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



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

February 2023

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



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMIT NO. EP-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 (February 2023)			
Date	14 March 2023			
Certified by	Alex.			
	(Mr. CHAN Hon Yeung, Environmental Team Leader)			
Verified by	Mr. Y. W. Fung (AECOM Asia Company Limited, Independent Environmental Checker)			

TABLE OF CONTENT

EXECUTIVE SUMMARY

1.	INTRODUCTION	1
1.1 1.2	Background Project Organisation	1 1
1.3 1.4	Construction Works undertaken during the Reporting Month Summary of EM&A Requirements	1 4
2.	AIR QUALITY	6
2.1 2.2 2.3 2.4 2.5 2.6	Monitoring Requirements Monitoring Locations Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Procedures and Calibration Details Results and Observations	6 6 6 6 7 8
3.	NOISE	10
3.1 3.2 3.3 3.4 3.5 3.6	Monitoring Requirements Monitoring Locations Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Procedures and Calibration Details Results and Observations	10 10 10 10 11 11
4.	ENVIRONMENTAL AUDIT	13
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8	Review of Environmental Monitoring Procedures Assessment of Environmental Monitoring Results Waste Management Site Environmental Audit Status of Environmental Licensing and Permitting Implementation Status of Environmental Mitigation Measures Implementation Status of Event/Action Plans Implementation Status of Environmental Complaint Handling Procedures	13 13 13 14 14 15 15
5.	FUTURE KEY ISSUES	16
5.1 5.2 5.3	Key Issues for the Coming Month Monitoring Schedules for the Next 3 Months Construction Program for the Next 3 Months	16 16 17
6.	CONCLUSION	18

LIST OF TABLES

Table 1.1	Construction Activities and Their Corresponding Environmental Mitigation Measures
Table 2.1	Air Quality Monitoring Locations
Table 2.2	Air Quality Monitoring Equipment
Table 2.3	Air Quality Monitoring Parameter, Duration and Frequency
Table 3.1	Noise Monitoring Equipment
Table 3.2	Noise Monitoring Duration and Parameter
Table 4.1	Summary of AL Level Exceedances on Monitoring Parameters
Table 4.2	Estimated Amounts of Waste in February 2023
Table 4.3	Summary of Environmental Licensing and Permit Status
Table 4.4	Environmental Complaints Received in February 2023
Table 4.5	Outstanding Environmental Complaints Carried Over

LIST OF FIGURES

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

APPENDICES

Appendix A	Organization Chart
Appendix B	Action and Limit Levels for Air Quality and Noise
Appendix C	Environmental Monitoring Schedule
Appendix D	Air Quality Monitoring Results for February 2023
Appendix E	Noise Monitoring Results for February 2023
Appendix F	The QA/QC Procedures and Results
Appendix G	Event/Action Plans
Appendix H	Site Audit Summary
Appendix I	Summary of EMIS
Appendix J	Tentative Construction Programme
Appendix K	Monthly Waste Flow Table for February 2023

EXECUTIVE SUMMARY

This is the 154th 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 February 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.

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	External works of Main Station Building, construction of No. 5 chimney, construction of L12 GRS, construction of superstructure and cable trench works for ACB, construction of cable trench and installation of precast parapet for Cable Bridge (North & South), construction of superstructure for shunt reactor compound extension and construction of external wall of intake chamber and installation of pre-cast unit for No. 5 C.W. Intake.
Unit L12 Mechanical Erection	Condenser installation, HRSG installation and turbine block installation
Unit L12 Electrical, Instrumentation & Control Erection	Cable installation

Environmental Monitoring Works

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

Air Quality

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

Noise

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

Site Environmental Audit

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

Environmental Licensing and Permitting

Description	Permit No.	Valid Period		Issued To	Date of
•		From	To]	Issuance
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
Construction Noise Permit	GW-RS0674-22	01/09/22	28/02/23	Contractor	17/08/22
Construction Noise Permit	GW-RS1163-22	08/01/23	06/07/23	Contractor	04/01/23
Construction Noise Permit	GW-RS0027-23	28/01/23	27/07/23	Contractor	20/01/23
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 February 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, external works of Main Station Building, construction of No.5 chimney, construction of L12 GRS, construction of superstructure and cable trench works for ACB, and construction of cable trench and installation of precast parapet for Cable Bridge (North & South), construction of superstructure for shunt reactor compound extension, construction of external wall of intake chamber and installation of pre-cast unit for No. 5 C.W. Intake, Construction activities for Unit L12 mechanical erection

were condenser installation, HRSG installation and turbine block installation. Construction activity for Unit L12 electrical, instrumentation & control erection was cable installation. 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 Civil and Building		Works	
1.	External works of Main Station Building Construction of No.5 Chimney Construction of L12 GRS ACB Construction of superstructure Cable trench works	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. 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):	Air - All regulated machine attached with valid	

Item	Construction Activities	Environmental Mitigation Measures
	Construction of cable trench and installation of precast parapet Shunt Reactor Compound Extension Construction of superstructure No. 5 C.W. Intake Construction of external wall of intake chamber of installation of precast unit	exception/approval NRMM labels. 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. Noise Noise 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 Wastewater treatment facility before discharge.
Unit L12	2 Mechanical Erection	on
3.	Condenser installation HRSG installation Turbine block installation	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	 2 Electrical, Instrume	entation & Control Erection
4.	Cable installation	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.

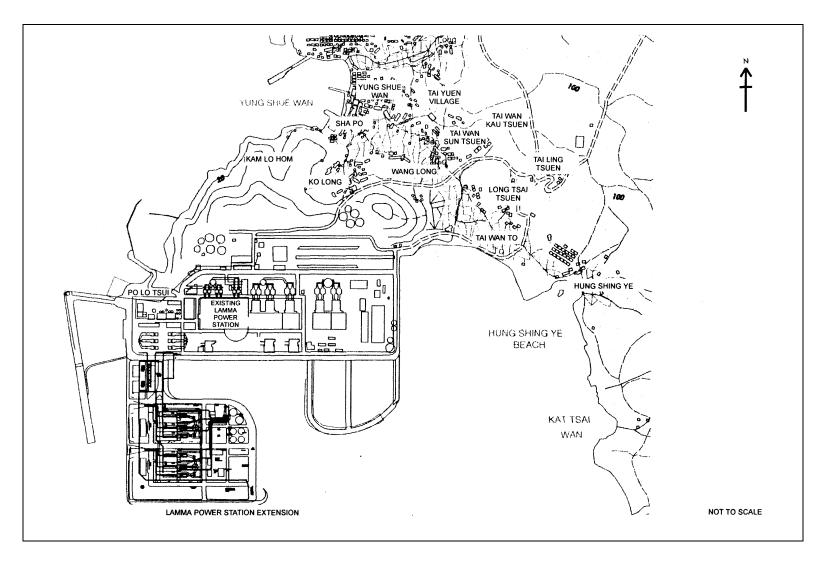


Figure 1.1 Layout of Work Site

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
AIVII	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;
 - o 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.

