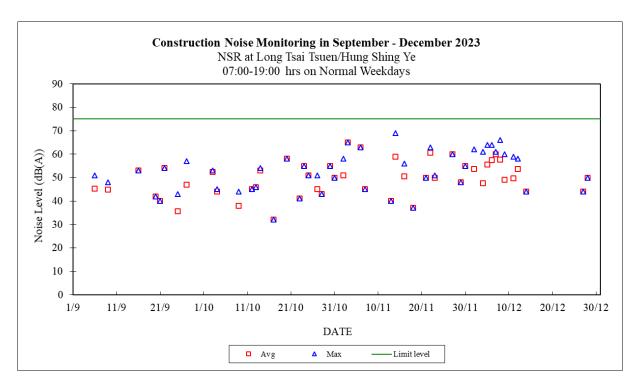
B&K 4231 calibrator (15/8/2023)

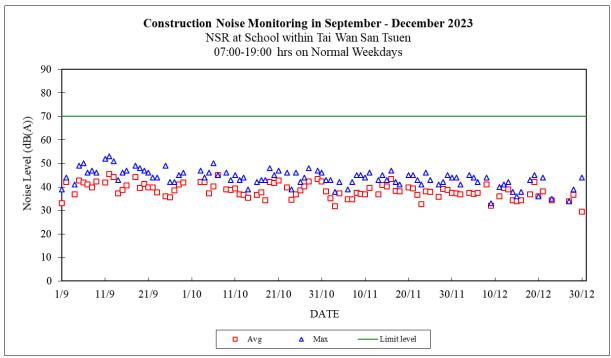
Shing Ye (dB(A))	Limit Noise Level (dB(A))
01/12/2023 07:00-19:00 75 44 37 01/12/2023 19:00-23:00 60 45 41 01/12/2023 23:00-07:00 35 33 45 41 35 02/12/2023 19:00-23:00 33 32 60 46 41 02/12/2023 23:00-07:00 45 45 45 45 40 03/12/2023 07:00-23:00 57 38 60 44 37 03/12/2023 07:00-23:00 57 38 60 44 37 03/12/2023 07:00-19:00 61 48 75 45 38 04/12/2023 19:00-23:00 36 36 60 42 36 04/12/2023 19:00-23:00 36 36 60 42 36 04/12/2023 19:00-23:00 39 39 60 50 40 05/12/2023 19:00-23:00 39 39 <td>(32 (11))</td>	(32 (11))
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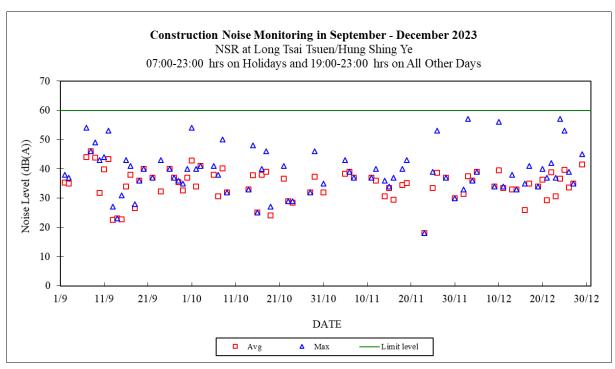
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15/12/2023	07:00-19:00			75	36	34	70
15/12/2023	19:00-23:00			60	41	37	60
15/12/2023	23:00-07:00	24	24	45	44	35	45
16/12/2023	07:00-19:00			75	38	34	70
16/12/2023	19:00-23:00	35	26	60	46	38	60
16/12/2023	23:00-07:00	35	29	45	44	33	45
17/12/2023	07:00-23:00	41	35	60	45	40	60
17/12/2023	23:00-07:00	45	42	45	44	37	45
18/12/2023	07:00-19:00			75	43	37	70
18/12/2023	19:00-23:00			60	45	38	60
18/12/2023	23:00-07:00	44	36	45	45	37	45
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20/12/2023	19:00-23:00	40	36	60	39	32	60
20/12/2023	23:00-07:00	44	33	45	44	33	45
21/12/2023	07:00-19:00			75	44	38	70
21/12/2023	19:00-23:00	37	29	60	41	33	60
21/12/2023	23:00-07:00	44	35	45	45	32	45
22/12/2023	07:00-19:00			75			70
22/12/2023	19:00-23:00	42	39	60	34	34	60
22/12/2023	23:00-07:00	36	32	45	40	34	45
23/12/2023	07:00-19:00			75	35	34	70
23/12/2023	19:00-23:00	37	31	60	44	35	60
23/12/2023	23:00-07:00	37	30	45	40	31	45
24/12/2023	07:00-23:00	57	37	60	38	30	60
24/12/2023	23:00-07:00	34	33	45	39	33	45
25/12/2023	07:00-23:00	53	40	60	49	43	60
25/12/2023	23:00-07:00	37	31	45	44	38	45
26/12/2023	07:00-23:00	39	34	60	38	34	60
26/12/2023	23:00-07:00	44	43	45	44	34	45
27/12/2023	07:00-19:00	44	44	75	34	34	70
27/12/2023	19:00-23:00	35	35	60	34	29	60
27/12/2023	23:00-07:00	24	17	45	39	27	45
28/12/2023	07:00-19:00	50	50	75	39	37	70
28/12/2023	19:00-23:00	-		60	40	37	60
28/12/2023	23:00-07:00	15	15	45	34	17	45
29/12/2023	07:00-19:00			75			70
29/12/2023	19:00-23:00	45	42	60	51	41	60
29/12/2023	23:00-07:00	33	27	45	44	39	45
30/12/2023	07:00-19:00			75	44	29	70
30/12/2023	19:00-23:00			60	50	38	60
30/12/2023	23:00-07:00	32	26	45	41	34	45
31/12/2023	07:00-23:00			60	50	32	60
31/12/2023	23:00-07:00	39	33	45	45	33	45

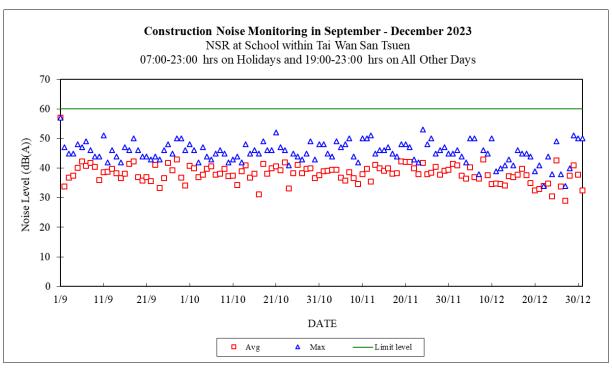
Note:

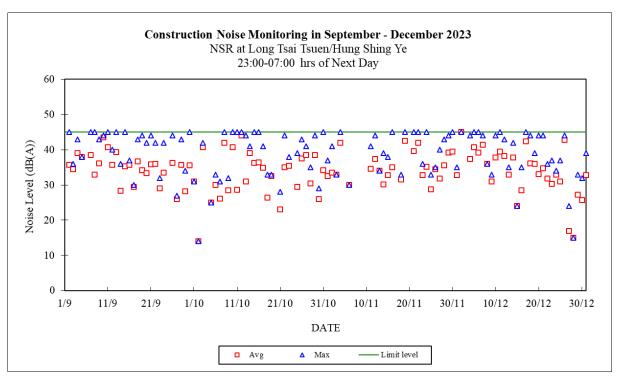
- a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.
- b. Continuous noise monitoring was also carried out at holidays & eveningtime (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time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

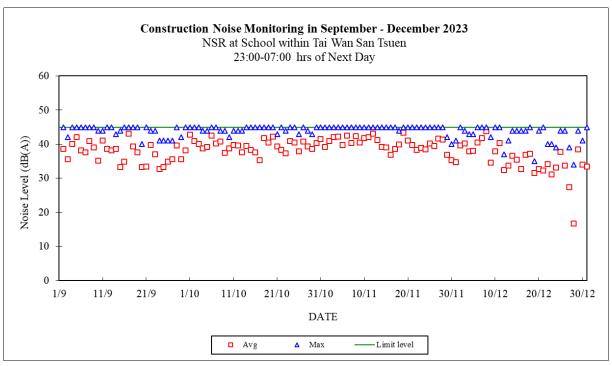












Appendix F

The QA/QC Procedures and Results

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

Month: December Year: 2023

Reservoir (AM1)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)	
4/12/2023	269.271	4	2.91	10.31	
10/12/2023	269.472	4	2.89	10.31	
16/12/2023	269.056	4	2.95	10.31	
22/12/2023	268.413	4	3.06	10.31	
28/12/2023	267.697	4	2.94	10.31	

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)	
4/12/2023	265.783	4	3.00	13.66	
10/12/2023	264.992	4	3.00	13.66	
16/12/2023	267.308	4	2.98	13.64	
22/12/2023	265.819	4	2.98	13.64	
28/12/2023	267.581	4	2.98	13.64	

	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)		
4/12/2023	254.900	4	1.84	13.68		
10/12/2023	254.526	4	1.75	13.35		
16/12/2023	257.393	4	2.44	13.05		
22/12/2023	256.992	4	1.92	12.99		
28/12/2023	256.557	4	1.90	13.52		

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)
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Date/Time	Staff Name	
27/12/2023 / 11:00	Eric Ku	

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used Filter Paper No.	MS98
New Filter Paper No.	MS99

Type of Filter: Glass-fibre

L.	Calibration is perfo 5 std. L/min set poi		ycal DC-2 Flow Calibrat ed	or
	Before: After:			5.03 5.03 (No Adjustment)
II.	General Services			
	 Clean Rotamete Clean / Replace Clean / Replace Clean Impaction Replace Timer Replace Inlet F 	e Pump Valves: e Pump Diaphrag n Inlet: Battery Every 6 n		Yes No No Yes No Yes
III.	Remarks			
Cond	ducted by:	Eric Ku	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	Calibration Results	Deviation from
		Reference (dB)		Reference (dB)
01/12/2023	Passed	-0.05	Passed	-0.11
02/12/2023	Passed	-0.07	Passed	-0.11
03/12/2023	Passed	-0.07	Passed	- 0.09
04/12/2023	Passed	-0.08	Passed	-0.10
05/12/2023	Passed	-0.07	Passed	- 0.09
06/12/2023	Passed	-0.05	Passed	- 0.09
07/12/2023	Passed	-0.07	Passed	- 0.09
08/12/2023	Passed	-0.07	Passed	- 0.06
09/12/2023	Passed	-0.06	Passed	- 0.09
10/12/2023	Passed	-0.04	Passed	-0.06
11/12/2023	Passed	-0.06	Passed	-0.09
12/12/2023	Passed	-0.05	Passed	-0.07
13/12/2023	Passed	-0.07	Passed	-0.08
14/12/2023	Passed	-0.03	Passed	-0.08
15/12/2023	Passed	-0.04	Passed	-0.07
16/12/2023	Passed	-0.09	Passed	-0.15
17/12/2023	Passed	-0.11	Passed	- 0.16
18/12/2023	Passed	-0.09	Passed	- 0.12
19/12/2023	Passed	-0.10	Passed	-0.14
20/12/2023	Passed	-0.12	Passed	- 0.13
21/12/2023	Passed	-0.10	Passed	- 0.16
22/12/2023	Passed	-0.14	Passed	- 0.13
23/12/2023	Passed	-0.12	Passed	- 0.11
24/12/2023	Passed	-0.07	Passed	-0.02
25/12/2023	Passed	-0.10	Passed	-0.12
26/12/2023	Passed	-0.09	Passed	-0.07
27/12/2023	Passed	-0.07	Passed	-0.11
28/12/2023	Passed	-0.07	Passed	-0.05
29/12/2023	Passed	-0.09	Passed	-0.10
30/12/2023	Passed	-0.06	Passed	-0.10
31/12/2023	Passed	-0.05	Passed	-0.08

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 \pm 0.5 dB.

Appendix G Event/Action Plans

Table G.1 Event and Action Plans for Air Quality

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

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	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.
	Contractor, Engineer and IEC, and inform according the EPD of the exceedance, as soon as practicable		Discuss with Contractor the remedial actions to be implemented.	Amend proposals if required by the Engineer.
		Verify the implementation of the remedial measures	If the exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop the portion of work upon instruction from the exceedance what portion of the and, as instructed by the exceedance of the exceedance	Implement remedial actions immediately
	Discuss remedial actions required with Engineer.			upon instruction from the Engineer.
	Increase manual monitoring frequency to assess efficacy of remedial measures.			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;		implemented mitigation measures.	within 3 working days and discuss with Engineer;	
	Discuss mitigation measure with Engineer and Contractor;			Implement the agreed mitigation measures.	
	Ensure mitigation measures are implemented;				
	Increase the monitoring frequency to daily until no exceedance of Limit level.				
Limit level exceeded by more than one	Repeat in-situ measurement to confirm findings; Identify source(s) of impact;	Proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor on the proposed mitigation measures; Request Contractor to critically	Inform the Engineer and confirm notification of the non-compliance in writing;	
consecutive sampling day	Inform Contractor, IEC and EPD;		review the working methods;	Rectify unacceptable practice;	
ampning day	Check monitoring data, all plant, equipment and Contractor's		Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the	Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with Engineer;	
	working methods;				
	Discuss mitigation measure with Engineer and Contractor;		implemented mitigation measures; Consider and instruct, if necessary,		
	Ensure mitigation measures are implemented;		the Contractor to slow down or to stop all or part of the marine works until no exceedance of the Limit Level.	Implement the agreed mitigation measures	
	Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.			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

L12 Civil and Building Works
<u>Dates of Inspection</u> : 5/12/2023, 12/12/2023, 19/12/2023 and 29/12/2023.
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.

L12 Mechanical, Electrical, Instrumentation & Control Erection Works Dates of Inspection: 7/12/2023, 14/12/2023, 19/12/2023 and 28/12/2023 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.	С
	the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	С
	the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	С
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	N/A
	The materials which may generate airborne dust emissions shall be wetted by water spray system.	N/A
	All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	N/A
	All conveyor transfer points shall be totally enclosed.	N/A
	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
В3	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
В6	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: **	N/A
	 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. 	

EM&A Log Ref.	Mitigation Measures	Implementation Status
В7	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;	N/A
	the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	barges shall be loaded carefully to avoid splashing of material;	N/A
	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;	N/A
	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;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	"rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	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
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.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
С3	Mitigate against night time noise from dredging equipment, with silencers or mufflers. **	N/A
D.1	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.	С
	Break the mass of main buildings by varying the height/division into smaller units.	С
	Plant trees and vegetation for screening.	С
	Adopt colour scheme to blend the buildings into the scenery.	С

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.	С
	Dredging Waste	
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
	Storage, Collection and Transport of Waste	
E3	Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.	С
	• 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.	С
	Disposal of waste at Licensed sites;	С
	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;	С
	 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 plants) for landfill disposal. 	С
	 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.	С
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	С
		
	LAND CONTAMINATION	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	MARINE ECOLOGY	
	<u> </u>	<u> </u>

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

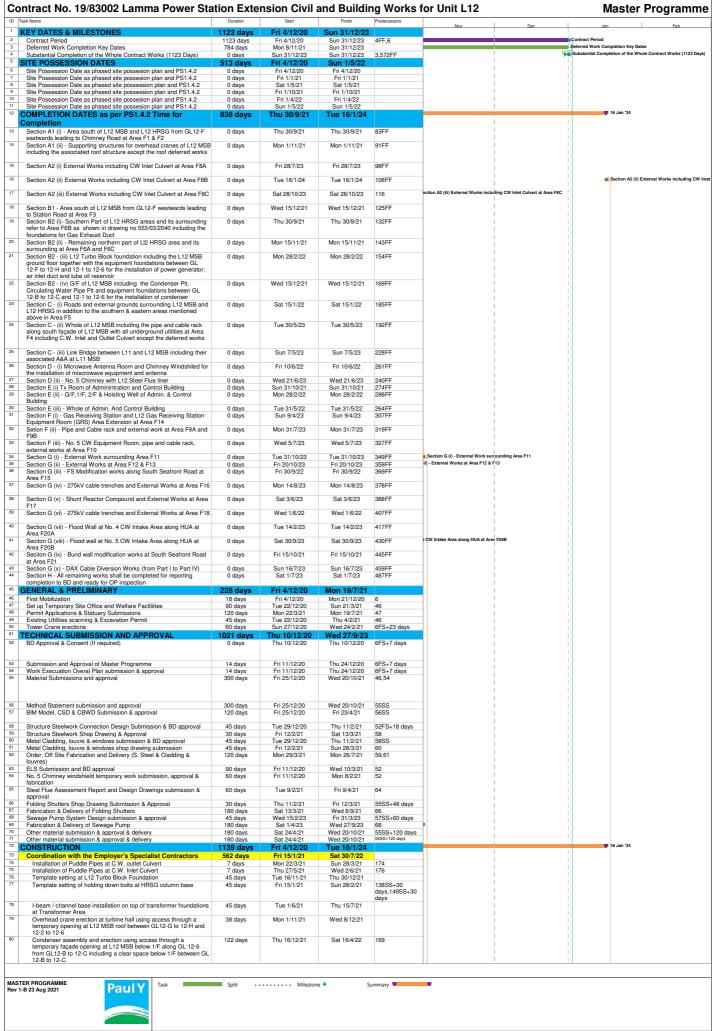
Remarks:

No dredging and reclamation work would be involved for L12 construction Compliance with mitigation measure Non-compliance with mitigation measure **

C

NC

Not Applicable N/A



	ntract No. 19/83002 Lamma Power Sta	Duration	Start	Finish	Predecessors	Nov	Dan	1 .	an I roo
	Installation of power train equipment including air inlet duct using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-F to 12-H including a clear space below	121 days	Fri 1/4/22	Sat 30/7/22	192	INDV	DEC		ı Fel
	1/F of the above area Installation of embedded materials such as holding down bolts for	0 days	Thu 15/4/21	Thu 15/4/21	158	I I		1	
	equipment foundations - Commencement Section A1 (i) - Area south of L12 MSB and L12 HRSG from	301 days	Fri 4/12/20	Thu 30/9/21		1 1		1	
	GL12-F eastwards leading to Chimney Road at Area F1 & F2					1			
	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6	1			
	Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	60 days	Sun 17/1/21	Wed 17/3/21	84FS+14 days	I I			
	Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe	14 days 70 days	Tue 1/6/21 Tue 15/6/21	Mon 14/6/21 Mon 23/8/21	135 86				
	Backfill Construction UG Utilities 2m deep below further surface	7 days 28 days	Tue 24/8/21 Tue 31/8/21	Mon 30/8/21 Mon 27/9/21	87 88	i		i	
	Temporary Paving and handover for plant erection Section A1 (ii) - Supporting structures for overhead cranes	3 days 333 days	Tue 28/9/21 Fri 4/12/20	Thu 30/9/21 Mon 1/11/21	89	1			
	of L12 MSB including the associated roof structure except the roof deferred workss					1			
	Area Possession & Clearance Subletting / Fabrication / Delivery	45 days 210 days	Fri 4/12/20 Tue 23/2/21	Sun 17/1/21 Mon 20/9/21	6 84FS+14 days	I I		1	
	Complete structural steel erection Install Crane Girders	0 days 11 days	Tue 19/10/21 Tue 12/10/21	Tue 19/10/21 Fri 29/10/21	94	I I			
	Construction of roof slab (except defer work) Touch up and handover for install overhead cranes	14 days 3 days	Tue 19/10/21 Sat 30/10/21	Mon 1/11/21 Mon 1/11/21	96FF	I I			
	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	967 days	Fri 4/12/20	Fri 28/7/23		I I			
L	BD consent for Sheetpile installation	30 days	Fri 4/12/20	Sat 2/1/21	52SS-7 days 99SS+14 days	1			
ŀ	Subletting / Fabrication / Delivery (both for Area F8A-F8B) Area Possession & Clearance	30 days 14 days	Fri 18/12/20 Sat 2/1/21	Sat 16/1/21 Fri 15/1/21	7	i		il .	
	Install Sheet pile	55 days	Sat 16/1/21	Thu 11/3/21	101				
İ	Installation of Additional sheet Pile at South of area F8A	7 days	Sat 17/4/21	Fri 23/4/21	102FS+60 days	1			
Ė	BD Consent for ELS ELS and install CW Inlet Pipe (NW to N direction) (Assume flexible	28 days 100 days	Sat 24/4/21 Fri 16/7/21	Fri 21/5/21 Sat 23/10/21	103 104	1			
L	ELS and install CW fliet Pipe (NW to N direction) (Assume flexible joint deliver in Sep 2021) Construction of Thrust Box & Manholes,etc	15 days	Thu 16/9/21	Thu 30/9/21	104	1 1			
	Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at	150 days 150 days 1139 days	Wed 1/3/23 Fri 4/12/20	Fri 28/7/23 Tue 16/1/24	106	I		1	■ 16 Jan '24
	Area F8B Area Possession & Clearance	30 days	Mon 1/3/21	Tue 30/3/21	7FS+30 days	1			
ŀ	BD consent for Sheetpile installation Install Sheet pile	30 days 90 days	Fri 4/12/20 Fri 2/4/21	Sat 2/1/21 Wed 30/6/21	99SS 103FS+21				
		44,0			days,102FS+21 days	1			
F	BD Consent for ELS ELS and install CW Inlet Pipe	28 days 100 days	Thu 1/7/21 Thu 29/7/21	Wed 28/7/21 Fri 5/11/21	111 112	1		il	
	Construction of Thrust Box & Manholes,etc	15 days	Wed 1/9/21	Wed 15/9/21	113SS+34 days	i		11	
H	Backfill, UG Utilities and Road Paving Section A2 (iii) External Works including CW Inlet Culvert at	200 days 961 days	Sat 1/7/23 Fri 12/3/21	Tue 16/1/24 Sat 28/10/23	114	3 Oct '23		1	Backfill, UG Utilities and Road Pavi
ŀ	Area F8C Area Possession & Clearance	30 days	Fri 12/3/21	Sat 10/4/21	9	1			
+	Subletting / Fabrication / Delivery (for Area F8C) BD consent for Sheetpile installation	60 days 30 days	Fri 12/3/21 Tue 13/4/21	Mon 10/5/21 Wed 12/5/21	117SS 117	I I		1	
H	Install Sheet pile BD Consent for ELS	62 days 35 days	Thu 13/5/21 Wed 14/7/21	Tue 13/7/21 Tue 17/8/21	119 120	I I			
	ELS and install CW Inlet Pipe (including soil nail installation under 19/83014)	76 days	Wed 18/8/21	Thu 20/1/22	113,121	1		1	
	Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving	30 days 150 days	Fri 21/1/22 Thu 1/6/23	Sat 19/2/22 Sat 28/10/23	122 123	ckfill, UG Utilities and Road Paving			
	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	377 days	Fri 4/12/20	Wed 15/12/21		i		il .	
	Area Possession & Clearance Subletting / Fabrication / Delivery	30 days 120 days	Fri 4/12/20 Fri 25/12/20	Sat 2/1/21 Fri 23/4/21	6 126SS+21 days	i			
H	Complete CW Pipe Installation & Thrust box Backfill	45 days 30 days	Tue 25/5/21 Fri 9/7/21	Thu 8/7/21 Sat 7/8/21	137FS+13 days	i		i	
	Construction of Storm Drain & Manholes Temp Paving and handover for Condenser Move in	67 days 20 days	Mon 20/9/21 Fri 26/11/21	Thu 25/11/21 Wed 15/12/21	130	1			
	Section B2 - (i) Southern part of L12 HRSG area and its surrounding at Area F6B including the foundations for Gas	273 days	Fri 1/1/21	Thu 30/9/21		1			
	Exhaust Duct Area Possession & Clearance	30 days	Fri 1/1/21	Sat 30/1/21	7			1	
	Subletting / Fabrication / Delivery (for F6B Civil and E&M) Construction of Underground pits	120 days 35 days	Sat 2/1/21 Tue 8/6/21	Sat 1/5/21 Mon 12/7/21	133SS 146	1			
	Excavation & Construct Pile Caps & Tie Beams & Piers	86 days	Mon 8/3/21	Thu 19/8/21	135	I I		1	
t	Installation of Pipe Pile for HRSG foundation (VO)	48 days	Thu 25/3/21	Tue 11/5/21	136SS+7 days	1			
+	Overteet's UPOC A Co. Part (see duties	110	F.: 7/F/04	F.: 0/0/04	137	I I			
	Construction HRSG & Gas Duct foundations Construction of HRSG Equipment Room incl. ABWF & BS (except	112 days 64 days	Fri 7/5/21 Tue 4/5/21	Fri 3/9/21 Thu 30/9/21	138	i		il	
ļ	T&C) Construction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21	136SS+51	i			
	Construction underground utilities within PH3G	33 days	WOII 19/7/21	3at 11/9/21	days,137SS+51 days				
Ė	Backfill & Construction on-grade slabs & RC plinths on top Backfill and Temporary paving	14 days 21 days	Fri 30/7/21 Fri 10/9/21	Mon 27/9/21 Thu 30/9/21	140 140FS-2 days	1			
t	Section B2 (ii) - Remaining northern part of LI2 HRSG area and its surrounding at Area F6A and F6C	319 days	Fri 1/1/21	Mon 15/11/21		I I			
ŀ	Area Possessiong and Clearance at Area F6A Subletting / Fabrication / Delivery (for Area F6A and F6C civil)	30 days	Fri 1/1/21 Sat 2/1/21	Sat 30/1/21 Thu 1/4/21	7 133SS	1			
ļ	Construction of Underground pits (HRSG Blowdown sump pit) Excavation & Construct Pile Caps & Tie Beams & Piers	90 days 110 days 139 days	Sat 2/1/21 Sat 2/1/21 Mon 1/2/21	Wed 21/4/21 Sat 10/7/21	144SS 146	1			
ļ	Construction of Underground utilities within HRSG Construction of Underground pits (GT Oil & Chemical drain pits)	55 days 15 days	Mon 19/7/21 Thu 5/8/21	Sat 11/9/21 Thu 19/8/21	147 138,148	1			
ļ	Backfill & Construction on-grade slabs & RC plinths on top Construct RC Walls	45 days 90 days	Sun 12/9/21 Thu 22/4/21	Tue 26/10/21 Tue 20/7/21	148	i		il .	
	Construction of Underground utilities at F6C Backfill and Temporary paving	21 days 7 days	Tue 19/10/21 Tue 9/11/21	Mon 8/11/21 Mon 15/11/21	151 152				
	Section B2 - (iii) L12 Turbo Block foundation including the	452 days	Fri 4/12/20	Mon 28/2/22	132	1		ì	
	L12 MSB ground floor together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil					1			
ļ	reservoir	AE deci	E-14/40/00	Company of the Company	6	1			
L	Area Possession & Clearance	45 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21	6 155SS+21 days	1			
ļ	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12) Complete excavation at Type A&C Construction Area Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	150 days 0 days 75 days	Sun 21/3/21 Sun 31/1/21	Sun 23/5/21 Sun 21/3/21 Thu 15/4/21	172 157	1		1	
1	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North) Backfill and construction turbine block & equipment foundation	75 days 85 days	Sun 31/1/21 Tue 1/6/21	Tue 24/8/21	160				
ļ	Backfill and construction turbine block & equipment foundation Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South) Construction of internal drainage & on-grade slab	45 days 90 days	Sat 17/4/21 Wed 1/9/21	Mon 31/5/21 Mon 29/11/21	158FS+1 day 159,160	1			
t	Construction or internal oralinage & on-grade slab Construction turbine block columns and upper portion for plant embed installation	83 days	Wed 25/8/21	Mon 15/11/21	159,160	i		H	
	embed installation Concrete Turbine upper part foundation Construction of Lube Oil Room	15 days 60 days	Fri 31/12/21 Tue 30/11/21	Fri 14/1/22 Fri 28/1/22	162 161	1			
	Construction of Lube Oil Room Concrete RC walls	115 days	Tue 7/9/21	Thu 30/12/21	162SS	1		1	
t	ABFW Works	60 days	Thu 4/11/21	Sun 2/1/22	165FS-57 days	I I			
7	Building Services Works Remove temporary falsework and scaffolding for installation of	45 days 13 days	Sat 15/1/22 Mon 7/2/22	Mon 28/2/22 Sat 19/2/22	166SS+15 days 163	1			
		. J uays	11111111111111	JUL 10/2/22		in the second		1	

sk Name	Duration	Start	Finish	Predecessors
Section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations	377 days	Fri 4/12/20	Wed 15/12/21	
of condenser	45 days	Fri 4/12/20	Sun 17/1/21	6
Subletting / Fabrication / Delivery (for MSB L12 civil) Excavation to foundation level at ELS SP Type A & C	150 days 80 days	Fri 25/12/20 Fri 1/1/21	Sun 23/5/21 Sun 21/3/21	170SS+21 days 170SS+28 days
Install CW Outlet pipe Construction of CW Outlet Box + lowest tie beam & caps	85 days 40 days	Mon 22/3/21 Mon 22/3/21	Mon 14/6/21 Fri 30/4/21	172 172
Construction of pile caps & tie beams & sump pits up to +2.7mPD	26 days	Sat 1/5/21	Wed 26/5/21	174 175
Construction of pile caps & tie beams at SunShadeCover Area	45 days	Tue 15/6/21	Thu 29/7/21	176
Construction of indoor underground drainage	14 days	Fri 13/8/21	Thu 26/8/21	177SS 178
Backfill & construction on-grade slabs Construction Column casting and RC walls & equipment foundations	60 days 50 days	Sun 1/8/21 Thu 30/9/21	Wed 29/9/21 Thu 18/11/21	177FS+1 day 201
ABFW Works Building Services Works	15 days 20 days	Fri 19/11/21 Fri 26/11/21	Fri 3/12/21 Wed 15/12/21	181
Mis. Works and Ready for condenser move in Section C - (i) Roads and external grounds surrounding L12	25 days 408 days	Wed 17/11/21 Fri 4/12/20	Wed 15/12/21 Sat 15/1/22	181FS-2 days
areas mentioned above in Area F5				
				6 186SS+21 days
Complete substructure & Steel Erection works for MSB	0 days	Tue 17/8/21	Tue 17/8/21	188
Construction of cable trenches	30 days	Fri 17/9/21	Sat 16/10/21	189 190
Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and	908 days	Fri 4/12/20	Tue 30/5/23	
Outlet Culvert except the deferred works Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6
Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21	193SS+21 days
Construction of pile caps & tie beams at Transformer Area	180 days	Sun 31/1/21	Thu 29/7/21	172SS+30 days
Backfill and on-grade slab at transformer Area Construction of Fire Walls at Transformer Area Execution & Construction Plans Deuts Sum at (SP Type P)	45 days	Fri 8/10/21	Mon 29/11/21	195FS-100 days 196
Excavation & Construction Blow Down Sum pit (SP Type B) Preaparation for S.Steelwork Erection Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	7 days	Wed 14/4/21 Sat 5/6/21 Sat 12/6/21	Tue 31/8/21 Fri 11/6/21 Tue 17/8/21	172,158FF 198,158,148 199
Structural Delivery & Erection (Equipment Floors)	33 days	Wed 18/8/21	Sun 19/9/21	200,178 201,128
Joint Tightening and touch up coating	99 days	Sat 3/7/21	Wed 24/11/21	200
External Scaffolding Erection	97 days	Thu 15/7/21	Mon 22/11/21	200
Construction 1/F RC Slab Construction 2/F RC Slab	14 days 7 days	Mon 20/9/21 Mon 27/9/21	Sun 3/10/21 Sun 10/10/21	201 205
Construction 4/F RC Slab	7 days	Thu 7/10/21	Sun 24/10/21	207
Construction 6/F RC Slab	14 days	Wed 1/12/21	Tue 14/12/21	208
Construction Main Roof RC Slab	39 days	Tue 12/10/21	Fri 19/11/21	210
Construction Defer Roof RC Slab (G.L. G-H) Construction of Staircase ST-01 & lift shaft & machine room	16 days 130 days	Sun 28/11/21 Fri 27/8/21	Mon 13/12/21 Mon 3/1/22	212FS+9 days 200
Construction MF RC Slab	14 days	Fri 1/10/21	Thu 14/10/21	214SS+60 days 214
Construction of Staircase ST-02 except defer work	68 days	Mon 11/10/21	Fri 24/12/21	207 212
Erection of Skylight & Roof Features Waterproofing & Flooring at Roof	50 days 34 days	Fri 26/11/21 Thu 30/12/21	Fri 14/1/22 Thu 17/2/22	212 219
ABFW Works	600 days	Fri 8/10/21	Tue 30/5/23	205
Building Services Works Metal Cladding, Windows and Louvres incl. roof feature	550 days 535 days	Tue 16/11/21 Mon 23/8/21	Fri 19/5/23 Wed 8/2/23	221SS+21 days 204SS+21 days
Removal of external scaffolding	460 days 90 days	Wed 1/12/21 Thu 1/9/22	Sun 5/3/23 Wed 14/12/22	223SS+60 days
Cladding, ABWF & BS Works Removal of tempoary works & clearance for plant erection	60 days 30 days	Thu 15/12/22 Sat 14/1/23	Sun 12/2/23 Sun 12/2/23	225 226FF
contractor Section C - (iii) Link Bridge between L11 and L12 MSB	885 days	Fri 4/12/20	Sun 7/5/23	
BD Consent	0 days	Fri 4/12/20	Fri 4/12/20	6
Subletting / Fabrication / Delivery (For BS and ABWF) Clearing Works and plant set-up	250 days 30 days	Fri 25/12/20 Fri 3/12/21	Tue 31/8/21 Sat 1/1/22	193SS+21 days 229FS+255 days
Dismantle of north scaffold for link bridge erection A&A works at South of L11 MSB	0 days 30 days	Tue 25/1/22 Fri 3/12/21	Tue 25/1/22 Sat 1/1/22	224SS 231SS
Erection of link bridge structural steel Casting of bridge deck	30 days 11 days	Sun 2/1/22 Tue 1/2/22	Mon 31/1/22 Fri 11/2/22	233 234
Metal roofing installation ABWF work	30 days 15 days	Wed 22/2/23 Fri 24/3/23	Thu 23/3/23 Fri 7/4/23	224 236
Ready for power cable laying work by others	30 days 0 days	Sun 10/4/22	Sun 10/4/22	237 238
Area Possession & Clearance	902 days 45 days	Fri 1/1/21 Fri 1/1/21	Wed 21/6/23 Sun 14/2/21	
Subletting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment)	120 days	Fri 8/1/21	Fri 7/5/21	241SS+7 days
Excavation & Pile Cap & Backfill Tower Crane erection	90 days 30 days	Sat 2/1/21 Tue 11/5/21	Thu 1/4/21 Wed 9/6/21	241SS 243FF
Construction of Wind Shiled + clearance for internal floors and flue+Ground slab	308 days	Fri 2/4/21	Mon 4/4/22	244
Structural steel fabrication & Delivery for floors and staircase	415 days	Mon 3/1/22	Tue 21/2/23	24660 - 60 - 1
Construction of G/F room incl. Microwave Antenna Rm	45 days	Thu 7/7/22	Sat 20/8/22	246SS+60 days 245SS+90 days 247
Construction of 2/F RC Slab	8 days	Fri 5/8/22	Fri 12/8/22	241
Construction of 4/F RC slab Construction of Roof RC slab	8 days 61 days	Thu 7/7/22 Tue 21/6/22	Thu 14/7/22 Sat 20/8/22	
Removal of tower Crane Steel Flue fabrication and delivery	7 days 145 days	Sun 21/8/22 Sat 5/3/22	Sat 27/8/22 Wed 27/7/22	253
Set up for steel flue installation Lift & install steel flue liner + cladding works	60 days 200 days	Tue 5/7/22 Thu 28/7/22	Fri 2/9/22 Sun 12/2/23	246
Installation Louvre & Doors	60 days	Mon 13/2/23	Thu 13/4/23	246 257
Mis works, Demobilization and ready for gas duct connection Section D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for installation of	17 days 102 days	Thu 5/1/23 Tue 1/3/22	Fri 10/6/22	
microwave and antenna Completion of Microwave Antenna Room	0 days	Tue 1/3/22	Tue 1/3/22	
Remaining ABWF & BS Works Section E - (i) Administration and Control Building	100 days 332 days	Thu 3/3/22 Fri 4/12/20	Fri 10/6/22 Sun 31/10/21	262FS+1 day
(Transformer Room) Area Possession & Clearance + BD consent	60 days	Fri 4/12/20	Mon 1/2/21	6
		Tue 2/2/21	Wed 12/5/21	265SS+21 days
	Area Possession & Clearance Subletting / Fabrication / Delivery (for MSB L12 civil) Excavation to foundation level at ELS SP Type A & C Inerall CW Quite Fige Construction of pite caps & the beams & sump pits up to 42 FmPD. Backfill & Construction of CW Inlet Box + the beams Construction of pite caps & the beams & sunp site up to 42 FmPD. Backfill & Construction ground beams & trenches Construction of pite caps & the beams at SunshadeCover Area Backfill & construction orground drainage Backfill & construction orground drainage Backfill & construction orground drainage Backfill & construction orground estabs Construction Column casting and RC walls & equipment foundations ABPW Works Building Services Works Building Services Works Building Services Works Miss. Works and Ready for condenser move in Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern areas mentioned above in Area F5 Area Possession & Clearance Subletting / Fabrication / Delivery Complete substructure & Steel Erection works for MSB Construction all utilities deeper than 2m from tuture road level Construction of cable trenches Backfill and only the top and the steel of L12 MSB with all underground utilities at Area F4 Including the pipe and building / Fabrication / Delivery Construction of pile caps & its beams at Transformer Area Backfill and on-grade slab at transformer Area Backfill and on-g	Subtetting / Fabrication / Delivery (for MSB L12 civil) 150 days Excavation to foundation level at ELS SP Type A & C 80 days Install CW Outlet piece with the construction of CW Outlet Box - Invest to bean & cose Construction of CW Outlet Box - Invest to bean & cose Construction of CW Outlet Box - Invest to bean & cose Gonstruction of CW Outlet Box - Invest to bean & cose Gonstruction of CW Outlet Box - Invest to bean & cose Gonstruction of piece caps & to beans at SunShadeCover Area Gonstruction of piece caps & to bean as SunShadeCover Area Gonstruction of piece caps & to bean as SunShadeCover Area Gonstruction of glice caps & to bean as SunShadeCover Area Gonstruction of cultimore ground beams & trenches Gonstruction of cultimore ground beams & trenches Gonstruction of cultimore ground beams & trenches Gonstruction of ground ground surrounding L12 Gonstruction of Ready for condenser move in Gonstruction of Read and external ground	Subtetting Fabrication Delivery (for MSB L12 ovii) 150 days	of confidence 45 days Fri 4/12/20 Sun 17/1/21 Subsetting / Rabication: Delivery (in MSB 1.12 du) 190 days Fri 19/1/21 Sun 19/1/21 Subsetting / Rabication: Delivery (in MSB 1.12 du) 190 days Fri 19/1/21 Sun 19/1/21 Excession of Control Control (in MSB 1.12 du) 190 days Med 20/1/21 Sun 19/1/21 Excession of Control Control (in MSB 1.12 du) 190 days Sul 15/21 Was 20/1/21 Excession of Control (in MSB 1.12 du) 190 days Sul 15/21 Was 20/1/21 Excession of Control (in MSB 1.12 du) 190 days Sul 15/21 Was 20/1/21 Excell (in MSB 1.12 du) 190 days Tu 19/1/21 Tu 19/1/21 <td< td=""></td<>