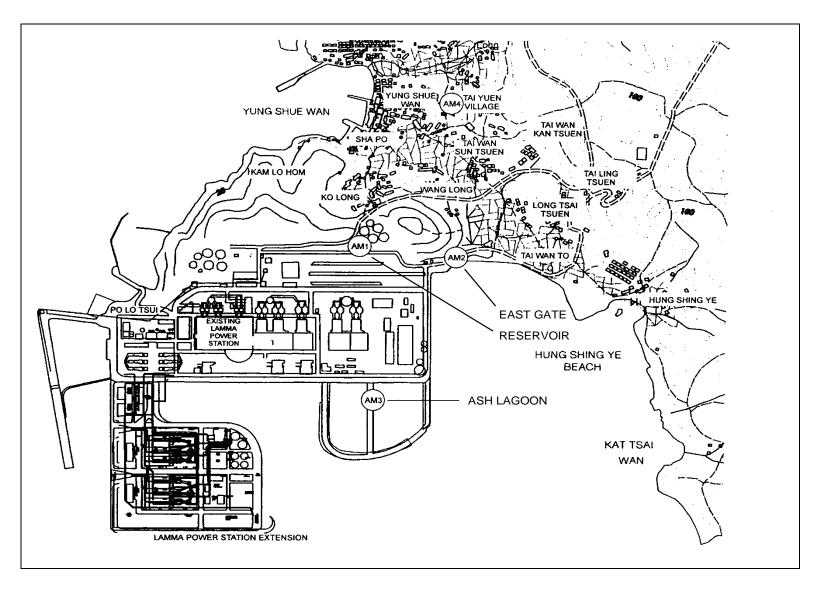


Figure 2.1 Location of Air Quality Monitoring Stations

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	
--	----------	-------------	-----------	-----------	--

	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}
	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 Ching Lam and Ash Lagoon noise monitoring stations were carried out in September and November 2022 respectively. The next calibrations for the two corresponding noise monitoring stations were scheduled in March and May 2023 respectively.

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.

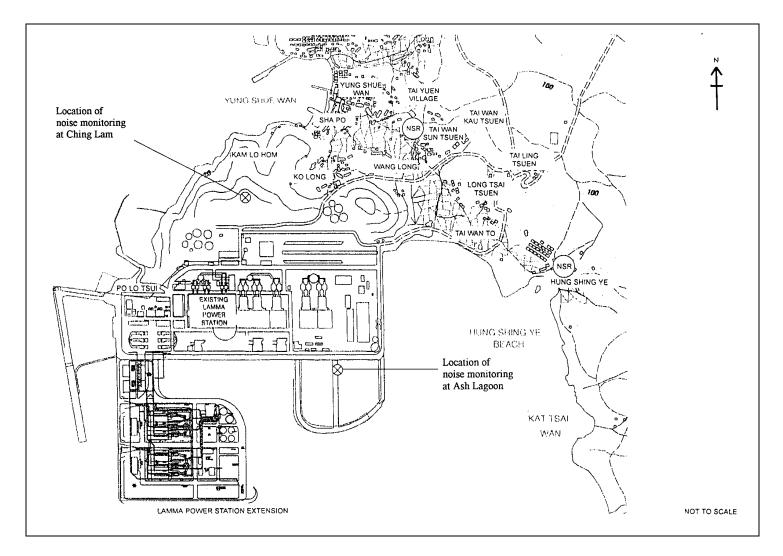


Figure 3.1 Location of Noise Monitoring Stations

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)	01/02/2023- 28/02/2023	0	0	
2	Ambient TSP (1-hour)	01/02/2023- 28/02/2023	0	0	
Noise					
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/02/2023- 28/02/2023	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 February 2023 are shown in Table 4.2.

Table 4.2 Estimated Amounts of Waste in February 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		

0 Tonnes	8.67 Tonnes	27.06 Tonnes	0 Litres
----------	-------------	--------------	----------

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

4.4 Site Environmental Audit

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

4.5 Status of Environmental Licensing and Permitting

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

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit No.	Valid Period		Highlights	Status
		From	To		
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid
Construction Noise Permit	GW-RS0674-22	01/09/22	28/02/23	Power Block Facilities works for Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS1163-22	08/01/23	06/07/23	Construction site of Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0027-23	28/01/23	27/07/23	Civil and Building 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
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	E&M Equipment Installation and Maintenance	Valid

Description	Permit No.	Valid Period		Highlights	Status
		From To			
Waste	Account No.:	27/10/20	-	Civil works for	Valid
Disposal	7038672			Unit L12 No.5	
Billing				C.W. intake and	
Account				cable bridge	
Waste	Account No.:	08/01/21	-	Civil and building	Valid
Disposal	7039272			works for Unit	
Billing				L12	
Account					
Waste	Account No.:	21/10/21	-	E&M Erection of	Valid
Disposal	7041942			Power Block	
Billing				Facilities – L12	
Account					

Notes: # and ## - Water quality monitoring was carried out in November 2022 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 February 2023, no complaint in relation to the environmental impact of the construction activities was received.

Table 4.4 Environmental Complaints Received in February 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:

Unit L12 Civil and Building Works

Noise Impact

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

Air Impact

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

Water Impact

• To treat wastewater in sedimentation 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.