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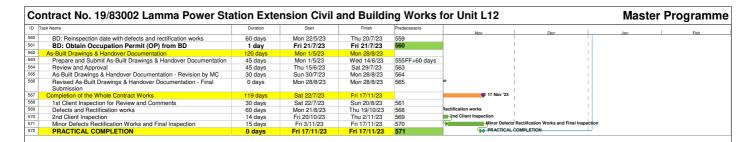
67	sk Name	Duration	Start	Finish	Predecessors	
	Excavation works Main Earth Grid Installation	45 days 45 days	Fri 4/12/20 Sun 3/1/21	Sun 17/1/21 Tue 16/2/21	265SS 267FS-15 days	
	Pile cap and Tie Beam Tower Crane Erection and modification works	45 days 49 days	Sun 3/1/21 Wed 10/2/21	Tue 16/2/21 Tue 30/3/21	268SS 269FS-7 days	
	Substructure + Bearing walls + On grade slabs Construction of RC up to 1/F incl. staircases	115 days 69 days	Wed 17/2/21 Sat 12/6/21	Fri 11/6/21 Thu 19/8/21	269 271	
	ABWF at G/F	52 days	Fri 10/9/21	Sun 31/10/21	272FS+21 days	
	Section E (ii) Handover G/F, 1/F, 2/F & Hoisting Well Clearing Works and plant set-up	452 days 21 days	Fri 4/12/20 Sun 31/10/21	Mon 28/2/22 Sat 20/11/21		
	Subletting / Fabrication / Delivery (For NSC Lift) Construction of RC up to 2/F incl. staircases	180 days 25 days	Sun 3/1/21 Sat 14/8/21	Sat 31/7/21 Mon 13/9/21	266SS 272	
			_			
	Construction of RC up to 3/F incl. staircases	20 days	Thu 2/9/21	Tue 21/9/21	277SS+16 days	
	Tempoary Hoist erection Construction of RC up to 4/F incl. staircases	14 days 20 days	Wed 22/9/21 Thu 16/9/21	Tue 5/10/21 Tue 5/10/21	278 278SS+14 days	
1	Construction of RC up to 4/F incl. staircases Construction of RC up to R/F incl. staircases	25 days	Thu 10/9/21	Sun 24/10/21	280SS+14 days	
2	Construction of RC up to lift machine room Construction of RC up to Uff machine room Construction of RC up to UR/F	21 days 21 days	Mon 25/10/21 Mon 15/11/21	Sun 14/11/21 Sun 5/12/21	281 282	
4	External Wall Finish, Cladding + Windows and Louvres + Features	500 days	Thu 30/9/21	Sat 11/2/23	281SS	
5	ABWF at 1/F	95 days	Fri 8/10/21	Mon 10/1/22	277FS+24 days	
6	ABWF at 2/F	96 days	Fri 15/10/21	Tue 18/1/22	278FS+23 days	-
7	Building Services Works at G/F, 1/F, 2/F & Hoisting Well	147 days	Tue 5/10/21	Mon 28/2/22	285SS-3 days	
3	Section E (iii) Whole of Administration and Control	513 days	Sat 23/10/21	Sun 19/3/23		
9	Building Subletting / Fabrication / Delivery (For BS+ABWF)	127 days	Sat 23/10/21	Sun 20/3/22	230FS+45 days	
)	Construction of New UG Grey Water Tank Submission of WW046 for commencement	60 days 60 days	Mon 21/3/22 Wed 19/1/22	Thu 19/5/22 Sat 19/3/22	287SS-30 days	
	ABWF at 3/F	500 days	Mon 25/10/21	Wed 8/3/23	286SS+10 days	
3	ABWF at 4/F	470 days	Wed 24/11/21	Wed 8/3/23	292SS+30 days	
4	ABWF at R/F ABWF at UR/F + Lift Machine Room	470 days 35 days	Wed 24/11/21 Wed 1/2/23	Wed 8/3/23 Mon 13/3/23	293SS 294,283FS+30	
6	Bridge Erection & Connection	28 days	Wed 1/2/23 Wed 9/3/22	Wed 27/4/22	days 295,298SS+35	
,	Installation of Raised floors	60 days	Thu 9/12/21	Sun 6/2/22	days 287SS+65 days	
В	Removal of external scaffolding	45 days	Sat 21/1/23	Tue 14/3/23	284FS-19 days	
9	Waterproofing & screeding Removal of Tower Crane	440 days 7 days	Mon 6/12/21 Thu 31/3/22	Sat 18/2/23 Wed 6/4/22	283 298FS+21 days	
1	External utiliites and road work Building Services Works	45 days 450 days	Fri 20/1/23 Sat 4/12/21	Tue 7/3/23 Sun 26/2/23	298SS+21 days 292SS+41 days	
03	False ceiling after BS works Submission of WW046 for completion	54 days 360 days	Sun 15/1/23 Wed 9/3/22	Sat 11/3/23 Fri 3/3/23	302FS-20 days 301FF	
5	Submission of FS inspection	14 days	Fri 3/3/23	Fri 17/3/23	287,304,291	
3	Submission for OP Inspection	14 days	Wed 8/3/23	Tue 21/3/23	301,304,305SS+5 days,291	
7	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14	678 days	Tue 1/6/21	Sun 9/4/23		
3	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 29/8/21	8	
9	Subletting / Fabrication / Delivery	30 days	Tue 22/6/21	Wed 21/7/21	308SS+21 days	
D 1	Installation of pipe pile at north of GRS (VO) Construction Equipment room extension	125 days 145 days	Mon 5/7/21 Sun 31/10/21	Sat 6/11/21 Thu 24/3/22	309FS-16 days	
3	Modification of existing drainage Excavation & earthing for Skid foundations	45 days 21 days	Fri 25/3/22 Mon 9/5/22	Sun 8/5/22 Sun 29/5/22	311 296	
4	Construction of Skid foundation Construct underground utilities and drainage	45 days 45 days	Mon 30/5/22 Thu 14/7/22	Wed 13/7/22 Sat 27/8/22	313 314	
16	Backfill and road works Relocate / install new fencing for completion	200 days 21 days	Sun 28/8/22 Sun 5/3/23	Wed 15/3/23 Sun 26/3/23	315 316	
8	Mis. Work and ready for OP inspection Section F (ii) - Pipe and Cable rack and external work at	14 days 941 days	Mon 27/3/23 Sat 2/1/21	Sun 9/4/23 Mon 31/7/23	317	
)	Area F9A and F9B BD consent + Site Possession at Area F9A & F9B	90 days	Sat 2/1/21	Thu 1/4/21	7	
1 2	Excavation & Plate load test Construction new footing for pipe rack	30 days 30 days	Mon 1/11/21 Wed 1/12/21	Tue 30/11/21 Mon 23/5/22	I .	
3	Underground utilities and road works for completion Structural Steel fabrication & Delivery	11 days 90 days	Thu 31/3/22 Sat 2/10/21	Tue 31/5/22 Tue 31/5/22		
5	Ercetion of new pipe rack Mis. Work and ready for OP inspection	70 days 31 days	Fri 31/12/21 Sat 1/7/23	Thu 10/3/22 Mon 31/7/23		
	Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	765 days	Tue 1/6/21	Wed 5/7/23		
	Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 14/11/21	9 328SS	
9 0 1	Subletting / Fabrication / Delivery For ABWF + BS Installation of Sheet Pile (VO)	150 days 85 days	Wed 2/6/21 Tue 1/6/21	Fri 29/10/21 Tue 24/8/21	32855	
2	Consent for ELS Works Excavation & Plate load test	28 days 30 days	Wed 25/8/21 Wed 22/9/21	Tue 21/9/21 Thu 21/10/21	331	
3	Construction new footing for equipment room	68 days	Thu 23/12/21	Mon 28/2/22	332	
	Superstructure for equipment room ABWF Works	60 days 45 days	Tue 1/3/22 Sat 30/4/22	Fri 29/4/22 Mon 13/6/22	333 334	
	BS Works	400 days	Wed 1/6/22	Wed 5/7/23	335SS+3 days	
7	Construction RC Wall & plinths & drainage at Chlorinator area External wall finish & remove scaffolding	280 days 60 days	Wed 30/3/22 Sat 31/12/22	Tue 3/1/23 Tue 28/2/23	337	
-	Excavation & Plate load test for pipe rack extension (For F45-47 & F49)	30 days	Sat 16/10/21	Sun 14/11/21	332FS-6 days	
t	Construction new footing for pipe rack (For F45-47 & F49) Underground utilities and road works for completion	45 days 31 days	Mon 15/11/21 Wed 1/3/23	Wed 29/12/21 Fri 31/3/23	339 338	
:	Structural Steel fabrication & Delivery	90 days	Sun 12/12/21	Fri 11/3/22	341FF+12 days	
3	Backfilling and prepare for steel erection	12 days	Mon 28/2/22	Fri 11/3/22	342FS-12 days	
1	Excavation & Plate Load test for pipe rack extenstion (For F48 F56)	14 days	Wed 30/3/22	Tue 12/4/22	343FS+18 days	
15	Construction of new footing for pipe rack (For F48 & F56)	14 days	Wed 13/4/22	Tue 26/4/22	344 345ES+8 days	
17	Erection of new pipe rack (For F48 & F56) Erection of new pipe rack (For F45-47 & F49)	65 days 70 days	Tue 3/5/22 Sat 12/3/22	Wed 6/7/22 Fri 20/5/22	345FS+6 days 343	
8	Mis. Work and ready for OP inspection	56 days	Sun 7/5/23	Wed 5/7/23	336FF	31 Oct '23
)	Section G (i) - External Work surrounding Area F11 Area Possession & Clearance after handover from No. 5 Intake	254 days 31 days	Mon 20/2/23 Wed 1/3/23	Tue 31/10/23 Fri 31/3/23	11	, 5, 50, 23
1 2	Contractor Subletting / Fabrication / Delivery Submission WWO046 for commencement	31 days	Mon 20/2/23 Wed 1/3/23	Wed 22/3/23 Fri 31/3/23	350SS 350SS	
3	Submission WW0046 for commencement Construct Underground utilities and drainage	31 days	Wed 1/3/23	Fri 31/3/23	350SS 350	
1	Construct Underground utilities and drainage Install new FS Hydrant	150 days 20 days	Sat 1/4/23 Mon 10/7/23	Mon 28/8/23 Sat 29/7/23	350 353FF-30 days	
5	Submission WWO046 for completeion Construction Road extension	30 days	Sun 30/7/23 Sun 30/7/23	Mon 28/8/23 Mon 25/9/23	354 354	
57 58	Construction Hoad extension Construction road paving and install fencing Ready for OP inspection	58 days 30 days 14 days	Sun 30/7/23 Tue 26/9/23 Wed 18/10/23	Wed 25/10/23 Tue 31/10/23	354 356 357FS-8 days	ruction road paving and inst Ready for OP inspection
59	Section G (ii) - External Works at Area F12 & F13 Area Possession & Clearance after handover from other	961 days 45 days	Thu 4/3/21 Wed 17/5/23	Fri 20/10/23 Fri 30/6/23	6	
61	Subletting / Fabrication / Delivery	180 days	Wed 17/5/23 Thu 4/3/21	Mon 30/8/21	360SS+90 days	
2	Excavation	180 days 7 days	Sat 1/7/23	Fri 7/7/23	360	
	ER PROGRAMME Task	Split •	Mileston	e •	iummary 🔻	•
	B 23 Aug 2021 Paul Y					

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13	ntract No. 19/83002 Lamma Power Stat	Duration	Start Start	and Bullal	ng works	101 0
	Submission WWO046 for commencement	30 days	Thu 8/6/23	Fri 7/7/23	362FF	+
	Construct Underground utilities and drainage Install new FS Hydrant	60 days 15 days	Sat 8/7/23 Wed 6/9/23	Tue 5/9/23 Wed 20/9/23	363 364	wwo
	Submission WWO046 for completion Construction Road extension Complete with Mis. Works for completion	30 days 15 days 15 days	Thu 21/9/23 Thu 21/9/23 Fri 6/10/23	Fri 20/10/23 Thu 5/10/23 Fri 20/10/23	365 365 367	ith Mis
	Section G (iii) - FS Modification works along South Seafront Road at Area F15	183 days	Fri 1/4/22	Fri 30/9/22	307	
	Area Possession & Clearance after handover from other	45 days	Fri 1/4/22 Fri 1/4/22	Sun 15/5/22	10 370SS	
	Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	21 days 14 days	Fri 1/4/22	Thu 21/4/22 Thu 14/4/22	370SS	
1	Utilities scanning and expose existing FS Determine new FS alignment	14 days 21 days	Fri 15/4/22 Fri 29/4/22	Thu 28/4/22 Thu 19/5/22	372 373	
5	Submission to FSD Modification of FS	14 days 60 days	Fri 20/5/22 Fri 3/6/22	Thu 2/6/22 Mon 1/8/22	374 375	-
7	Backfill and reinstatment + report to FSD Section G (iv) - 275kV cable trenches and External Works at	60 days 836 days	Tue 2/8/22 Sat 1/5/21	Fri 30/9/22 Mon 14/8/23	376	
9	Area F16 Area Possession & Clearance	60 days	Sat 1/5/21	Tue 29/6/21	8	4
10					379SS+200 days	_
31	Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	210 days 60 days	Wed 17/11/21 Sat 1/5/21	Tue 14/6/22 Tue 29/6/21	379SS	
32	Removal of aboveground services Utilities scanning and expose exising UU	60 days 30 days	Wed 30/6/21 Sun 29/8/21	Sat 28/8/21 Mon 27/9/21	381 382	-
5	Arrange of diversion existing UG utilities Construct new cable trenches	90 days 550 days	Tue 28/9/21 Mon 27/12/21	Sun 26/12/21 Thu 29/6/23	383 384	-
B6 B7	Realigment / install new UG utilities Backfill and reinstate & ready for cable laying by others	30 days 45 days	Fri 23/6/23 Sat 1/7/23	Sun 23/7/23 Mon 14/8/23	385 386	-
В	Section G (v) - Shunt Reactor Compound and External Works at Area F17	912 days	Fri 4/12/20	Sat 3/6/23		
•	Temporary Traffice Arrangement approval	45 days	Fri 4/12/20	Sun 17/1/21	6	1
			F 05 10	0.000		
90	Subletting / Fabrication / Delivery BD approval & consent for pipe pile installation	100 days 90 days	Fri 25/12/20 Fri 4/12/20	Sat 3/4/21 Wed 3/3/21	389SS+21 days 389SS	
92 93	Area Possession & Clearance Removal of aboveground services	14 days 21 days	Thu 4/3/21 Thu 18/3/21	Wed 17/3/21 Wed 7/4/21	391 392	
94	Utilities scanning and expose exising UU Arrange of diversion existing UG utilities	15 days 45 days	Thu 8/4/21 Fri 23/4/21	Thu 22/4/21 Sun 6/6/21	393 394	-
96	Install pipe piles	61 days	Sun 23/5/21	Thu 22/7/21	395SS+30 days	-
97	BA14 for pipepile and BD consent for ELS	28 days	Fri 23/7/21	Thu 19/8/21	396	_
99	Excavation & install earthing Construct Pile Caps and Tie Beams	35 days 45 days	Fri 20/8/21 Fri 24/9/21	Thu 23/9/21 Sun 7/11/21	397 398	
00	Backfill & Erect scaffold Construction of SRC Walls	21 days 75 days	Mon 8/11/21 Mon 29/11/21	Sun 28/11/21 Fri 11/2/22	399 400	
02	Wall finish and remove scaffolding Construct new cable trenches	380 days 60 days	Sat 12/2/22 Thu 9/2/23	Sun 26/2/23 Sun 9/4/23	401 402	+
34	Install new UG Utilties, Backfill and reinstate & ready for cable laying	55 days	Thu 7/4/22	Tue 31/5/22	403SS+30 days	-
05	by Others for DAX1 Realigment / install new UG utilities (for DAX2, APX1 & APX3)	30 days	Tue 4/4/23	Thu 4/5/23	403	+
06	Backfill and reinstate & ready for cable laying by others (for DAX2, APX1, & APX3)	30 days	Thu 4/5/23	Sat 3/6/23	405	1
07	Section G (vi) - 275kV cable trenches and External Works at	397 days	Sat 1/5/21	Wed 1/6/22		
08	Area F18 Temporary Traffice Arrangement approval	45 days	Sat 1/5/21	Mon 14/6/21	8	1
10	Subletting / Fabrication / Delivery Area Possession & Clearance	60 days 15 days	Tue 15/6/21 Sat 1/5/21	Fri 13/8/21 Sat 15/5/21	389SS+21 days,408 408SS	-
11	Removal of aboveground services Utilities scanning and expose exising UU	30 days 45 days	Sun 16/5/21 Tue 15/6/21	Mon 14/6/21 Thu 29/7/21	410 411	-
3	Arrange of diversion existing UG utilities Construct new cable trenches	60 days	Fri 30/7/21 Tue 28/9/21	Mon 27/9/21 Fri 18/3/22	412 413	
5	Realigment / install new UG utilities	172 days 45 days	Sat 19/3/22	Mon 2/5/22	414	_
7	Backfill and reinstate & ready for cable laying by others Section G (vii) - Flood wall at No. 5 CW Intake Area along	30 days 803 days	Tue 3/5/22 Fri 4/12/20	Wed 1/6/22 Tue 14/2/23	415	
3	HUA at Area F20A Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	6	4
19	Subletting / Fabrication / Delivery	60 days	Fri 25/12/20	Mon 22/2/21	418SS+21 days	-
20	Temporary Traffice Arrangement approval	300 days	Fri 4/12/20	Wed 29/9/21	418SS	
21	ELS BD approval & consent Demolition of existing carriageway	90 days 30 days	Fri 18/12/20 Thu 11/11/21	Wed 17/3/21 Fri 10/12/21	420 421SS-7 days	
13	Removal of aboveground services Utilities scanning and expose exising UU	21 days 21 days	Thu 30/9/21 Thu 21/10/21	Wed 20/10/21 Wed 10/11/21	423	-
25 26	Arrange of diversion existing UG utilities Excavation and construction of new Flood wall	30 days 65 days	Sat 11/12/21 Mon 10/1/22	Sun 9/1/22 Tue 15/3/22	424 425	-
27	Realigment / install new UG utilities	30 days	Wed 16/3/22	Thu 14/4/22	426	
28 29	Backfill and construct new carriageway Mis. Work for completion	300 days 6 days	Fri 15/4/22 Thu 9/2/23	Wed 8/2/23 Tue 14/2/23	427 428	-
30	Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	729.5 days	Fri 1/10/21	Sat 30/9/23		
31	Area Possession & Clearance	45 days	Fri 1/10/21	Sun 14/11/21	9	1
32	Subletting / Fabrication / Delivery	90 days	Fri 22/10/21	Wed 19/1/22	431SS+21 days	1
34	Temporary Traffice Arrangement approval ELS BD approval & consent	14 days 90 days	Fri 1/10/21 Fri 15/10/21	Thu 14/10/21 Wed 12/1/22	431SS 433	
35 36	Demolition of existing carriageway Removal of aboveground services	630 days 21 days	Fri 1/10/21 Tue 20/6/23	Thu 22/6/23 Tue 11/7/23	431SS 435	-
37 38	Utilities scanning and expose exising UU Arrange of diversion existing UG utilities	21 days 30 days	Wed 5/7/23 Sun 23/7/23	Wed 26/7/23 Tue 22/8/23	436 437	1
39	Install Sheetpiles BA14 for sheetpile and BD consent for ELS	55 days 28 days	Thu 10/2/22 Wed 6/4/22	Tue 5/4/22 Tue 3/5/22	438 439	1
41	Excavation and construction of new Flood wall	30 days	Wed 26/7/23	Fri 25/8/23	438	1
42	Realigment / install new UG utilities Backfill and construct new carriageway	15 days 21 days	Fri 25/8/23 Thu 7/9/23	Sat 9/9/23 Thu 28/9/23	441 442	ıy
44 45	Mis. Work for completion Section G (ix) - Bund wall modification works at South	9 days 316 days	Thu 21/9/23 Fri 4/12/20	Sat 30/9/23 Fri 15/10/21	443FS-7 days	ď
16	Seafront Road at Area F21 Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	6	4
1	Alea i Usecselli a Olcafallice	45 uays	rri 4/ 12/20	Juli 17/1/21	U	
47	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	Wed 24/3/21	446SS+21 days	-
48 49	Temporary Traffice Arrangement approval ELS BD approval & consent	165 days 0 days	Fri 4/12/20 Thu 17/12/20	Mon 17/5/21 Thu 17/12/20	446SS 448	
50	Demolition of existing carriageway Removal of aboveground services	14 days 14 days	Tue 18/5/21 Tue 1/6/21	Mon 31/5/21 Mon 14/6/21	449 450	1
12	Utilities scanning and expose exising UU	21 days	Tue 15/6/21	Mon 5/7/21	451	1
2		40.		0	450	
53	Arrange of diversion existing UG utilities (include FS pipe under 17/8002)	40 days	Tue 6/7/21	Sat 14/8/21	452	
54	Excavation and expose existing bund wall & demolish	18 days	Wed 28/7/21	Sat 14/8/21	452FS+22 days	
55 56	Construction new bund wall for road junction Realigment / install new UG utilities (include FS pipe under 17/8002)	21 days 60 days	Sat 4/9/21 Sun 1/8/21	Fri 24/9/21 Wed 29/9/21	454FS+20 days 452FS+26 days	-
57	Backfill and construct new carriageway	16 days	Thu 30/9/21	Fri 15/10/21	452F5+26 days	-
58	Mis. Work for completion	5 days	Mon 11/10/21	Fri 15/10/21	457FS-5 days	
	Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	955 days	Fri 4/12/20	Sun 16/7/23		1
60	Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery	14 days 90 days	Fri 4/12/20 Fri 25/12/20	Thu 17/12/20 Wed 24/3/21	6 446SS+21 days,460	1
	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	460SS	1
61 62	Identification of existing cable trench Part 1 Re-excavation works incl.construction of joint bay (at Water	7 days 246 days	Mon 18/1/21 Mon 25/1/21	Sun 24/1/21 Mon 27/9/21	462 463	-
61 62 63	Reservoir Road)	310 days	Mon 25/1/21	Tue 30/11/21	464SS	-
61			===			
61 62 63 64	Part 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	100 da	Mon 1/11/01	Man agraras		- 1
61 62 63 64	Part 1 Re-excavation works incl construction of joint bay (other than	120 days 500 days	Mon 1/11/21 Mon 1/11/21	Mon 28/2/22 Wed 15/3/23		-

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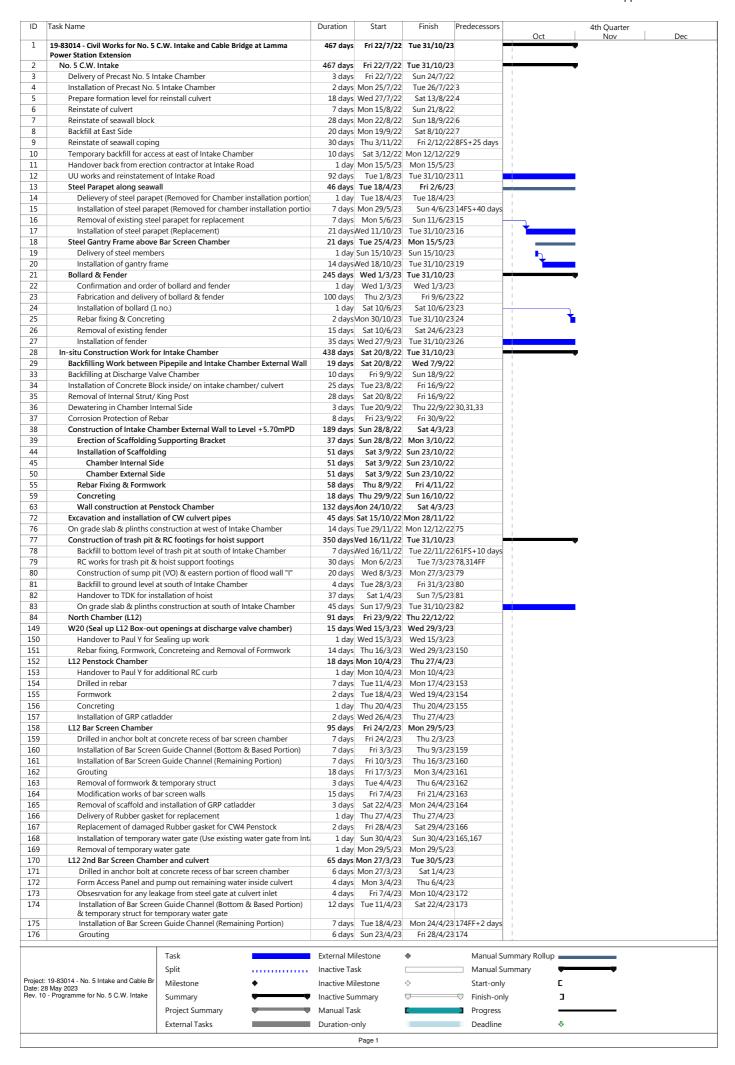
ase	tract No. 19/83002 Lamma Power Sta	Duration	Start	Finish	Predecessors	Mar. 1	D		Ion I
	Part 4 Re-excavation works incl. joint bay & new oil tank pits	92 days	Sat 1/10/22	Sat 31/12/22		Nov	Dec		Jan
	Backfill & Reinstatement Part 1 Backfill & Reinstatement Part 2	61 days 61 days	Mon 1/11/21 Sun 1/5/22	Fri 31/12/21 Thu 30/6/22	466SS 466FS+61 days	ı			
	Backfill & Reinstatement Part 3 Section H - All remaining works shall be completed for	61 days 736.15 days	Wed 17/5/23 Wed 17/11/21	Sun 16/7/23 Thu 23/11/23	467FS+62 days	c.K3 © 23 Nov	'23		
į	eporting completion to BD and ready for OP inspection PS1.4.4)					į	İ		
	Deferred works (MSB & HRSG) Listed in PS 1.4.4	539 days	Wed 17/11/21	Tue 9/5/23		i	1		
	Construction of L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the Employer's	38 days	Wed 17/11/21	Tue 4/1/22	213SS	I	I I		
	Specialist Contractors Construction of walls ofL12 MSB below 1/F along GL 12-6 from	92 days	Mon 16/5/22	Mon 15/8/22	80	·	i		
	GL12-B to 12-C and the associated staircases including the enclosure walls between G/F and 1/F. The Contractor shall allow	JE days	WOTI TO/S/ZZ	WIGH 13/G/EZ	00		I I		
	access for the Employer's Specialist Contractors to use the					i	į		
	hoisting we Provision in associated with hoisting well	21 days	Mon 6/6/22	Sun 26/6/22	475SS+21 days				
	Construction of internal partition wall at 1/F ofL12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Façade at 1/F of L12 MSB	30 days	Wed 1/3/23	Thu 30/3/23		!	!		
	along GL 12-1 from GL 12-B to 12-C								
	Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable shelter at	120 days	Tue 10/1/23	Tue 9/5/23		i	İ		
	Transformer Area Deferred works (DAX1 and DAX2) Listed in PS 1.4.4	151 days	Com 1/1/02	Wed 31/5/23					
	Backfilling of whole DAXI compartment inside existing joint bay	151 days 59 days	Sun 1/1/23 Wed 1/2/23	Fri 31/3/23	469SS	!	!		
	"STJI2" and the new oil tank pit A located aside existing joint bay "STJI2".								
	Re-excavation of whole DAX2 compartment inside existing joint bay "STJI2".	61 days	Sun 1/1/23	Thu 2/3/23	470	!			
	Backfilling of whole DAX2 compartment inside existing joint bay	61 days	Sat 1/4/23	Wed 31/5/23					
	"STJI2" and the new oil tank pit B located aside existing joint bay "STJI2".					!	1		
	Deferred works (External Work) Listed in PS 1.4.4 Final reinstatement of access roads and pavement surrounding	357.15 days	Thu 1/12/22 Thu 1/12/22	Thu 23/11/23 Mon 16/10/23	185	23 Nov	23 surrounding and within L12 MSB and	L12 HRSG are	ea.
	and within L12 MSB and L12 HRSG area	320 days				· 1	- 1		
	Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.	30 days	Sun 1/1/23	Thu 28/9/23	387FF,406FS+92 days,416	einstatement of gas pipe and cable	1		
	Backfilling and road-reinstatement of 275kV cable trenches	60 days	Sun 1/1/23	Thu 23/11/23 Sat 1/7/23	485	Backfill	ng and road-reinstatement of 275kV	cable trenches	
7	All Remaining work ready for OP inspection ATUTORY SUBMISSION, INSPECTION &	0 days 560 days	Sat 1/7/23 Tue 16/11/21	Sat 1///23 Mon 29/5/23		i			
F	PROVAL					!			
	VSD Statutory Submission, Inspection and Approval WWO Part I o III Submission / Approval	256 days	Tue 16/11/21	Fri 29/7/22		i	 		
	WSD : Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)	0 days	Tue 16/11/21	Tue 16/11/21	222SS,287SS		1		
	WSD: Vetting Form WWO 046 Part I and II Submission	90 days	Wed 17/11/21	Mon 14/2/22	490SS+1 day	i	i		
	WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building	0 days	Tue 15/2/22	Tue 15/2/22	491FS+1 day		1		
	WSD: Prepare for 1st Amendment for Plumbing Plan WSD: Submit to WSD 1st Amendment for Plumbing Plan	60 days 0 days	Tue 15/2/22 Fri 15/4/22	Fri 15/4/22 Fri 15/4/22	492FS-1 day 493	i	i		
	WSD: Vetting of Plumbing Plan by WSD	60 days	Sat 16/4/22	Tue 14/6/22	494	1 !	 		
	WSD: 1st Approval for Plumbing Plan by WSD WSD: Prepare and Submit for Final Amendment for Plumbing Plan	0 days 45 days	Tue 14/6/22 Wed 15/6/22	Tue 14/6/22 Fri 29/7/22	495 496	i	i		
	WSD: Vetting and Final Approval for Plumbing Plan by WSD	0 days	Fri 29/7/22	Fri 29/7/22	497	-	 		
,					1.2.		İ		
	VSD Statutory Submission, Inspection and Approval WWO Part V to V Fire Services Water Submission / Approval	33 days	Fri 29/7/22	Wed 31/8/22			I		
	WSD: Form WWO 046 Part IV Submission (FS) WSD: WSD Recieved Form WWO046 Part IV and arrange for	0 days 7 days	Fri 3/3/23 Fri 3/3/23	Fri 3/3/23 Thu 9/3/23	498 500		!		
	inspection (FS)								
	WSD: WSD Inspection (FS) WSD: WWO 046 Part V Endorsement by WSD (FS)	7 days 12 days	Fri 10/3/23 Fri 17/3/23	Thu 16/3/23 Tue 28/3/23	501 502		1		
	WSD: WSD Processing Water Supply Connection Certificate (FS)	7 days	Wed 29/3/23	Tue 4/4/23	503				
	WSD: Issue by WSD Water Supply Connection Certificate (FS)	0 days?	Tue 4/4/23	Tue 4/4/23	504FF		I		
	VSD Statutory Submission, Inspection and Approval WWO Part V to V Potable /Flush Water Submission / Approval	60 days	Fri 3/3/23	Mon 1/5/23					
	WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 3/3/23	Fri 3/3/23 Wed 8/3/23	498FS+21 days 507		I		
	WSD: WSD Acknowledge Form WWO 046 WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	6 days 12 days	Fri 3/3/23 Thu 9/3/23	Mon 20/3/23	508				
	WSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush)	6 days	Tue 21/3/23	Sun 26/3/23	509	l l	I		
	WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	12 days	Mon 27/3/23	Fri 7/4/23	510]			
	WSD:Accredited Lab Testing Report of Sample to WSD	12 days	Sat 8/4/23	Wed 19/4/23	511	!	1		
	WSD: Vetting of Test Report by WSD WSD: Issue of WWO 046 Part V (Fresh/Flush)	6 days 0 days	Thu 20/4/23 Tue 25/4/23	Tue 25/4/23 Tue 25/4/23	512 513	i	İ		
	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	6 days	Wed 26/4/23	Mon 1/5/23	514		I		
	WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush)	0 days	Mon 1/5/23	Mon 1/5/23	515	1 i	i		
J	EMSD LIFT Statutory Submission, Inspection and Approval	45 days	Wed 15/2/23	Fri 31/3/23			1		
_	EMSD: Submission of Lift Form LE5 to EMSD EMSD: EMSD Makes arrangement for Lift Installation	12 days 5 days	Wed 15/2/23 Mon 27/2/23	Sun 26/2/23 Fri 3/3/23	518	. i	i		
	EMSD: EMSD Inspection to Lift Installation	14 days	Sat 4/3/23	Fri 17/3/23	519	1 :	 		
	EMSD: Processing Lift Certificate (Form LE6) EMSD: Lift Issuance of Form 6 (Lift Certificate)	14 days 0 days	Sat 18/3/23 Fri 31/3/23	Fri 31/3/23 Fri 31/3/23	520 521		İ		
	IKE Transformer Final Inspection TX Room: Invite HKE For Transformer Room Inspection	120 days	Sat 30/7/22 Sat 30/7/22	Sat 26/11/22 Fri 5/8/22	296FF+100 days	-	 		
	TX Room: Give Access to Transformer Room for HKE Contractor	7 days 0 days	Fri 5/8/22	Fri 5/8/22	524		İ		
	TX Room: Move-IN HKE Transformer Equipments TX Room: Install HKE Transformer, MEP Works & Testing	5 days 90 days	Sat 6/8/22 Thu 11/8/22	Wed 10/8/22 Tue 8/11/22	525 526	- 1			
	TX Room: HKE Power Energization / Inspection	6 days	Wed 9/11/22	Mon 14/11/22	527	!	!		
	TX Room: Metering Installation TX Room: HKE Power-ON Date	12 days 0 days	Tue 15/11/22 Sat 26/11/22	Sat 26/11/22 Sat 26/11/22	528 529		 		
1	DSD Drainage Completion Memo DSD: CCTV Survey Report on Completed Drainage	65 days 30 days	Fri 30/6/23 Fri 30/6/23	Sat 2/9/23 Sat 29/7/23	352FF+120 days	. !	!		
	DSD: Submitted CCTV Report & Form HPB1 of Completed	7 days	Sun 30/7/23	Sat 5/8/23	532 532				
	Drainage to DSD For Technical Audit DSD: Completed Drainage System including TMC	14 days	Sun 6/8/23	Sat 19/8/23	533	!	!		
	Inspection/Technical Audit by DSD DSD: Preparation of Drainage Connection Completion Memo by	14 days	Sun 20/8/23	Sat 2/9/23	534		 		
	DSD					. !	1		
ı	DSD: Issue of Drainage Connection Completion Memo by DSD PD Submission, Inspection and Approval	0 days 60 days	Sat 2/9/23 Wed 5/7/23	Sat 2/9/23 Sun 3/9/23	535		1		
	EPD: License Application to EPD under APCO (Cap 311) for Generator Sets	0 days	Wed 5/7/23	Wed 5/7/23	336		1		
	EPD: Vetting of Application by EPD under APCO (Cap 311) for	60 days	Thu 6/7/23	Sun 3/9/23	538	erator Sets			
	Generator Sets EPD: Approval from EPD under APCO (Cap 311) for Generator	0 days	Sun 3/9/23	Sun 3/9/23	539	s Installation	1		
,	Sets Installation FSD VAC Statutory Submission, Inspection and Approval	150 days	Wed 20/7/22	Fri 16/12/22		-	1		
	Preparation of FSD VAC Drawings and Submission to HEC	60 days	Wed 20/7/22	Sat 17/9/22	347FF+120 days		I		
	HEC: Review and Approval Preparation of VAC Drawings and Submission to FSD	30 days 30 days	Sun 18/9/22 Tue 18/10/22	Mon 17/10/22 Wed 16/11/22	542 543		i		
	FSD: Review and Approval SD Statutory Submission, Inspection and Approval	30 days	Thu 17/11/22 Sun 15/1/23	Fri 16/12/22 Sat 15/4/23	544		I		
	Testing and Commissioning (Individual System - FSI Related)	91 days 45 days	Sun 15/1/23	Tue 28/2/23			i		
	FSD: All Sections FS Ingration Test by NSC_BS FSD: Completion of FS Integration Test by NSC_BS for FS314/501	15 days 0 days	Wed 1/3/23 Wed 15/3/23	Wed 15/3/23 Wed 15/3/23	547 548	-	1		
			Wed 15/3/23 Wed 15/3/23	Wed 15/3/23 Wed 15/3/23	549		i		
	FSD: Submit Form 213/314 & Form 501 Request for Inspection FSD: FSD Makes Arrangement for Inspection	0 days 7 days	Thu 16/3/23	Wed 22/3/23	550		I		
	FSD: FSD Inspection FSD: Completion of FS Inspection	12 days 0 days	Thu 23/3/23 Mon 3/4/23	Mon 3/4/23 Mon 3/4/23	551 552	·	i		
	FSD: FSD Processing FS Certicate Form 172	12 days	Tue 4/4/23	Sat 15/4/23	553		1		
	FSD: Issue of Fire Services FS Certificate Form 172	0 days	Sat 15/4/23	Sat 15/4/23	554	i	i		
	RACTICAL COMPLETION	216 days	Sun 16/4/23	Fri 17/11/23		■ 17 Nov '23	 		
	BD: Application BD: Application Form BA13 for OP Application	97 days 21 days	Sun 16/4/23 Sun 16/4/23	Fri 21/7/23 Sat 6/5/23	555	i	i		
	BD: BD Inspection Date	15 days	Sun 7/5/23	Sun 21/5/23	558				