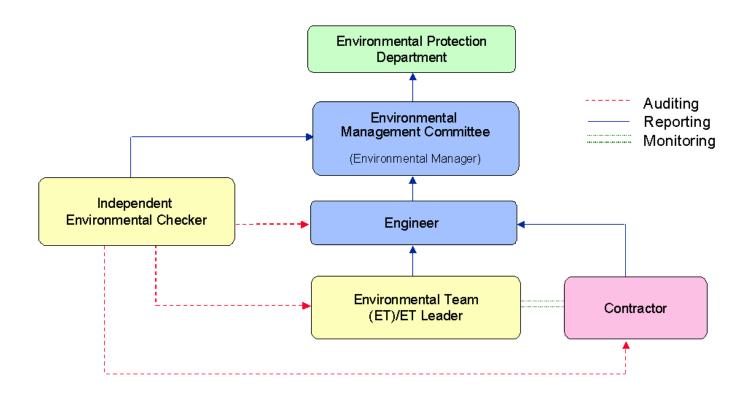


Figure A.1 Organisation of EM&A Programme at Construction Phase

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/m³
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 (February 2023 to May 2023)

24hr TSP Monitoring	1hr TSP Monitoring
1/February/2023	1/February/2023 1500hr to 1800hr
7/February/2023	7/February/2023 1500hr to 1800hr
13/February/2023	13/February/2023 1500hr to 1800hr
19/February/2023	19/February/2023 1500hr to 1800hr
25/February/2023	25/February/2023 1500hr to 1800hr
3/March/2023	3/March/2023 1500hr to 1800hr
9/March/2023	9/March/2023 1500hr to 1800hr
15/March/2023	15/March/2023 1500hr to 1800hr
21/March/2023	21/March/2023 1500hr to 1800hr
27/March/2023	27/March/2023 1500hr to 1800hr
2/April/2023	2/April/2023 1500hr to 1800hr
8/April/2023	8/April/2023 1500hr to 1800hr
14/April/2023	14/April/2023 1500hr to 1800hr
20/April/2023	20/April/2023 1500hr to 1800hr
26/April/2023	26/April/2023 1500hr to 1800hr
2/May/2023	2/May/2023 1500hr to 1800hr
8/May/2023	8/May/2023 1500hr to 1800hr
14/May/2023	14/May/2023 1500hr to 1800hr
20/May/2023	20/May/2023 1500hr to 1800hr
26/May/2023	26/May/2023 1500hr to 1800hr

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: February 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.
1/2/2023	53	27	37	43	17.8	30	77
7/2/2023	22	19	15	32	11.3	80	83
13/2/2023	36	21	10	17	10.4	40	88
19/2/2023	52	49	31	47	17.5	360	67
25/2/2023	60	163	51	65	34.8	10	54

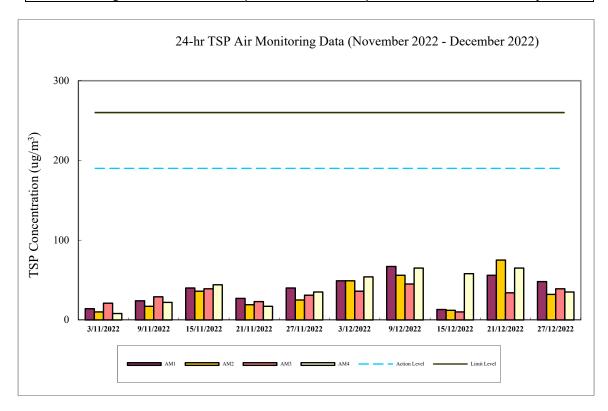
1 hour TSP Measurement:-

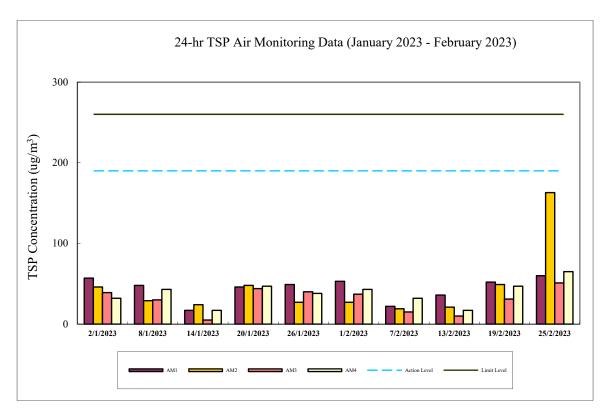
	TSP concentration				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	
1/2/2022	15:00 - 15:59	45	40	27	
1/2/2023	16:00 - 16:59	41	37	29	
	17:00 - 17:59	41	23	35	
	15:00 - 15:59	29	14	10	
7/2/2023	16:00 - 16:59	32	14	12	
	17:00 - 17:59	19	16	22	
	15:00 - 15:59	29	20	15	
13/2/2023	16:00 - 16:59	20	22	14	
	17:00 - 17:59	31	20	12	
	15:00 - 15:59	67	92	50	
19/2/2023	16:00 - 16:59	101	71	36	
	17:00 - 17:59	130	60	38	
25/2/2023	15:00 - 15:59	74	117	59	
	16:00 - 16:59	64	92	58	
	17:00 - 17:59	67	75	55	

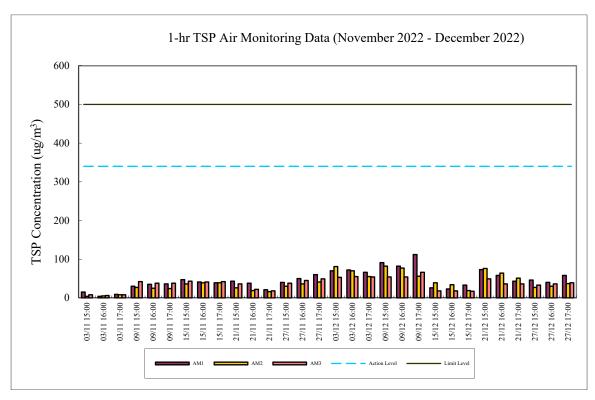
Calibration: Calibration details are shown in appendix F.