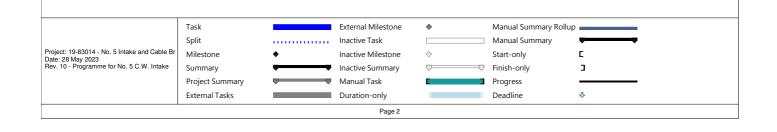
PaulY

Split Milestone ◆

Summary



ID T	Fask Name	Duration	Start	Finish	Predecessors	0-1	1	4th Quarter	D-
177	Installation of Dosing Pipe for vertical portion	2 davs	Tue 25/4/23	Wed 26/4/23	175	Oct		Nov	Dec
178	Removal of formwork & temporary struct (by Paul Y.), installation of conduit (by other) and removal of scaffolding	3 days		Mon 1/5/23	176,177	1			
179	Installation of GRP catladder	1 day	Tue 2/5/23	Tue 2/5/23	178	1			
180	Water filling of chamber	1 day	Wed 3/5/23	Wed 3/5/23	168,179	II			
181	Removal of Steel Gate (Friendly Benefit)	9 days	Thu 4/5/23	Fri 12/5/23	180	İ			
182	Removal of Steel Gate at Culvert Inlet L12 (WOD)	4 days	Thu 27/4/23	Sun 30/4/23	177	1			
183	Installation of Dosing Pipe for culvert portion		Mon 1/5/23	Sat 6/5/23		i			
184	Connection of Dosing Pipe for culvert & vertical portion	2 days	Sat 13/5/23	Sun 14/5/23	181,183	I.			
185	Testing & Commissioning		Tue 30/5/23	Tue 30/5/23					
186	Centre Chamber (Spare)	124 days	Tue 25/10/22	Sat 25/2/23		1			
238	W20 (Seal up spare Box-out openings at discharge valve chamber)	15 days	Sat 15/4/23	Sat 29/4/23					
239	Handover to Paul Y for Sealing up work		Sat 15/4/23	Sat 15/4/23		İ			
240	Rebar fixing, Formwork, Concreteing and Removal of Formwork	18 days	Sun 16/4/23	Wed 3/5/23	239				
241	Spare Penstock Chamber		Wed 31/5/23	Sat 10/6/23		i			
242	Drilled in rebar	,	Wed 31/5/23	Tue 6/6/23	156FS+40 day	1			
243	Handover to TDK for installation of Cast-in embedment		Wed 7/6/23	Wed 7/6/23	-				
244	Formwork	,	Thu 8/6/23	Fri 9/6/23		1			
245	Concreting	,	Sat 10/6/23	Sat 10/6/23		II			
246	Spare Bar Screen Chamber	65 days		Mon 5/6/23		<u> </u>			
247	Drilled in anchor bolt at concrete recess of bar screen chamber	7 days		Sat 8/4/23					
248	Installation of Bar Screen Guide Channel (Bottom & Based Portion)	14 days				İ			
249	Installation of Bar Screen Guide Channel (Remaining Portion)	,	Tue 16/5/23			1			
250	Grouting	,	Tue 23/5/23						
251	Removal of formwork & temporary struct (by Paul Y.) and installation of conduit (by other)		Tue 30/5/23	Thu 1/6/23		1			
252	Modification works of bar screen walls	14 days	Tue 23/5/23	Mon 5/6/23	249	İ			
253	Removal of scaffold and installation of GRP catladder	3 days	Tue 6/6/23	Thu 8/6/23	252	1			
254	Installation of temporary water gate (Use existing water gate from Int	1 day	Fri 9/6/23	Fri 9/6/23	169,253				
255	Removal of temporary water gate	1 day	Sun 15/10/23	Sun 15/10/23	256	1			
256	Spare 2nd Bar Screen Chamber and culvert	106 days		Sun 23/7/23					
257	Drilled in anchor bolt at concrete recess of bar screen chamber	6 days		Fri 14/4/23		i			
258	Installation of Bar Screen Guide Channel (Bottom & Based Portion)	14 days		Thu 15/6/23		I			
	& temporary struct for temporary water gate	,				i i			
259	Installation of Bar Screen Guide Channel (Remaining Portion)	7 days	Fri 16/6/23	Thu 22/6/23	258	1			
260	Grouting	7 days	Fri 23/6/23	Thu 29/6/23	259	II			
261	Removal of formwork & temporary struct (by Paul Y.), installation of conduit (by other) and removal of scaffolding	3 days	Fri 30/6/23	Sun 2/7/23	260	i I			
262	Water filling of chamber	1 day	, , .	Mon 3/7/23		1			
263	Removal of Steel Gate (Friendly Benefit)	9 days	Tue 4/7/23	Wed 12/7/23	262	1			
264	Installation of Dosing Pipe	,	Thu 13/7/23	Fri 21/7/23	263				
265	Testing & Commissioning		Sat 22/7/23	Sun 23/7/23		Ì			
266	Removal of Steel Gate at Culvert Inlet L12 (WOD)	2 days	Mon 15/5/23	Tue 16/5/23	184				
267	Installation of GRP catladder	2 days	Sat 22/7/23	Sun 23/7/23	264	İ			
268	South Chamber (L13)	130 days	Ved 23/11/22	Sat 1/4/23		1			
320	L13 Penstock Chamber	11 days	Sun 11/6/23	Wed 21/6/23		1			
321	Drilled in rebar	7 days	Sun 11/6/23	Sat 17/6/23	245	i			
322	Handover to TDK for installation of Cast-in embedment	1 day	Sun 18/6/23	Sun 18/6/23	321	1			
323	Formwork	2 days	Mon 19/6/23	Tue 20/6/23	322	İ			
324	Concreting	1 dav	Wed 21/6/23	Wed 21/6/23	323	1			



ID		タスク名	期間	開始日	終了日	
	U					2024年01月 2024年02月 2024年03月 上旬中旬下旬 上旬中旬下旬上旬中旬下旬
1		Key Date				
2	=	H/O HRSG Foundation	1日	21/10/01 (金)	21/10/01 (金)	
3	≝	H/O OHC Installation	1日	21/11/01 (月)	21/11/01(月)	
4	=	H/O Condenser foundation	1日	21/12/15 (水)	21/12/15 (水)	
5	≡	H/O Aux. equipment foundation of HRSG north side	1日	21/11/15(月)	21/11/15(月)	
6	=	H/O GT Exhaust duct foundation	1日	22/03/01 (火)	22/03/01 (火)	
7	≡	H/O MSB East side	1日	22/02/15 (火)	22/02/15 (火)	
8	⊞	MSB partial H/O	1日	22/01/15(土)	22/01/15(土)	1
9	=	H/O Foundation around CCW-Cooler	1日	22/02/19 (土)	22/02/19(土)	1
10	⊞	H/O Foundation around Transformer	1日	22/01/15 (土)	22/01/15(土)	1
11	=	MSB Full Access	1日	22/04/15 (金)	22/04/15 (金)	1
12		Delivery date of Powertrains (GT,GEN,ST,GEN Tx)	6日	22/04/28 (木)	22/05/04 (水)	
13	⊞	O/B GT & GEN	1日	22/07/15 (金)	22/07/15(金)	1
14		Power Receiving	1日	22/12/26 (月)	22/12/26(月)	1
15	⊞	H/O Foundation of No5 Intake area	1日	22/11/30 (水)	22/11/30 (水)	1
16	=	Hydrostatic test	10日	23/01/07 (土)	23/01/18 (水)	
17		Beginning Closed cooling water system flushing (Target)	1日	23/02/11 (土)	23/02/11 (土)	1
18	Ħ	Receiving Lube Oil (Target)	1日	23/03/18 (土)	23/03/18 (土)	1
19		Beginning CW system commissioning	1日	23/05/02 (火)	23/05/02 (火)	1
20		Back energization	18	23/06/17 (土)	23/06/19 (月)	1
21		GT First Firing	18	23/00/17 (土)	23/00/19 (月)	1
22		Synchronization	1日	23/08/16 (水)	23/08/16 (水)	.
23	=	TOC date	18	23/12/01 (金)	23/12/01 (金)	
24		122 444		,, (,		
25		HRSG	612日	21/10/01 (金)	23/09/14 (木)	4
26		Make the condition for construction	2日	21/10/01 (金)	21/10/02 (±)	
27		Center line marking	3日	21/10/01 (金)	21/10/04 (月)	
28	_	Chipping	15日	21/10/01 (金)	21/10/18 (月)	
29		Packer setting	10日	21/10/05 (火)	21/10/15 (金)	
30		Lay down Pipes under HRSG	10日	21/10/09 (土)	21/10/20 (水)	
31		Short legs setting	9日	21/10/21 (木)	21/10/30(土)	
32		Prepare for installing Bottom casing	3日	21/10/28 (木)	21/11/01(月)	
33		Lifting and installing Bottom casing	6日	21/11/01 (月)	21/11/06(土)	
34		Welding Short legs and Bottom casing	35日	21/11/08 (月)	21/12/17(金)	1
35		Setting and welding Brace gusset	35日	21/11/08 (月)	21/12/17(金)	1
36		Setting and welding SCR bottom frame	35日	21/11/08 (月)	21/12/17(金)	1
37		Setting FL+2.5m floor structure	17日	21/11/08 (月)	21/11/26(金)	1
38	İ	Putting pipes on bottom casing	10日	21/11/27 (土)	21/12/08 (7k)	1
39		HRSG Blow down tank	2日	21/10/27 (7k)	21/10/29 (金)	1
40		KURE pipe rack (North on HRSG)	40日	21/11/10 (7k)	21/12/25(土)	1
						1
41	Ħ	Insulation and lagging on Bottom casing	17日	21/11/25 (木)	21/12/14 (火)	1
42		Unloading Side casing and Top Casing #1	2日	21/11/17 (水)	21/11/18 (木)	1
43	=	Unloading Side casing and Top Casing #2	1日	22/01/27 (木)	22/01/27 (木)	1
44	F	Lifting and installing Side casing	42日	21/12/10 (金)	22/01/27 (木)	1
45		Lifting and installing Top casing	40日	21/12/28 (火)	22/02/11(金)	{
46		Lifting and installing SCR	2日	22/01/12 (水)	22/01/13 (木)	1
47	-	Suspend lifting work because of delivery condenser	4日	21/12/14 (火)	21/12/17 (金)	1
48	===	Unloading Side casing and Top Casing #3	1日	22/01/28 (金)	22/01/28 (金)	{
49_	==	Lifting and installing Side casing(Delayed 2pcs)	3日	22/02/12 (土)	22/02/15 (火)	4
50		Lifting and installing Top casing	18	22/03/02 (水)	22/03/02 (水)	4
51		Lifting and installing AIG	2日	22/03/03 (木)	22/03/04 (金)	4
52		Installation of piping, header, support, EXP inside HRSG		22/03/05 (土)	22/04/20 (7k)	1
53		Lifting and installing HRSG Inlet duct	2日	22/04/02 (土)	22/04/04 (月)	1
54		Setting FL+29m floor structure (The part of over hang)	55日	22/02/11 (金)	22/04/15(金)	1
55		Lifting Downcomer piping (after pre-assembling)	8日	22/03/18 (金)	22/03/26(土)	
56		Prepare for lifting Tube bundle (Around HRSG)	10日	22/04/11 (月)	22/04/21 (木)	
57		Suspend outside work for transportation of GEN TX	1日	22/04/30 (土)	22/04/30(土)	
58		Prepare unloading Tube bundle (Storage area)	6日	22/04/14 (木)	22/04/20 (7k)	
59	≡	Unloading Tube bundle #1 (3set)	2日	22/04/21 (木)	22/04/22 (金)	1
60		Prepare installing Tube bundle #1 (3set)	2日	22/04/23 (土)	22/04/25 (月)	1
61		Lifting and installing Tube bundle #1 (9set)	4日	22/04/26 (火)	22/04/29 (金)	1
62	⊞	Unloading Tube bundle #2 (6set)	3日	22/05/05 (木)	22/05/07 (土)	
63		Prepare installing Tube bundle #2 (6set)	2日	22/05/09 (月)	22/05/07 (土)	
64		Lifting and installing Tube bundle #2 (6set)	7日	22/05/14 (土)	22/05/21(土)	

TAIH	EI DENG	GYO KAISHA,LTD. Constructio	n Sche	dule of Unit-1	12	
ID	6	タスケ名	期間	開始日	終了日	2024年01月 2024年02月 2024年0
0.5	ĭ					上旬中旬下旬 上旬中旬下旬上旬中旬下
65		Unloading Tube bundle #3 (6set)	3日	22/05/11 (水)	22/05/13 (金)	
66		Prepare installing Tube bundle #3 (6set)	3日	22/05/14 (土)	22/05/17 (火)	
67		Lifting and installing Tube bundle #3 (6set)	7日	22/05/23 (月)	22/05/30(月)	
68		Setting FL+29m floor structure (Above tube bundle)	30日	22/05/07 (土)	22/06/14 (火)	
69		Lifting and setting HP-Drum	1日	22/05/19(木)	22/05/19(木)	
70		Lifting and setting IP-Drum	1日	22/06/11 (土)	22/06/11 (土)	
71		Lifting and setting LP-Drum	1日	22/06/24 (金)	22/06/24(金)	
72		Lifting and installing HRSG Outlet duct	2日	22/06/29 (水)	22/06/30 (木)	
73		1250ton shift to GT Inlet duct	40日	22/07/07 (木)	22/08/22 (月)	
74		Adjusting HDR level (HP)	10日	22/06/25 (土)	22/07/06 (水)	
75		Adjusting HDR level (IP & LP)	15日	22/07/07 (木)	22/07/23(土)	
76	=	Lifing Frame 7,9 and 8	30日	22/05/25 (水)	22/08/31 (7k)	1
77		HRSG roof structure (main beam)	10日	22/08/23 (火)	22/09/02 (金)	1
78		Setting roof structure (Including deferrable structure)	100日	22/08/23 (火)	22/12/16 (金)	1
79		Lifting and setting the silencer of HRSG	5日	22/09/13 (火)	22/09/17(土)	1
80		Assembly accessory inside HRSG	100日	22/11/28 (月)	23/03/23 (木)	1
81	=	Hydrostatic test of HRSG	100		23/01/18 (水)	
82		Excavation the foundation of UTAC (By Civil)	30日	23/01/07 (土) 22/11/10 (木)	22/12/14 (水)	
83	=	Urea to Ammonia conversion system	90日	23/01/19 (木)	23/05/03 (水)	
84	_	Installation the SCR catalyst	20日	23/08/23 (水)	23/09/14 (木)	1
85		installation the 30N Catalyst	2011	23/06/23 (//()	20/00/14 (20)	
86	_	A	10日	21/11/25 (木)	01 /10 /00 / 🖽 \	
	=	Assembly 1250ton C/C			21/12/06 (月)	
87		Disassembly 1250tonC/C	10日	22/09/19 (月)	22/09/29 (木)	
88		Assembly 400tonC/C	5日	22/04/08 (金)	22/04/13 (水)]
89		Disassembly 400tonC/C	4日	22/06/01 (水)	22/06/04 (土)	
90						
91		Lifting and Fitting Pipes (Vertical piping of HRSG)	80日	22/03/03 (木)	22/06/03 (金)	
92		Fitting Pipes (Inside of HRSG / HP)	100日	22/07/16 (土)	22/11/09 (水)	
93		Fitting Pipes (Inside of HRSG / IP,LP)	100日	22/08/03 (水)	22/11/26(土)	1
94		Lifting and hang Pipes (Upper HRSG)	90日	22/07/25 (月)	22/11/05(土)	1
95		Fitting and welding Pipes in range of Hydrostatic	120日	22/07/07 (木)	22/11/23 (水)	1
96		Fitting and welding Pipes out range of Hydrostatic	160日	22/11/01 (火)	23/05/05 (金)	1
97		Insulation work for high temp piping	180日	22/12/05 (月)	23/07/01 (土)	1
98						1
99		Preparing preassembling area for side casings	7日	21/11/08 (月)	21/11/16 (火)	1
100		Preassembly Side casing (2set)	30日	21/11/17 (7k)	21/12/21 (火)	1
101		Preassembly Top casing (LP and IP)	30日	21/11/17 (7k)	21/12/21 (火)	1
102		Installing lugging and attachement to Side casing (2set)	20日	21/12/17 (金)	22/01/08 (±)	
103		Installing lugging and attachement to Side casing (2set)	13日	22/01/28 (金)	22/02/11 (金)	
104		1 11 1	20日		22/01/31 (月)	
		Preassembly Top casing (HP)		22/01/08 (土)		4
105		Prepare for preassemble SCR	3日	21/12/22 (水)	21/12/24 (金)	
106		Preassembly SCR	15日	21/12/25 (土)	22/01/11 (火)	
107		Prepare for preassemble AIG	3日	22/02/07 (月)	22/02/09 (水)	
108		Preassembly AIG	18日	22/02/10 (木)	22/03/02 (水)	1
109		Prepare for preassemble HRSG Inlet duct	4日	22/02/16 (水)	22/02/19(土)	
110		Preassembly HRSG Inlet duct	35日	22/02/21 (月)	22/04/01 (金)	
111		Prepare for preassembly HRSG Outlet duct	7日	22/04/08 (金)	22/04/15(金)	1
112		Preassembly HRSG Outlet duct	40日	22/04/16(土)	22/06/01 (7k)	1
113		Prepare for preasembling Frame 7.9 and 8	5日	22/04/26 (火)	22/05/02(月)	1
114		Preassembling Frame 7.9 and 8	85日	22/05/02 (月)	22/08/08(月)	1
145		HRSG Exhaust duct	171日	22/06/28 (火)	23/01/12 (木)	1
117		Preparation of the foundation	3日	22/06/28 (火)	22/07/01 (金)	1
118		Chipping and setting packers	15日	22/07/01 (金)	22/07/19 (火)	1
119		Building the structure for HRSG exhaust duct	40日	22/07/19 (火)	22/09/02 (金)	1
120		Lifting the exhaust duct	30日	22/09/30 (金)	22/11/03 (木)	1
		Welding each exhaust duct blocks	50日	22/10/24 (月)	22/12/20 (火)	1
121					_	1
122		Insulation work	50日	22/11/16 (水)	23/01/12 (木)	1
123				-		1
124		Preassembling the exhaust duct	60日	22/08/09 (火)	22/10/17 (月)	
125						1
126		Over Head Crane	85日	21/10/15 (金)	22/01/21 (金)	1
127		Check the location of installation	1日	21/11/01 (月)	21/11/01 (月)]
128		Lifting and setting the rail for OHC	30日	21/11/02 (火)	21/12/06(月)]

D		タスク名	期間	開始日	終了日	
						2024年01月 2024年02月 2024年03
	6			(((上旬中旬下旬上旬中旬下旬
129		Prepare for preassembling OHC	5日	21/10/29 (金)	21/11/04(木)	
130		Unloading OHC material Preassembly OHC (Mech & Elec)	25日	21/11/04 (木) 21/11/06 (土)	21/11/06 (土) 21/12/06 (月)	
132	=	Lifting and setting Aux. OHC Garter	2日	21/11/06(土)	21/12/00 (月)	1
133		Lifting and setting Main OHC Garter	2日	21/12/08 (7k)	21/12/09 (木)	1
134	=	Laying temp cable from L11	30日	21/10/15 (金)	21/11/18 (木)	1
135		Installing electrical equipment	15日	21/12/17 (金)	22/01/03 (月)	
136	⊞	Power receiving	1日	22/01/10 (月)	22/01/10(月)	1
137		Commissioning & Load test	10日	22/01/11 (火)	22/01/21 (金)	
138						
139		Condenser	303日	21/12/11 (±)	22/11/29 (火)	
140		Center line marking	2日	21/12/15 (水)	21/12/16(木)	
141		Chipping	6日	21/12/17 (金)	21/12/23 (木)	
142		Setting packer and base plate	4日	21/12/24 (金)	21/12/28 (火)	
143	Ļ	Setting temporary rail and SARLIFT for installation cond	le28日	21/12/17 (金)	22/01/18 (火)	
144		(Load test for SARLIFT)	1日	22/01/18 (火)	22/01/18 (火)	4
145	ļ	Assembling the scaffolding around skirt	15日	21/12/27 (月)	22/01/12 (水)	4
146		Preparation the lifting tool for the skirt	2日	22/01/19 (水)	22/01/20(木)	4
147	-	Assembly the Unit carrier	2日	21/12/11 (土)	21/12/13(月)	4
148		Assembly the 750tonA/C	1日	22/01/21 (金)	22/01/21 (金)	
149	==	Delivery date of condenser(Unloading with 1250ton)	2日	21/12/15 (水)	21/12/16 (木)	
150	┈	Remove packing material	3日	22/01/19 (水)	22/01/21(金)	
151		Installation Upper skirt	2日	22/01/22 (±)	22/01/24 (月)	
152	H	Installation Lower skirt	2日	22/01/25 (火)	22/01/26 (水)	
153	┈	Fit up condenser skirt	3日	22/01/27 (木)	22/01/29 (土)	
154		Assembling and welding skirt Remove rail for condenser skirt	1日	22/01/31 (月) 22/01/27 (木)	22/02/08 (火) 22/01/27 (木)	
155	⊢	Installation Condenser shell of lower	18	22/01/27 (木)	22/01/27 (水)	
156		Installation Condenser shell of upper	18	22/01/29 (土)	22/01/29(土)	
157		Disassembly the 750tonA/C	18	22/01/29 (土)	22/01/29(土)	
159		Dismantling SARLIFT and temporary rail	15日	22/01/31 (月)	22/02/16 (7k)	
160		Assembling the scaffolding around condenser shell	5日	22/02/07 (月)	22/02/11 (金)	1
161		Welding Condenser shell (outside / 1 layer)	5日	22/02/12 (土)	22/02/17 (木)	1
162		Fit up condenser skirt to condenser shell	3日	22/02/18 (金)	22/02/21 (月)	1
163		Installation the monorail of South side	20日	22/02/22 (火)	22/03/16 (7k)	1
164		Installation the condenser water box of South side	4日	22/03/17 (木)	22/03/21 (月)	1
165	⊞	Hand over around condenser to civil working	30日	22/02/18 (金)	22/03/24 (木)	
166	ⅎ	Condenser tube cleaning unit	4日	22/03/25(金)	22/03/29 (火)	1
167		Installation the CW pipe	45日	22/03/25 (金)	22/05/16 (月)	1
168	⊞	Assembling Exp.J connecting to ST	18	22/11/17 (木)	22/11/17(木)	1
169		Welding Exp.J connecting to ST	10日	22/11/18 (金)	22/11/29 (火)	
170						
171		GT/ST/Generator	524日	22/01/12 (水)	23/09/14 (木)	
172		Setting template for anchor bolts	40日	22/01/12 (水)	22/02/28(月)	
173		Concreteing work by PDC/PY	40日	22/02/28 (月)	22/04/15(金)	
174		Remove templates	14日	22/04/15 (金)	22/04/30 (土)	
175		Center line marking	5日	22/05/02 (月)	22/05/06(金)	
176		Chipping	10日	22/05/07 (土)	22/05/18 (水)	
177	L	Packer setting	15日	22/05/19 (木)	22/06/04 (土)	
178	_	Setting the base plate	7日	22/06/06 (月)	22/06/13 (月)	4
179	L	Setting the bearing case	7日	22/06/14 (火)	22/06/21 (火)	4
180	ļ.,	Lay down pipes under GT	18	22/06/22 (水)	22/06/22 (7k)	4
181		Lay down pipes under ST	3日	22/06/23 (木)	22/06/25(土)	4
182	-	IP/LP-MSV Lifting and setting	5日	22/06/18 (土)	22/06/23 (木)	4
183	-	Lifting and hanging EB01	18	22/06/13 (月)	22/06/14 (火)	4
184	-	Unloading the Gantry system for GT	1日	22/06/10 (金)	22/06/11 (土)	4
185	-	Setting the Gantry system for GT	21日	22/06/16 (木)	22/07/11 (月)	4
186	=	Load test for Gantry system	2日	22/07/11 (月)	22/07/13 (水)	<mark>.</mark>
187	F	Delivery date of Powertrains	18	22/04/28 (木)	22/04/28 (木)	
188		Generator Unloaded and store	18	22/04/28 (木)	22/04/28 (木)	
189	-	GT Unloaded and store	18	22/04/29 (金) 22/04/30 (土)	22/04/29 (金) 22/04/30 (土)	
190	-	GEN Transformer O/B	1日	22/04/30 (土)	22/04/30(土)	
191	1	ST Lower casing Unloaded and store (with OHC)		22, 13, 52 (/3)	,, (/ 3/	.

			R7			
ID		タスク名	期間	開始日	終了日	
						2024年01日 2024年02日 2024年03
193	a	ST Lower casing O/B (with OHC)	18	22/07/13 (水)	22/07/13 (水)	2024年01月 2024年02月 2024年03 上旬中旬下旬上旬 中旬下旬上旬中旬下旬
194	-	GT O/B (with Gantry)	1日	22/07/15 (金)	22/07/15 (金)	
195		Setting the Gantry crane for GEN	18	22/07/16 (土)	22/07/16 (土)	4
196		GEN O/B (with Gantry)	1日	22/07/18 (月)	22/07/18 (月)	
	ļ	Dismantling the Gantry system	15日	22/07/19 (火)	22/08/04 (木)	
197	ļ	Lifting and setting ST	31日	22/08/05 (金)	22/09/09 (金)	
198		ST Rotor	18	22/09/10 (土)	22/09/10 (土)	
199		First alignment for ST	50日	22/09/12 (月)	22/11/08 (火)	
200		ST Upper Casing	2日	22/10/05 (7k)	22/10/06 (木)	
201			5日			
202	1	HP-MSV lifting and setting		22/10/07 (金)	22/10/12 (7k)	1
203		Adjust the gap between Rotor and casing	30日	22/10/13 (木)	22/11/16 (7k)	1
204	1	Installing accessories	35日	22/11/17 (木)	22/12/27 (火)	1
205	İ	Installing IPB	60日	22/09/12 (月)	22/11/19(土)	1
206		First alignment of GT and GEN	50日	22/07/16 (土)	22/09/12(月)	1
207		GT enclosure (Lower)	20日	22/09/13 (火)	22/10/05 (水)	1
208		Installting pipes and accessories to GT	190日	22/10/24 (月)	23/06/01 (木)	1
209		Assembly slip ring, lead box and accessories to GEN	28日	22/10/05 (水)	22/11/05(土)	1
210	-	Assembly 3S clutch	20日	22/11/09 (水)	22/12/01 (木)	1
211		Final alignment	30日	22/12/28 (水)	23/01/31 (火)	
212	-	Joint coupling	10日	23/02/01 (7K)	23/02/11 (土)	
	-	Seal oil & Lube oil flushing	90日	23/03/18 (±)	23/06/30 (金)	
213		Installation GT enclosure	40日	22/12/21 (水)	23/02/04 (土)	
214		Installation ST enclosure	50日	22/12/28 (7 <u>k</u>)	23/02/23 (木)	
215		Door fan test	2日	23/06/14 (7k)	23/06/15 (木)	
216		Blowing out	10日	23/06/28 (7k)	23/07/08 (土)	
217		First Fire	18	23/07/17 (月)	23/07/17 (月)	
218		Synchronization	18	23/08/16 (水)	23/08/16 (水)	
219		Remove temporary strainer	20日	23/08/23 (7k)	23/09/14 (木)	
220		Tomore comporary occasion		,, (, , , ,		
221						1
222		GT Air inlet	365日	22/05/10 (火)	23/07/10 (月)	1
223		Center line marking	2日	22/06/23 (木)	22/06/25 (土)	1
224		Setting the base plate	10日	22/06/25 (土)	22/07/07 (木)	1
225	=	Preassembly the Air inlet duct	80日	22/05/10 (火)	22/08/10 (7k)	1
226	F	Lifting and installation the Air inlet duct (Vertical)	40日	22/07/07 (木)	22/08/22 (月)	1
227	Ħ	Welding Air inlet duct (Vertical)	50日	22/07/19 (火)	22/09/14 (水)	1
228	F	Lifting and installation the Air inlet filter	60日	22/09/15 (木)	22/11/23 (7k)	
	-	Welding Air inlet filter	70日	22/09/27 (火)	22/12/16 (金)	
229	-	Lifting and assembly the Air inlet manifold	4日	22/09/08 (木)	22/09/13 (火)	4
230		Lifting and installation the Air inlet duct (Horizontal)				
231			8日	22/09/13 (火)	22/09/21 (水)	
232		Automatic roller shutter	2日	22/09/22 (木)	22/09/23 (金)	
233		Welding Air inlet duct (Horizontal)	25日	22/09/22 (木)	22/10/20(木)	
234	=	Filter element installation	5日	23/07/04 (火)	23/07/10(月)	
235						
236		Auxiliary Equipment (O/B)	463日?	21/11/10 (水)	23/05/03 (水)	1
237	1	1&3 around Power Train & North east of MSB	205日	22/01/15 (±)	22/09/10 (±)	1
238		Chipping and packer setting	10日	22/01/15 (土)	22/01/26 (水)	1
239	1	Seal oil unit	2日	22/06/01 (水)	22/06/03 (金)	1
240		H2 cooler	2日	22/06/03 (金)	22/06/06(月)	1
241		Platform under the GEN	5日	22/06/06 (月)	22/06/11 (土)	1
242	-	Temp hanging Main Steam Piping with scaffolding	25日	22/02/11 (金)	22/03/11 (金)	1
243		Sampling system	2日	22/02/02 (水)	22/02/03 (木)	
244	-	Light oil drain unit	2日	22/02/04 (金)	22/02/05 (土)	
	-	GT purge air compressor	2日	22/02/07 (月)	22/02/08 (火)	
245		GT purge air reservoir	2日	22/02/09 (7k)	22/02/10 (木)	
246			2日	22/02/09 (水)	22/02/10(木)	4
247		Light oil flow divider unit & platform				
248		GT Purge air unit	2日	22/09/01 (木)	22/09/02 (金)	
249		Fuel gas unit	2日	22/09/09 (金)	22/09/10(土)	
250						1
251		2 MSB Inside North-West	265日?	22/01/15 (土)	22/11/19 (±)	1
252		Temporary floor above ST Blowdown tank	15日	22/01/15 (土)	22/02/01 (火)	1
253		Chipping and packer setting	10日	22/01/27 (木)	22/02/07 (月)	1
	_		_			4
		Preparation hauling equipment	4日	22/02/11(金)	22/02/15(火)	
254		Preparation hauling equipment Condenser water box		22/02/11 (金) 22/02/16 (水)		
		Preparation hauling equipment Condenser water box Closed cooling water pump	4日 3日 2日	22/02/11 (金) 22/02/16 (水) 22/02/19 (土)	22/02/15 (火) 22/02/18 (金) 22/02/21 (月)	