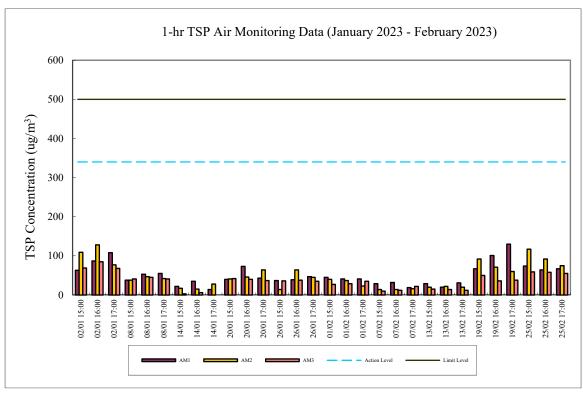
Equipment used:

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









Appendix E Continuous Noise Monitoring Results for February 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 - 21/10/2021 (Ash Lagoon)

03/09/2021 (Ching Lam)

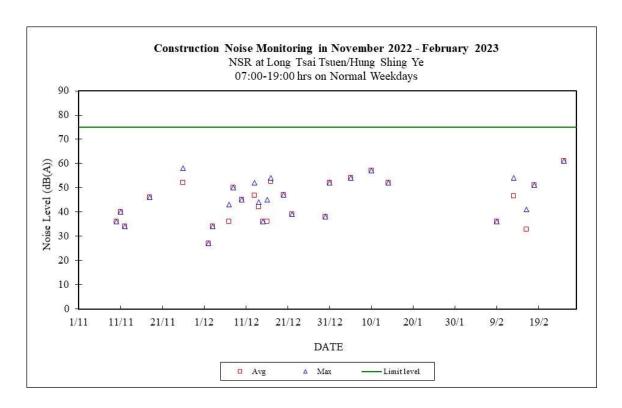
B&K 4231 calibrator (17/10/2022)

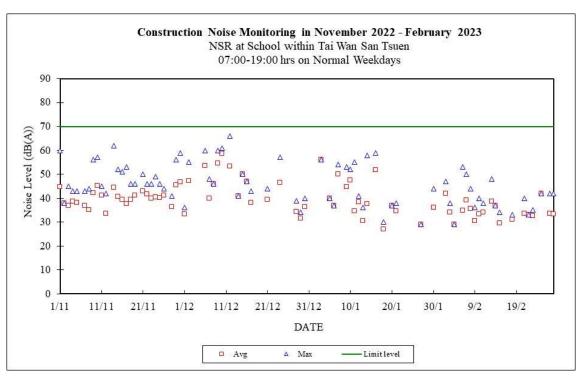
Date	Time	Calculated Noise Level at NSR at Long Tsai Tsuen/Hung Shing Ye (dB(A))		Calculated Noise Level at Limit NSR at the Noise school Level within Tai (dB(A)) Wan San Tsuen (dB(A))		Limit Noise Level (dB(A))	
		Max	Avg		Max	Avg	
01/02/2023	07:00-19:00			75			70
01/02/2023	19:00-23:00			60	29	25	60
01/02/2023	23:00-07:00	44	40	45			45
02/02/2023	07:00-19:00			75	47	42	70
02/02/2023	19:00-23:00	37	32	60	44	35	60
02/02/2023	23:00-07:00	43	35	45	34	30	45
03/02/2023	07:00-19:00			75	38	34	70
03/02/2023	19:00-23:00			60	41	36	60
03/02/2023	23:00-07:00	33	29	45	38	31	45
04/02/2023	07:00-19:00			75	29	29	70
04/02/2023	19:00-23:00			60	38	36	60
04/02/2023	23:00-07:00			45	39	33	45
05/02/2023	07:00-23:00	54	45	60	44	34	60
05/02/2023	23:00-07:00	42	39	45			45
06/02/2023	07:00-19:00			75	53	35	70
06/02/2023	19:00-23:00			60	42	39	60
06/02/2023	23:00-07:00	43	38	45	36	29	45
07/02/2023	07:00-19:00			75	50	39	70
07/02/2023	19:00-23:00	29	29	60	38	35	60
07/02/2023	23:00-07:00	41	34	45	37	30	45
08/02/2023	07:00-19:00			75	44	36	70
08/02/2023	19:00-23:00	41	34	60	38	31	60
08/02/2023	23:00-07:00	43	38	45	43	35	45
09/02/2023	07:00-19:00	36	36	75	36	31	70
09/02/2023	19:00-23:00			60	36	31	60
09/02/2023	23:00-07:00	40	35	45	39	32	45
10/02/2023	07:00-19:00			75	40	33	70
10/02/2023	19:00-23:00			60	44	37	60
10/02/2023	23:00-07:00	44	35	45	42	34	45
11/02/2023	07:00-19:00			75	38	34	70
11/02/2023	19:00-23:00			60	36	30	60
11/02/2023	23:00-07:00			45	39	32	45
12/02/2023	07:00-23:00	47	38	60	48	36	60
12/02/2023	23:00-07:00			45	35	30	45
13/02/2023	07:00-19:00	54	47	75	48	39	70
13/02/2023	19:00-23:00	45	42	60	34	30	60
13/02/2023	19:00-23:00	43	42	00	34	30	υU