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ID		タスク名	期間	開始日	終了日	
	U					2024年01月 2024年02月 2024年03月 旬中旬下旬 旬中旬下旬 旬中旬下旬
257	_	Condenser vacuum pump	2日	22/02/22 (火)	22/02/23 (7k)	
258		Dismantling hauling equipment	2日	22/02/24 (木)	22/02/25(金)	1
259		ST blow down tank	1日	22/02/24 (木)	22/02/24 (木)	1
260		GT casing cooling fan	1日	22/02/25 (金)	22/02/25 (金)	1
261		GT compressor blade washing device	1日	22/02/26(土)	22/02/26(土)	1
262	•	Building MSB North structure	40日	22/04/15 (金)	22/05/31 (火)	1
263		ST Blow down tank structure	20日	22/04/30(土)	22/05/23(月)	1
264	⊞	Pre-assembly structure for Air inlet duct access	30日	22/05/03 (火)	22/06/07 (火)	1
265		Building structure for Air inlet duct access	2日	22/06/07 (火)	22/06/08 (水)	1
266		Closed cooling water stand pipe	10日	22/06/09 (木)	22/06/20(月)	1
267		Installing IPB	60日	22/09/12 (月)	22/11/19(土)	1
268		ST Blowdown pit sump pump	2日	22/02/24 (木)	22/02/25 (金)	1
269						1
270		6 MSB Inside South-West	183日	22/03/12 (土)	22/10/11 (火)	1
271		Chipping and packer setting	10日	22/03/12 (土)	22/03/23 (水)	1
272	=	Condensate extraction pump	2日	22/03/24 (木)	22/03/25(金)	1
273		CEP access stair	1日	22/03/24 (木)	22/03/24 (木)	1
274		Trip valve unit	1日	22/03/25 (金)	22/03/25 (金)	1
275	≡	Control oil unit	1日	22/03/25 (金)	22/03/25 (金)	1
276	٠	Building MSB South structure	25日	22/05/09 (月)	22/06/06(月)	1
277	•	Gland condenser and fan	1日	22/05/26 (木)	22/05/26 (木)	1
278		Plant and Instrument air receiver	2日	22/10/07 (金)	22/10/08 (土)	1
279	=	Plant air compressor	2日	22/10/07 (金)	22/10/08 (土)	1
280		Instrument air dryer	2日	22/10/10 (月)	22/10/11 (火)	1
281		CEP pit sump pump	2日	22/03/26(土)	22/03/28 (月)	1
282		Condenser hotwell pit sump pump	2日	22/03/29 (火)	22/03/30 (水)	1
283						1
284		7 Lube oil room	301日	22/03/01 (火)	23/02/14 (火)	1
285		Chipping and packer setting	10日	22/03/01 (火)	22/03/11 (金)	1
286		Disassemble structure	1日	22/03/12 (土)	22/03/12 (土)	1
287	=	Lube oil reservoir	1日	22/03/14 (月)	22/03/14(月)	1
288		Assemble structure	1日	22/03/14 (月)	22/03/14 (月)	
289	-	Open floor	15日	22/03/12 (土)	22/03/29 (火)	
290		Lube oil filter with structure	2日	22/03/15 (火)	22/03/16 (水)	
291	H	Lube oil cooler	18	22/03/15 (火)	22/03/15 (火)	
292		JOP for GEN	2日	22/03/17 (木)	22/03/18 (金)	
293		JOP for ST	2日	22/03/17 (木)	22/03/18 (金)	
294	-	Lube oil purifier unit	2日	22/03/17 (木)	22/03/18 (金)	
295		Lube oil transfer pump	2日	22/03/17 (木)	22/03/18 (金)	
296	-	Lube oil accumulator	1日	22/03/17 (木)	22/03/17 (木)	
	-	Lifting piping into Lube oil room	20日	22/03/18 (金)	22/04/09 (土)	
297		TCA filter	18	22/09/12 (月)	22/09/12 (月)	1
298	=	TCA filter support	8日	23/02/06 (月)	23/02/14 (火)	1
	-	, o, t incar support	-			
300	-			((-)	((-)	
301	-	9 East of MSB	151日	22/02/15 (火)	22/08/09 (火)	
302	-	Chipping and packer setting	15日	22/02/15 (火)	22/03/03 (木)	4
303	#	Light Oil main pump unit	2日	22/03/04 (金)	22/03/05 (土)	4
304	==	GT light oil last chance filter	2日	22/03/07 (月)	22/03/08 (火)	4
305	=	GT light oil drain tank unit	2日	22/03/09 (水)	22/03/10 (木)	4
306		GT fuel gas flow meter	2日	22/03/11 (金)	22/03/12 (土)	4
307		Pipe rack from L11 to L12 (except around EB02)	60日	22/02/26 (土)	22/05/06 (金)	4
308		Temp hanging Main Steam Piping	15日	22/05/07 (土)	22/05/24 (火)	1
309	≖	Building structure for EB02	6日	22/04/14 (木)	22/04/20 (7k)	1
310	≡	Preassembly EB02	20日	22/03/29 (火)	22/04/21 (木)	1
311		Lifting and installation EB02	2日	22/04/21 (木)	22/04/22 (金)]
312		Sound proof around EB02	20日	22/05/07(土)	22/05/30(月)]
313		Pipe rack from L11 to L12 (Above EB02)	30日	22/05/31 (火)	22/07/04 (月)]
314		GT enclosure ventilation fan	2日	22/08/05 (金)	22/08/06 (土)	1
315	≡	Oil mist separator unit	2日	22/08/08 (月)	22/08/09 (火)	1
316		Oily drain pit sump pump	2日	22/02/24 (木)	22/02/26 (土)	1
317		Chemical drain pit sump pump	2日	22/02/24 (木)	22/02/26 (土)	1
		pre samp pamp				1
318		10 North of HPSC	SEE LI	21 /11 /10 (土)	22/12/20 (土)	1
319		10 North of HRSG	355日	21/11/10 (水)	22/12/28 (水)	1
	1	KURE pipe rack (North on HRSG)	40日	21/11/10 (水)	21/12/25(土)	

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)		タスク名	期間	開始日	終了日	
	e					2024年01月 2024年02月 2024年03 上旬中旬下旬上旬中旬下旬上旬中旬下
321		Chipping and packer setting	15日	21/11/16 (火)	21/12/02 (木)	
322		Lower Fuel gas heater	2日	21/12/03 (金)	21/12/04 (土)	
323		Support structure for FGH	5日	21/12/06 (月)	21/12/10(金)	
324	Ħ	Upper Fuel gas Heater	2日	21/12/11 (土)	21/12/13(月)	
325		GT water injection system	2日	21/12/14 (火)	21/12/15 (水)	
326	Ħ	Feed water pump	2日	21/12/16 (木)	21/12/17 (金)	
327		Chemical dosing system	2日	21/12/18 (土)	21/12/20(月)	
328		FWP sun shade	50日	21/12/27 (月)	22/02/22 (火)	
329		FGH Maintenance platform	15日	22/01/31 (月)	22/02/16 (水)	
330	≞	Reserved feed water tank	2日	22/01/31 (月)	22/02/01 (火)	
331		HRSG Topping up pump	1日	22/02/02 (7K)	22/02/02 (7k)	
332	L	LP-ECO Recirculation pump	2日	22/06/25 (土)	22/06/27 (月)	
333	L	Dry air system for HRSG	2日	22/06/25 (土)	22/06/27 (月)	
334	=	HRSG blowdown pit sump pump	2日	22/01/15 (土)	22/01/17 (月)	
335	L	HRSG Washing water sump pump	2日	22/12/27 (火)	22/12/28 (水)	
336		10 00W	F0.7	00/00/07/11	00/05/05/	
337		12 CCW cooler area	59日	22/02/26 (±)	22/05/05 (木)	[
338	≡	Chipping and packer setting	10日	22/02/26 (土)	22/03/09 (水)	[
339	≡	Sea water booster pump	4日	22/03/10 (木)	22/03/14 (月)	
340	≝	CW vent pump and seal water booster	4日	22/03/10 (木)	22/03/14 (月)	
341	=	CCW cooler	4日	22/03/10 (木)	22/03/14(月)	
342	▦	CCW cooler sun shade	25日	22/04/07 (木)	22/05/05 (木)	
343		Sea water sump pump	4日	22/03/16 (水)	22/03/19(土)	
344	L					
345	Ħ	TCA cooler	2日	22/08/23 (火)	22/08/24 (水)	
346	=	Dismantle the temporary slope at south side of HRSG	30日	22/11/10 (木)	22/12/14 (水)	
347	L	CO2 Fire fighting	50日	22/12/15 (木)	23/02/10(金)	
348	≝	UTAC system	90日	23/01/19 (木)	23/05/03 (水)	
349	L	Preassembly silencer structure at MSB roof	15日	22/08/02 (火)	22/08/19(金)	.
350	L	Silencer at MSB roof	3日	22/08/19 (金)	22/08/22(月)	
351	=	LPS to LMX LO transfer pump for U-12 (if necessary)	2日	22/10/01 (土)	22/10/03(月)	
352	Ļ					
353		Intake No5 area	195日?	22/12/01 (木)	23/07/15 (±)	
354	L	Marking center line	10日	22/12/01 (木)	22/12/13 (火)	
355	L	Chipping and packer setting	20日	22/12/13 (火)	23/01/05(木)	.
356		Setting the baseplate	15日	23/01/05 (木)	23/01/23(月)	
357	Ļ	Grouting	25日	23/01/23 (月)	23/02/21 (火)	.
358		Circulating water pump	25日	23/02/21 (火)	23/03/21 (火)	
359	L	Circulating water pump outlet piping	35日	23/03/22 (水)	23/05/01 (月)	
360	L	Auxiliary circulation water pump	12日	23/02/22 (水)	23/03/07 (火)	
361		Electro chlorination plant	90日	23/01/05 (木)	23/04/19 (水)	
362	L	Cathodic protection	10日	23/04/20 (木)	23/05/01(月)	
363		Screen system	15日	23/01/05 (木)	23/01/21 (土)	
364	L	Screen wash water pump	2日	23/03/08 (7k)	23/03/09 (木)	
365	L	CW system commissioning (Target)	65日	23/05/02 (火)	23/07/15 (土)	
366						
367	L	New Gantry crane for CW pump	85日	23/07/17 (月)	23/10/23 (月)	.
368	=	Assembling New gantry crane	45日	23/07/17 (月)	23/09/06 (7k)	
369	L	Test operate for New gantry crane	40日	23/09/07 (木)	23/10/23 (月)	
370	L					
371		11 Tranceformer area	363日?	22/01/17 (月)	23/03/15 (水)	
372	L	Preparation work in the area	5日	22/01/17(月)	22/01/21 (金)	
373		Setting the channel base for Station TX	25日	22/01/17(月)	22/02/14(月)	
374		Setting the channel base for Unit TX and others Txs	25日	22/02/09 (7k)	22/03/09 (水)	[
375		Station transformer O/B	2日	22/03/10 (木)	22/03/11 (金)	
376		Assembly Station Tx	50日	22/03/12 (土)	22/05/09 (月)	[
377		Unit transformer O/B	2日	22/03/10 (木)	22/03/11 (金)	[
378		Assembly Unit Tx	50日	22/04/22 (金)	22/06/18 (土)	
379	≡	SFC transformer O/B	2日	22/04/01 (金)	22/04/02 (土)	.
380		Excitation transformer O/B	2日	22/03/10 (木)	22/03/11 (金)	
381		Assembly the accessories for small TXs	7日	22/06/02 (木)	22/06/09 (木)	.
382		Making flat the ground around TX area by Civil	17日	22/03/12 (土)	22/03/31 (木)	.
	1	Setting the channel base for Generator transformer	28日	22/02/26 (土)	22/03/30 (水)	
383		Preparation for Generator transformer O/B by LM	5日	22/04/25 (月)	22/04/30 (土)	

Appendix J	

10	_	15257	R7		168-7-5	
ID		タスク名	期間	開始日	終了日	2024年01日 2024年02日 2024年22
385	a	Generator transformer O/B	5日	22/04/30 (±)	22/05/05 (木)	2024年01月 2024年02月 2024年03 上旬中旬下旬上旬中旬下旬上旬中旬下旬
386		Assembly the accessories for GEN TXs	70日	22/04/30 (主)	22/05/05 (木)	
387	H	Assembly the support for IPB and Busduct(Gen, Unit)	20日	22/06/20 (月)	22/07/12 (火)	
388	-	Assembly IPB and Busduct (Gen, Unit)	60日	22/07/27 (水)	22/10/04 (火)	
389	H	Filling 275kV cable box with oil (St Tx & GEN Tx)	50日	22/08/02 (火)	22/09/28 (7k)	
390	=	Installation of Cable tray in TX and CCW-C area	25日	22/07/01 (金)	22/07/29 (金)	
391		Power receiving	1日	22/12/26 (月)	22/12/26 (月)	
392	⊞	Building Sun Shade by civil (HOLD/Tentativity)	90日	22/12/01 (木)	23/03/15 (7k)	1
393						
394		Electric & Instrument	403日	22/03/15 (火)	23/06/27 (火)	
395		Handover date	172日	22/03/15 (火)	22/09/30 (金)	
396	≡	Electrical room 1/F - 3/F	1日	22/04/11 (月)	22/04/11 (月)	
397	⊞	Electrical room 4/F	1日	22/05/10 (火)	22/05/10 (火)	
398	≖	Electrical room 5/F	1日	22/05/16 (月)	22/05/16 (月)	
399	⊞	Electrical room 6/F	1日	22/04/19 (火)	22/04/19 (火)	
400	Ħ	Link bridge	1日	22/05/02 (月)	22/05/02 (月)	
401	≡	HRSG Electrical room (HOLD/Tentativity)	1日	22/03/15 (火)	22/03/15 (火)]
402	⊞	No5 Intake equipment room (HOLD/Tentativity)	1日	22/09/30(金)	22/09/30(金)]
403	Ħ	Pipe rack around No5 Intake	1日	22/08/31 (水)	22/08/31 (7K)	1
404	⊞	Pipe rack from Chimney to No5 Intake	1日	22/06/30 (木)	22/06/30(木)	1
405	⋾	CCR3 access	1日	22/06/01 (水) 22/04/11 (月)	22/06/01 (水) 23/06/27 (火)	
406		Electrical room in MSB				1
407		Installation of equipment	107日	22/04/11 (月)	22/08/12 (金)	1
408		Installation of Panels on 1/F - 3F	80日	22/04/11 (月)	22/07/12 (火)	1
409		Installation of Panels, Battery and UCS etc on 4/F	95日	22/04/25 (月)	22/08/12 (金)	1
410		Installation of Exitation System Panel	20日	22/06/20 (月)	22/07/12 (火)	1
411		Installation of SFC panel	20日	22/06/20 (月)	22/07/12 (火)	1
412		Installation of GMCB	43日	22/06/11 (土)	22/07/30 (土)	1
413		IPB & Busduct	231日	22/04/12 (火)	23/01/05 (木)	1
414		IPB in electrical room inside (Indoor)	40日	22/05/28 (土)	22/07/13 (7k)	1
415		Busduct for Station TX and Unit TX (Indoor)	30日	22/07/13 (7k)	22/08/16 (火)	1
416		Welding IPB	100日	22/09/12 (月)	23/01/05 (木)	1
417	≡	Installation of Cable tray	135日	22/04/12 (火)	22/09/15 (木)	1
418	F	Cable tray	180日	22/04/11 (月)	22/11/05 (土)	1
419		MSB Electrical room	180日	22/04/11 (月)	22/11/05 (土)	1
420		Cabling	261日	22/08/27 (土)	23/06/27 (火)	1
421	=	in MSB for UPS / Battery	30日	22/09/27 (火)	22/10/31 (月)	1
422		in MSB Electrical room	120日	22/10/08 (±)	23/02/24 (金)	1
423	=	to Exisiting area	131日		23/02/24 (並)	1
				22/08/27 (土)		1
424	=	to MSB local	182日	22/11/28 (月)	23/06/27 (火)	
425	F	to HRSG ER	50日	22/11/28 (月)	23/01/24 (火)	1
426	-	to HRSG local	158日	22/12/26 (月)	23/06/27 (火)	1
427	Ħ	to CCR3	45日	22/10/08 (土)	22/11/29 (火)	1
428	= -	to CWP ER	50日	23/01/27 (金)	23/03/25(土)	1
429	F	to TX area	50日	23/02/27 (月)	23/04/25 (火)	1
430	-	MSB	293日	22/05/03 (火)	23/04/08 (土)	1
431	-	Installation of equipment	228日	22/07/18 (月)	23/04/08 (土)	1
432		Generator O/B	1日	22/07/18 (月)	22/07/18(月)	
433	ļ	Ass'y Generator Bushing CT	20日	22/09/12 (月)	22/10/04 (火)	4
434		Ass'y Generator Neutral Grounding Resistor Cubic	25日	22/09/29 (木)	22/10/27 (木)	
435	Ļ	Excitation AC/DC Busduct	75日	23/01/12 (木)	23/04/08(土)	
436	Ħ	Generator Monitoring System	1日	23/03/02 (木)	23/03/02 (木)	
437		IPB & Busduct	100日	22/09/12 (月)	23/01/05 (木)	
438		IPB in MSB (Indoor)	60日	22/09/12 (月)	22/11/19(土)	
439		Welding IPB	100日	22/09/12 (月)	23/01/05 (木)	
440		Cable tray	206日	22/05/03 (火)	22/12/28 (水)	
441	⊞	Northside of MSB	130日	22/07/01 (金)	22/11/29 (火)	
442		MSB south	90日	22/09/15 (木)	22/12/28 (7k)]
443		Stage along MSB south side	55日	22/07/14 (木)	22/09/15 (木)	1
444		L11 rink bridge	26日	22/05/03 (火)	22/06/01 (7k)	1
445		Exposed conduit piping	205日	22/08/01 (月)	23/03/27 (月)	1
446		MSB Local	190日	22/08/01 (月)	23/03/27(月)	1
	=					1
447		GT / ST / GEN	130日	22/10/15 (土)	23/03/15 (水)	1
448	$\overline{}$	Local control panels	140日	22/10/15 (土)	23/03/27 (月)	