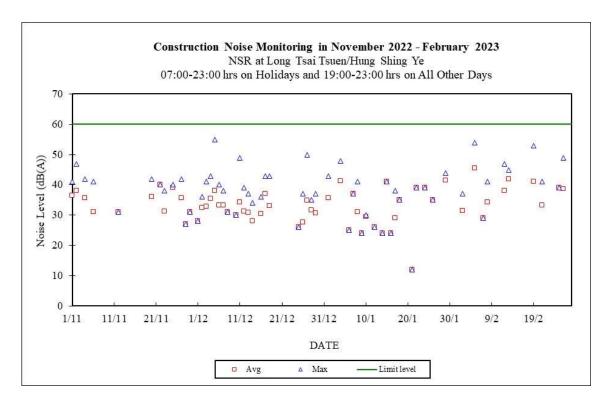
13/02/2023	23:00-07:00	45	40	45	42	37	45
14/02/2023	07:00-19:00			75	37	37	70
14/02/2023	19:00-23:00			60			60
14/02/2023	23:00-07:00	45	37	45	38	31	45
15/02/2023	07:00-19:00			75	34	30	70
15/02/2023	19:00-23:00			60	37	29	60
15/02/2023	23:00-07:00			45	32	29	45
16/02/2023	07:00-19:00	41	33	75			70
16/02/2023	19:00-23:00			60	47	46	60
16/02/2023	23:00-07:00	42	36	45	38	33	45
17/02/2023	07:00-19:00			75			70
17/02/2023	19:00-23:00			60	45	43	60
17/02/2023	23:00-07:00	45	42	45	40	34	45
18/02/2023	07:00-19:00	51	51	75	33	31	70
18/02/2023	19:00-23:00			60	43	38	60
18/02/2023	23:00-07:00			45	45	35	45
19/02/2023	07:00-23:00	53	41	60	45	36	60
19/02/2023	23:00-07:00	43	38	45	40	34	45
20/02/2023	07:00-19:00			75			70
20/02/2023	19:00-23:00			60	50	37	60
20/02/2023	23:00-07:00	42	38	45	45	34	45
21/02/2023	07:00-19:00			75	40	34	70
21/02/2023	19:00-23:00	41	33	60	41	30	60
21/02/2023	23:00-07:00	44	37	45	42	36	45
22/02/2023	07:00-19:00			75	33	33	70
22/02/2023	19:00-23:00			60	29	29	60
22/02/2023	23:00-07:00	41	37	45	36	33	45
23/02/2023	07:00-19:00			75	35	33	70
23/02/2023	19:00-23:00			60	35	32	60
23/02/2023	23:00-07:00	39	33	45	40	33	45
24/02/2023	07:00-19:00			75			70
24/02/2023	19:00-23:00			60	32	31	60
24/02/2023	23:00-07:00	45	36	45	37	26	45
25/02/2023	07:00-19:00	61	61	75	42	42	70
25/02/2023	19:00-23:00	39	39	60	35	35	60
25/02/2023	23:00-07:00			45	37	35	45
26/02/2023	07:00-23:00	49	39	60	42	30	60
26/02/2023	23:00-07:00	45	42	45	38	32	45
27/02/2023	07:00-19:00			75	42	34	70
27/02/2023	19:00-23:00			60	38	32	60
27/02/2023	23:00-07:00	41	35	45	43	33	45
28/02/2023	07:00-19:00			75	42	33	70
28/02/2023	19:00-23:00			60	38	33	60
28/02/2023	23:00-07:00	45	37	45	37	29	45

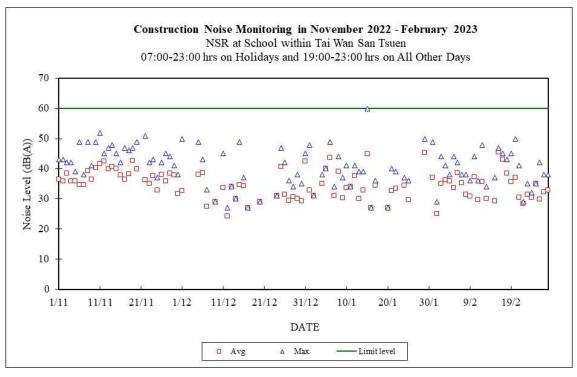
Note:

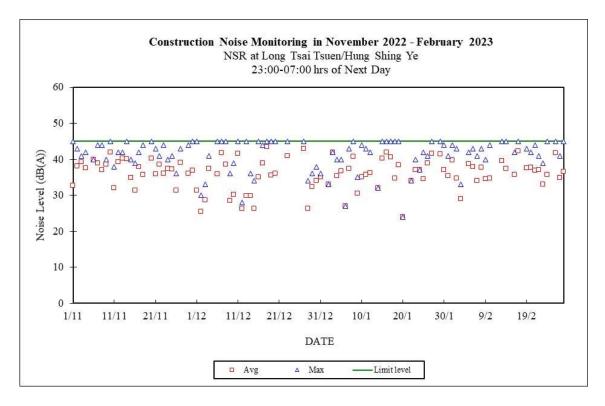
- a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.
- b. Continuous noise monitoring was also carried out at holidays & evening-time (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time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

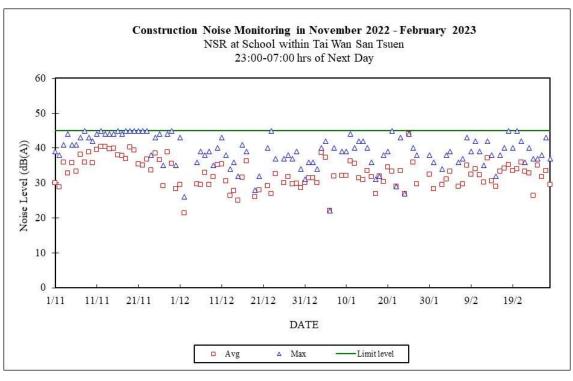












Appendix F

The QA/QC Procedures and Results

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

Month: February Year: 2023

Reservoir (AM1)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)
1/2/2023	267.749	4	2.92	10.31
7/2/2023	270.299	4	2.94	10.31
13/2/2023	269.897	4	2.91	10.31
19/2/2023	269.248	4	2.90	10.31
25/2/2023	268.397	4	3.00	10.31

East Gate (AM2)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
1/2/2023	262.218	4	2.04	14.05	
7/2/2023	267.530	4	3.01	13.68	
13/2/2023	267.265	4	3.00	13.67	
19/2/2023	266.544	4	3.00	13.66	
25/2/2023	265.554	4	3.00	13.67	

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
1/2/2023	255.913	4	2.18	13.68	
7/2/2023	255.631	4	2.06	13.69	
13/2/2023	255.480	4	2.04	13.68	
19/2/2023	255.148	4	1.90	13.68	
25/2/2023	257.456	4	2.80	13.69	

Maintenance Record					
	Reservoir	East Gate	Ash Lagoon		
TEOM Filter Exchange	✓	1	✓		
Clean TSP Inlet	/	1	/		
Replace flow in-line filter	1	1	/		
Pump Repair					
Leak Check					
Flow audit					
Flow Controller Calibration					
A/C filter cleaning					

Remarks:

Prepared by: Chris Chan

Checked by: HY Chan

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

Attendance Log	Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
14/02/2023 / 14:00	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS45
New filter paper no.	MS46

Type of filter: Glass-fibre

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

Before: <u>5.025</u>

After: 5.025 (No adjustment)