TAIHEI	DENG	YO KAISHA,LTD. Constructio	n Sched	lule of Unit-1	12	
ID		タスク名	期間	開始日	終了日	
	U					2024年01月 2024年02月 2024年03 上旬中旬下旬上旬中旬下旬上旬中旬下
449		Cabling	65日	23/01/02 (月)	23/03/17(金)	
450	Ħ	GT / ST / GEN	65日	23/01/02 (月)	23/03/17(金)	1
451		HRSG	381日	22/03/16 (水)	23/06/02 (金)	1
452		Installation of equipment	301日	22/03/16 (水)	23/03/01 (7k)	1
453		Panel installation in HRSG Electrical room	100日	22/03/16 (7k)	22/07/09(土)	1
454		Gas Analyszer Panel	25日	23/02/01 (7k)	23/03/01 (水)	1
455		Cable tray	127日	22/10/01 (土)	23/02/25(土)	1
456	⊞	HRSG North	75日	22/10/01 (土)	22/12/27 (火)	1
457		HRSG South	55日	22/11/17 (木)	23/01/19 (木)	1
458		HRSG Top/Vertical Shaft	55日	22/10/13 (木)	22/12/15 (木)	1
459	=	under exhaust duct and in stack	75日	22/12/01 (木)	23/02/25 (土)	1
460		Exposed conduit	174日	22/10/15 (土)	23/05/05 (金)	1
461	=	HRSG Local	160日	22/11/01 (火)	23/05/05 (金)	
462		Exhaust duct / Chimney	60日	23/02/01 (7k)	23/04/11 (火)	1
463		Local control panels	140日	22/10/15 (土)	23/03/27 (月)	
464		Cabling	210日	22/10/01 (±)	23/06/02 (金)	
465		HRSG Electrical room	25日	22/10/01 (±)	22/10/29 (土)	
	-	HRSG ER - Local		-		4
466			60日	23/02/01 (7k)	23/04/11 (火)	.
467		UTAC / CO2 / Others	50日	23/04/06 (木)	23/06/02 (金)	
468	_	No5 Intake	118日	22/10/01 (±)	23/02/15 (水)	
469		Installation of equipment	60日	22/10/01 (土)	22/12/09 (金)	
470		Panel installation in No5 Intake equipment room	60日	22/10/01 (土)	22/12/09 (金)	
471		Cable tray	61日	22/10/19 (水)	22/12/28 (水)	
472		Pipe rack to CW line	50日	22/11/01 (火)	22/12/28 (水)	
473		No5 Equipment room	60日	22/10/19 (7k)	22/12/27 (火)	
474		Exposed conducit	100日	22/10/10 (月)	23/02/02 (木)	
475	=	CW Intake local	100日	22/10/10 (月)	23/02/02 (木)	
476		Cabling	80日	22/11/15 (火)	23/02/15 (水)	1
477		No5 CWP Equipment room	25日	22/11/23 (7k)	22/12/21 (水)	1
478		CWP ER - Local	80日	22/11/15 (火)	23/02/15 (7K)	1
479		CCR3	172日	22/04/12 (火)	22/10/28 (金)	1
480		Installation of equipment	128日	22/06/02 (木)	22/10/28 (金)	1
481		Equipment installation in CCR3	90日	22/06/02 (木)	22/10/28 (金)	1
482		Cable tray	80日	22/04/12 (火)	22/07/13 (水)	1
483		CCR3 & CCR3 to L12 MSB	80日	22/04/12 (火)	22/07/13 (7k)	1
484		Cabling	30日	22/08/24 (7k)	22/09/27 (火)	1
485	=	CCR3	30日	22/08/24 (水)	22/09/27(火)	1
		Termination / Connection	_			
486 487	=	for Power Receiving	277日	22/07/01 (金) 22/08/01 (月)	23/05/19 (金) 22/12/30 (金)	
	=		-			-
488	_	MSB Electrical room (P to P)	260日	22/07/01 (金)	23/04/29 (土)	
489	==	HRSG Eletrical room (P to P)	15日	22/10/01 (土)	22/10/18 (火)	.
490	=	No5 CWP Equipment room	55日	22/10/01 (土)	22/12/03 (土)	4
491	==	CCR3	55日	22/08/15 (月)	22/10/17(月)	
492	=	MSB local	150日	22/11/15 (火)	23/05/08(月)	
493	=	HRSG local	80日	23/02/16 (木)	23/05/19(金)	
494	==	No5 Intake area	55日	23/02/02 (木)	23/04/06 (木)	
495	▦	GT / ST / GEN	55日	23/03/15 (水)	23/05/17 (7K)	
496		Instrument	221日	22/08/01 (月)	23/04/14 (金)	
497	≡	Local instrument panel & Stanchion	184日	22/09/01 (木)	23/04/03(月)	
498	⊞	Cariblation & Mount on Instrument equipment	220日	22/08/01 (月)	23/04/13 (木)	1
499	=	Supply Air Piping	130日	22/11/15 (火)	23/04/14 (金)	1
500	⊞	Instrument Piping & Tubing	130日	22/11/15 (火)	23/04/14 (金)	1
501						1
502		Piping	436日	22/03/01 (火)	23/07/21 (金)	1
503		Main Piping	188日	22/06/01 (水)	23/01/05 (木)	1
504	=	Around HRSG	100日	22/07/07 (木)	22/10/31 (月)	1
505	⊞	North side of MSB	120日	22/06/01 (水)	22/10/18 (火)	1
	=	South side of MCD (-			1
506	=	South side of MSB (around gland condenser)	120日	22/06/07 (火)	22/10/24 (月)	1
507		Lead piping	50日	22/11/09 (水)	23/01/05 (木)	<mark>1</mark>
508	=	BOP for lube oil and cooling	407日	22/03/01 (火)	23/06/17 (±)	1
509	= ==	North side of MSB (around CCW)	290日	22/03/01 (火)	23/02/01 (7k)	1
510	_	South side of MSB (around Lube oil reservoir)	290日	22/04/04 (月)	23/03/07 (火)	1
511	==	Piping in GT Enclosure	190日	22/11/09 (水)	23/06/17(土)	1
512	<u></u>	Others BOP	350日	22/05/07 (±)	23/06/19 (月)	

IAINEI	DLING	YO KAISHA,LTD. Construction	on Sched R7	ule of Unit-1	1.2	
ID		タスク名	期間	開始日	終了日	
						2024年01日 2024年02日 2024年03日
513	<u> </u>	Others BOP	350日	22/05/07 (土)	23/06/19 (月)	2024年01月 2024年02月 2024年03月 上旬中旬下旬上旬中旬下旬上旬中旬下旬
514	=	Assembly the blowing out piping	50日	23/05/25 (木)	23/07/21 (金)	1
515						1
516		Crane	579日	21/10/01 (金)	23/08/07 (月)	1
517	⊞	Assembly 1250C/C	10日	21/11/25 (木)	21/12/06(月)	1
518	İ	Operate 1250tonC/C for TOHC	8日	21/12/06 (月)	21/12/14 (火)	1
519	≡	Operate 1250tonC/C for HRSG	168日	21/12/15 (水)	22/06/28 (火)	1
520		Operate 1250tonC/C for GT Air inlet	40日	22/07/07 (木)	22/08/22(月)	
521		Operate 1250tonC/C for HRSG structures	22日	22/08/23 (火)	22/09/17(土)	
522		Dismantling 1250tonC/C	10日	22/09/19 (月)	22/09/29 (木)	
523		Assembly 400tonC/C	5日	22/04/08 (金)	22/04/13 (水)	
524		Operate 400tonC/C	41日	22/04/14 (木)	22/05/31 (火)	
525		Dismantling 400tonC/C	48	22/06/01 (水)	22/06/04 (±)	
526		Assembly 750tonA/C for Condenser	18	22/01/21 (金)	22/01/21 (金)	
527	<u> </u>	Operate 750tonA/C for Condenser	7日	22/01/21(金)	22/01/28 (金)	4
528 529		Dismantling 750tonA/C for Condenser 250ton A/C (HRSG and HRSG exhaust)	1日 490日	22/01/29 (土) 21/10/01 (金)	22/01/29 (土) 23/04/25 (火)	4
530	_	250ton A/C (HRSG and HRSG exhaust) 220tonA/C (Unloading & CWP)	490日	21/10/01(金)	23/04/25 (火)	4
531	≝	220tonA/C (GT Inlet duct)	60日	22/09/09 (金)	22/11/17 (木)	4
532	_	120tonA/C (Unloading & UTAC)	500日	22/03/03 (並)	23/08/07 (月)	4
533	≝	12000 V C (Sinodanig & C IVIC)	000 H	LE/ 01/ 01 (12)	20, 00, 0, (71)	4
		Environment for heavy lifting	202 🗆	21/12/12 (日)	22/09/04 (+)	
534	-	Equipment for heavy lifting SARLIFT	53日	21/12/13 (月) 21/12/17 (金)	22/08/04 (木) 22/02/16 (水)	
535	-	Assembly the rail for SARLIFT	20日	21/12/17 (金)	22/01/08 (土)	
536	-	Assembly the SARLIFT proper	18日	22/01/10 (月)	22/01/29 (土)	
537	-	Dismantling the SARLIFT	15日	22/01/31 (月)	22/02/16 (水)	
539		Gantry system	43日	22/06/16 (木)	22/08/04 (木)	
540	╢	Assembly the Gantry for powertrain	21日	22/06/16 (木)	22/07/09 (土)	
541		Disassembly the Gantry	15日	22/07/19 (火)	22/08/04 (木)	
542		Unit carrier	189日	21/12/13 (月)	22/07/20 (水)	
543		For Condenser	5日	21/12/13 (月)	21/12/17 (金)	1
544		Preparation for transportation the Condenser	2日	21/12/13 (月)	21/12/15 (水)	1
545		Transportation the Condenser	2日	21/12/15 (水)	21/12/16 (木)	1
546		Disassembling Unit carrier	18	21/12/17(金)	21/12/17(金)	1
547		For Tube bundle #1	6日	22/04/19 (火)	22/04/25 (月)	1
548	İ	Assembling Unit carrier for Tube Bundle	2日	22/04/19 (火)	22/04/21 (木)	1
549		Transportation the Tube Bundle part1	3日	22/04/21 (木)	22/04/23 (土)	1
550	İ	Disassembling Unit carrier	18	22/04/25 (月)	22/04/25 (月)	1
551		For Tube bundle #2	5日	22/05/04 (水) 22/05/04 (水)	22/05/09 (月)	
552		Assembling Unit carrier for Tube Bundle Transportation the Tube Bundle part2	3日	22/05/04 (水)	22/05/05 (木) 22/05/07 (土)	
553		Disassembling Unit carrier	18	22/05/09 (月)		
554		For Tube bundle #3	8日	22/05/09 (月)	22/05/09 (月)	
555		Assembling Unit carrier for Tube Bundle	2日	22/05/09 (月)	22/05/11 (水)	
556		Transportation the Tube Bundle part2	5日	22/05/11 (7k)	22/05/16 (月)	
557 558		Disassembling Unit carrier	18	22/05/17 (火)	22/05/17 (火)	
559		For Unloading Powertrains	9日	22/04/25 (月)	22/05/04 (水)	
		Assembling Unit carrier for Power Train	2日	22/04/25 (月)	22/04/26 (火)	
560 561		Transportation the Transformer	1日	22/04/30 (土)	22/04/30(土)	<u> </u>
562	_	Transportation the ST lower casing	18	22/05/02 (月)	22/05/02 (月)	
563		Transportation the Generator for storing	18	22/04/28 (木)	22/04/28 (木)	.
564		Transportation the Gas Turbine for storing	18	22/04/29 (金)	22/04/29 (金)	
565	_	Disassembling the Unit carrier	2日	22/05/03 (火)	22/05/04 (水)	
566		For Installation of GT and GEN	7日	22/07/13 (水)	22/07/20 (水)	
567		Assembling Unit carrier for Power Train	2日	22/07/13 (大)	22/07/15 (金)	4
568		Transportation the Gas Turbine for storing	18	22/07/15 (金)	22/07/15 (金)	4
569	-	Transportation the Generator for storing	1日	22/07/18 (月)	22/07/18 (月)	4
570	-	Transportation the ST lower casing	18	22/07/13 (水)	22/07/13 (水)	4
571		Disassembling the Unit carrier	2日	22/07/19 (火)	22/07/20 (水)	4
		I				

Appendix J

Monthly Waste Flow Table for December 2023

Lamma Power Station Extension Civil and Building Works for Unit L12

Paul Y. Construction Company, Limited

Ben Lam Record by: Year of Record: 2020, 2021, 2022 & 2023

MM.YYYY		Act	ual Quanti	ntities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Materials Generated Monthly						
	Exca	avated Mate	erials	Non-excavated Materials												
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) (1)	Metals (aluminum can) (1)	Paper / cardboard packaging (1)	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)	(in '000kg)	
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jan 2021	0.00	0.00	21020.16	0.00	0.00	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00	0.00	0.00	
Feb 2021	0.00	0.00	18083.97	0.00	0.00	0.00	0.00	0.00	18.25	0.00	0.25	0.00	0.00	0.00	0.00	
Mar 2021	0.00	0.00	9048.21	0.00	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00	0.00	2.61	
Apr 2021	0.00	0.00	3205.15	0.00	0.00	0.00	0.00	0.00	28.08	0.00	0.00	0.00	0.00	0.00	14.45	
May 2021	0.00	0.00	6267.49	0.00	0.00	0.00	0.00	0.00	34.68	0.00	0.00	0.00	0.00	0.00	0.00	
Jun 2021	0.00	0.00	6555.38	0.00	0.00	0.00	0.00	0.00	26.87	0.00	0.00	0.00	0.00	0.00	25.03	
Jul 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.95	0.00	0.00	0.00	0.00	0.00	10.97	
Aug 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.55	0.00	0.00	0.00	0.00	0.00	3.49	
Sep 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.28	49.15	
Oct 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.47	0.00	0.00	0.00	0.00	0.00	62.08	
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00	0.00	34.17	
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36	0.00	0.00	0.00	0.00	0.00	52.18	
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.93	0.00	0.00	0.00	0.00	0.00	42.73	
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.62	
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.21	0.00	0.000	0.00	0.00	0.00	25.70	
Apr 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.51	0.00	0.00	0.00	0.00	0.00	0.00	52.83	
May 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.36	0.00	0.00	0.00	0.00	0.00	38.60	
Jun 2022	0.00	0.00	6645.22	0.00	0.00	0.00	0.00	5.70	0.00	0.00	0.000	0.00	0.00	0.00	37.38	
Jul 2022	0.00	0.00	4710.98	0.00	0.00	0.00	0.00	6.58	11.55	0.00	0.000	0.00	0.00	0.00	25.22	
Aug 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.60	0.42	21.74	
Sep 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.64	0.00	0.000	0.00	0.00	0.00	48.57	
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	44.71	
Nov 2022	0.00	0.00	4930.52	0.00	0.00	0.00	0.00	0.00	6.67	0.00	0.000	0.00	0.00	0.00	12.15	
Dec 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.21	0.00	0.000	0.00	0.00	0.00	62.32	
Jan 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.57	0.00	0.000	0.00	0.00	0.00	8.89	
Feb 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	7.39	
Mar 2023	0.00	0.00	4910.49	0.00	0.00	0.00	0.00	0.00	17.09	0.00	0.000	0.00	0.00	0.00	28.59	
Apr 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.78	0.00	0.000	0.00	0.00	0.00	29.60	
May 2023 Jun 2023	0.00	0.00	4953.79 7406.05	0.00	0.00	0.00	0.00	0.00	7.41 7.73	0.00	0.000	0.00	0.00	0.00	13.29 50.47	
Jun 2023 Jul 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.73 8.82	0.00	0.000	0.00	0.00	0.00	5.68	
Aug 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32	0.00	0.000	0.00	0.00	0.00	28.20	
Sep 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.000	0.00	0.00	0.00	34.00	
Oct 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	13.88	
Nov 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	11.59	
Dec 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.85	0.00	0.000	0.00	0.00	0.00	15.53	
Total	0.00	0.00	97737.40	0.00	0.00	0.00	0.00	17.79	384.50	0.00	0.25	0.00	1.00	0.70	921.81	

Total Inert C&D Waste Materials		Non-inert C&D Materials	ŝ	
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste	
97755.19 tonnes	384.75 tonnes	921.81 tonnes	0.70 tonnes	

Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 97755.19 tonnes of inert C&D material were generated from the Project, of which 97737.40 tonnes were reused in this and other contracts, and the remaining 17.79 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.

(b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.

(c) 9850 kg of metals. 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

Monthly Waste Flow Table for December 2023

Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension Project:

Paul Y. Construction Company, Limited

Ben Lam Record by: Year of Record: 2020, 2021, 2022 & 2023

MM.YYYY		Act	tual Quanti	ties of Inert (C&D Materia	als Generated	Monthly		Actual Quantities of Non-inert C&D Materials Generated Monthly						
	Exc	avated Mate	erials	Non-excavated Materials						· ·					
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) (1)	Metals (aluminum can) (1)	Paper / cardboard packaging (1)	Plastics	Chemical waste (wasted lubricant oil/oil container)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)	(in '000kg)
Oct 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.49
Apr 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.42	4.85
May 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.61
Jun 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.84
Oct 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.93
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	46.25
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.86
Apr 2022	0.00	0.00	15076.84	0.00	0.00	0.00	0.00	10.27	0.00	0.00	0.000	0.00	0.00	0.00	43.60
May 2022	0.00	0.00	29151.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	54.64
Jun 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	11.79
Jul 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.04	0.00	0.00	0.000	0.00	0.00	0.00	35.90
Aug 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	41.91
Sep 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	51.26
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	37.87
Nov 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	31.69
Dec 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.29	0.00	0.000	0.00	0.00	0.00	24.62
Jan 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	39.90
Feb 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.67	0.00	0.000	0.00	0.00	0.00	6.17
Mar 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.59	0.00	0.000	0.00	0.00	0.00	35.13
Apr 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	11.14
May 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.40	0.28	7.85
Jun 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	37.44
Jul 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	50.76
Aug 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	24.27
Sep 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	19.02
Oct 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	27.33
Nov 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.36	0.00	0.000	0.00	0.00	0.00	13.29
Dec 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	23.71
Total	0.00	0.00	44228.78	0.00	0.00	0.00	0.00	34.31	50.12	0.00	0.00	0.00	1.00	0.70	816.57

Total Inert C&D Waste Materials	Non-inert C&D Materials						
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
44263.09 tonnes	50.12 tonnes	816.57 tonnes	0.70 tonnes				

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 44263.09 tonnes of inert C&D material
		were generated from the Project, of which 44228.78 tonnes were reused in this and other contracts, and the remaining
		34.31 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse.

(c) 0 kg of metals. 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

Notes:

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

Monthly Waste Flow Table for December 2023

Project: LAMMA POWER STATION EXTENSION – Unit 12 Complete Erection, Inspection, Testing & Commissioning of Power Block Facilities

Contractor: Taihei Dengyo Kaisha, Ltd.

Record by: Stephen Sin
Year of Record: 2021, 2022, 2023

MM.YYYY		Actual	Quantities	of Inert C&D	Materials (Generated N	Monthly		Actual Q	uantities of	Non-inert C	&D Material	s Generated	Monthly
	Exc	avated Mate	rials		Non-ex	cavated M	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	bar / metal strip) (1)	Metals (aluminum can) (1)	Paper / cardboard packaging (1)	Plastics	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.29
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.59
Apr 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.42
May 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.93
Jun 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Jul 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.57
Aug 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.40
Sep 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.96
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.89
Nov 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.83
Dec 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.58
Jan 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.11
Feb 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
Mar 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.86
Apr 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.30
May 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76	14.66
Jun 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.01
Jul 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.40
Aug 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.80	25.43
Sep 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.40	15.73
Oct 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.26
Nov 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.85
Dec 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.68	21.75
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.64	405.28

Total Inert C&D Waste Materials	Non-inert C&D Materials						
Generated	C&D Materials Recycled	D Materials Recycled					
0.00 tonnes	0.00 tonnes	405.28 tonnes	59.64 tonnes				

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
	(c)	0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
	(d)	Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.
Notes:		(1) metal, paper & plastic were collected by recycler (2) The performance target of waste recycling are specified in the Contractt. (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site. (4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material. (5) Broken concrete for recycling into aggregates. (6) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste. (7) Assume Lube Oil Density = 700 kg/m3 (8) 1 m3 = 1000 L

Appendix K