II. General Services

Clean Rotameter: Yes
 Clean / Replace Pump Valves: No
 Clean / Replace Pump Diaphragms: No
 Clean Impaction Inlet: Yes
 Replace Timer Battery Every 6 months: No
 Replace Inlet Filter: Yes

<u>Remarks</u>

N/A

Conducted by: <u>WM Tam</u> Checked by: <u>SM Hon</u>

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

Date	Location: A	Ash Lagoon	Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/02/2023	Passed	0.01	Passed	0.05
02/02/2023	Passed	-0.05	Passed	0.09
03/02/2023	Passed	-0.05	Passed	0.05
04/02/2023	Passed	-0.06	Passed	0.05
05/02/2023	Passed	-0.03	Passed	0.09
06/02/2023	Passed	-0.02	Passed	0.07
07/02/2023	Passed	-0.04	Passed	0.08
08/02/2023	Passed	-0.03	Passed	0.09
09/02/2023	Passed	0.00	Passed	0.08
10/02/2023	Passed	0.00	Passed	0.07
11/02/2023	Passed	-0.03	Passed	0.09
12/02/2023	Passed	-0.03	Passed	0.05
13/02/2023	Passed	-0.06	Passed	0.07
14/02/2023	Passed	-0.08	Passed	0.07
15/02/2023	Passed	-0.08	Passed	0.04
16/02/2023	Passed	-0.06	Passed	0.08
17/02/2023	Passed	-0.04	Passed	0.09
18/02/2023	Passed	-0.01	Passed	0.09
19/02/2023	Passed	-0.05	Passed	0.08
20/02/2023	Passed	-0.06	Passed	0.04
21/02/2023	Passed	-0.09	Passed	0.03
22/02/2023	Passed	-0.06	Passed	0.05
23/02/2023	Passed	-0.05	Passed	0.06
24/02/2023	Passed	-0.07	Passed	0.05
25/02/2023	Passed	-0.06	Passed	0.06
26/02/2023	Passed	-0.07	Passed	0.06
27/02/2023	Passed	-0.07	Passed	0.07
28/02/2023	Passed	-0.06	Passed	0.05

Remarks:

- 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	with ET and Contra Ensure remedial me	Discuss proposed remedial actions with ET and Contractor	Implement the agreed proposals
	Increase monitoring frequency to daily Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented		Ensure remedial measures properly implemented	Resubmit proposals if probl still not under control
			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	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.
	the Construction works, verbally advise the Contractor, Engineer and IEC, and inform 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	Keep the Contractor informed of the efficacy of remedial actions. Implement remedial actions.	Implement remedial actions immediately
	Discuss remedial actions required with Engineer.		If the exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop the portion of work until the exceedance is abated	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;	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor	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;	Advise Engineer on the effectiveness of the	review the working methods;	Rectify unacceptable practice;	
ampning day	Check monitoring data, all plant, equipment and Contractor's	proposed remedial measures Verify the implementation of the remedial	Make agreement on the mitigation measures to be implemented;	Check all plant and equipment; Consider changes of working methods;	
	working methods;	measures	Assess the effectiveness of the	Propose mitigation measures to Engineer	
	Discuss mitigation measure with Engineer and Contractor;		implemented mitigation measures; Consider and instruct, if necessary,	within 3 working days and discuss with Engineer;	
	Ensure mitigation measures are implemented;		the Contractor to slow down or to stop all or part of the marine works	Implement the agreed mitigation measures	
	Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.		until no exceedance of the Limit Level.	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> : 7/2/2023, 14/2/2023, 21/2/2023 and 28/2/2023.
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: 2/2/2023, 9/2/2023, 16/2/2023 and 23/2/2023. 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.						
	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;								
	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							
	T	T							
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.	C							

EM&A Log Ref.	Mitigation Measures	Implementation Status
	WASTE MANAGEMENT	
E1	HEC to submit a Waste Management Plan for the construction phase to EPD. The Plan shall be verified by the IEC and shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommendations of the EIA report.	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 	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	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 **

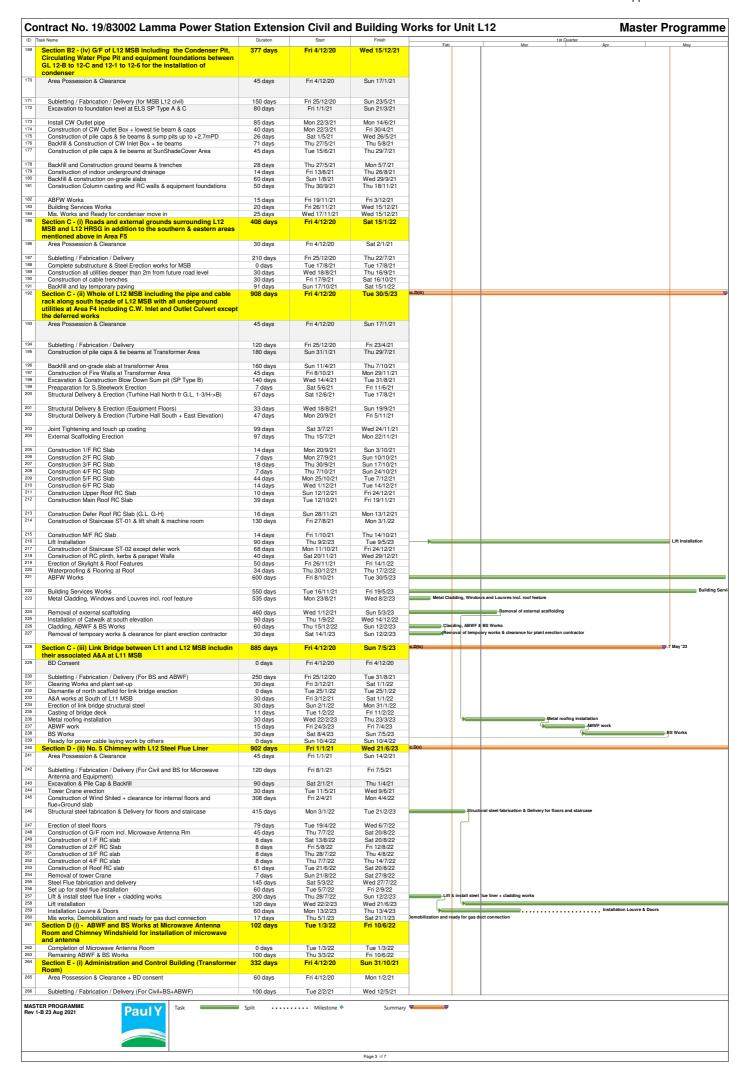
C

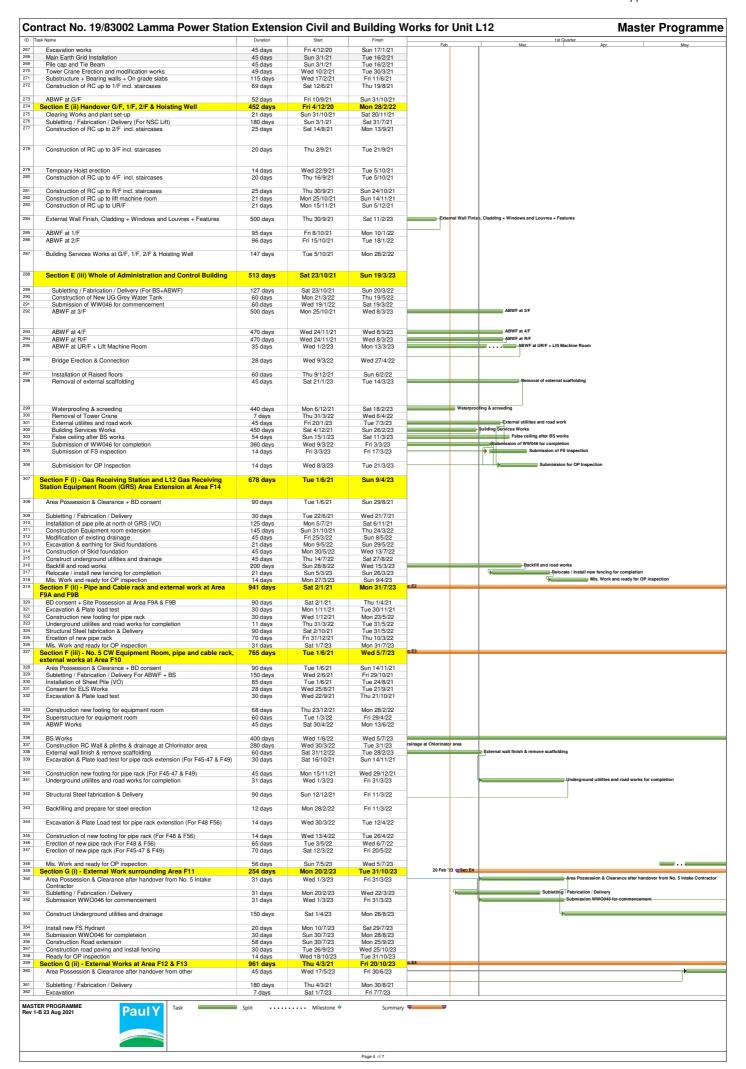
NC

Not Applicable N/A

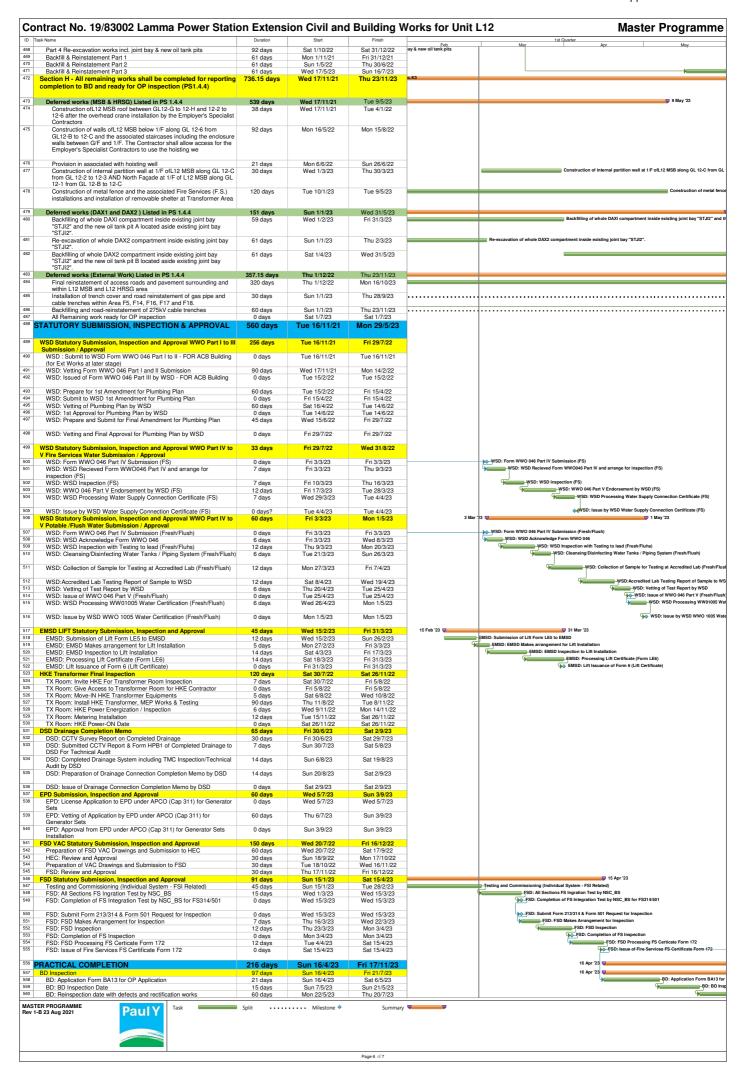
ct Period dt Work Completion Key Dates intial Completion of the Whole Contract Works (1123 Days) OSSESSION DATES sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 sessision Date as phased site possesion plan and PS1.4.2 LETION DATES as per PS1.4.2 Time for etion At (ii) - *Levalority Session plan and PS1.4.2 LETION DATES as per PS1.4.2 Time for etion At (iii) - *Levalority session plan and PS1.4.2 LETION DATES as per PS1.4.2 Time for etion At (iii) - *Levalority session plan and PS1.4.2 LETION DATES as per PS1.4.2 Time for etion At (iii) - *Levalority session plan and PS1.4.2 LETION DATES as per PS1.4.2 At (iii) - *Levalority session plan and PS1.4.2 LETION DATES as per PS1.4.2 At (iii) - *Levalority session plan and PS1.4.2 LETION DATES as per PS1.4.2 LETION DAT	0 days	Fri 4/12/20 Mon 8/11/21 Sun 31/12/23 Fri 4/12/20 Fri 4/12/20 Fri 4/12/20 Fri 4/12/20 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Thu 30/9/21 Thu 30/5/23 Wed 15/12/21 Thu 30/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21 Wed 21/6/23 Sun 31/10/21 Wed 21/6/23 Sun 31/10/21 Mon 28/2/22	Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 15/12/20 Fri 4/12/20 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Tri 1/10/22 Tri 1/10/23 Fri 1/10/22			
OSSESSION DATES possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site possession plan and PS1.4.2 pssession Date as phased site pssession plan and PS1.4.2 pssession Date as phased site pssession plan and PS1.4.2 pssession Date as phased site pssession plan and PS1.4.2 pssession Date pssession plan and PS1.4.2 pssession Date Date Date Date Date Date Date Date	513 days 0 days	Fri 4/12/20 Fri 4/12/20 Fri 4/12/20 Fri 1/12/20 Fri 1/12/20 Fri 1/12/21 Sat 1/5/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Thu 30/9/21 Thu 30/9/21 Thu 30/9/21 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Wed 15/12/21 Thu 30/9/21 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 3/17/0/21	Sun 1/5/22 Fri 4/12/20 Fri 1/1/21 Fri 1/10/21 Sat 1/5/21 Sat 1/5/21 Fri 1/10/21 Fri 1/10/22 Tue 16/1/24 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Won 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
ssession Date as phased site possesion plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 LETION DATES as per PS1.4.2 Time for relations of the property of the p	O days	Fri 1/1/21 Sat 1/5/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/4/22 Sun 1/5/22 Thu 30/9/21 Thu 30/9/21 Thu 30/9/21 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Wed 15/12/21 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 3/5/23 Fri 10/6/22 Wed 21/6/23 Sun 3/1/0/21	Fri 1/1/21 Sat 1/5/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Fri 1/10/21 Tue 16/1/24 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Tue 30/5/23 Sun 7/5/23			
ssession Date as phased site possesion plan and PS1.4.2 ssession Date as phased site possesion plan and PS1.4.2 ssession Date as phased site possesion plan and PS1.4.2 LETION DATES as per PS1.4.2 Time for etion A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F rate leading to Chirinney Road at Area F1.8 F2 had 16.3 Supporting structures for overhead cranes of L12 MSB and L12 HRSG from GL12-F rate leading to Chirinney Road at Area F1.8 F2 had (ii) - Supporting structures for overhead cranes of L12 MSB and A2 (ii) External Works including CW Inlet Culvert at Area F8A had (iii) External Works including CW Inlet Culvert at Area F8B had 2 (iii) External Works including CW Inlet Culvert at Area F8B had 2 (iii) External Works including CW Inlet Culvert at Area F8C had at Area F3 had a feet of the Culvert at Area F8C had at Area F3 had a feet of the Culvert at Area F8C had at Area F3 had a feet of the Culvert at Area F8C had a feet	O days	Fri 1/10/21 Fri 1/10/21 Fri 1/4/22 Sun 1/5/22 Thu 30/9/21 Thu 30/9/21 Thu 30/9/21 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 3/10/21	Fri 1/10/21 Fri 1/10/21 Fri 1/14/22 Sun 1/5/22 Tue 16/1/24 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
pssession Date as phased site possesion plan and PS1.4.2 LETION DATES as per PS1.4.2 Time for etion A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F rack leading to Chimney Road at Area F1 & F2 A1 (ii) - Supporting structures for overhead cranes of L12 MSB gine the associated roof structure except the roof deferred works in A2 (ii) External Works including CW Inlet Culvert at Area F8A A2 (ii) External Works including CW Inlet Culvert at Area F8B A2 (iii) External Works including CW Inlet Culvert at Area F8B A2 (iii) External Works including CW Inlet Culvert at Area F8B A2 (iii) External Works including CW Inlet Culvert at Area F8C B1 - Area south of L12 MSB from GL12-F westwards leading to R04 at Area F3 B2 (iii) Southern Part of L12 HRSG areas and its surrounding refer to R05 as shown in drawing no 55303/2040 including the total root of R05 Area F8C B2 (iii) L12 Turbo Block foundation including the L12 MSB ground gether with the equipment foundations between G1 12-F to 12-H -1 to 12-6 for the installation of power generator, air inlet duct and reservoir B2 (ii) Vi (G/F of L12 MSB including the Condenser Pit. Circulating Pipe Pit and equipment foundations between G1 12-E to 12-C and 12-E for the installation of condenser C (ii) R04 and external grounds surrounding 12 MSB and L12 in addition to the southern & eastern areas mentioned above in 12-C (i) R04 and and external ground utilities at Area F4 including nel at Area F8 including their and Chimney with L14 MSB including the pipe and cable rack along agade of L12 MSB with all underground utilities at Area F4 including nel at Area F8 including their and Chimney with L14 MSB including the R04 MSB with all underground utilities at Area F4 including nel at Area F10 including their and Chimney with L12 Steel Five liner 12-C and 12-C an	0 days 838 days 0 days	Sun 1/5/22 Thu 30/9/21 Thu 30/9/21 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Sun 1/5/22 Tue 16/1/24 Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
At (i) - Area south of 1.12 MSB and L12 HRSG from GL12-Frods leading to Chimmey Road at Area F1 & F2 - Art (ii) - Subporting structures for overhead cranes of 1.12 MSB ing the associated roof structure except the roof deferred works in A2 (i) External Works including CW Inlet Culvert at Area F8A in A2 (ii) External Works including CW Inlet Culvert at Area F8A in A2 (ii) External Works including CW Inlet Culvert at Area F8B in A2 (iii) External Works including CW Inlet Culvert at Area F8B in A2 (iii) External Works including CW Inlet Culvert at Area F8B in A2 (iii) External Works including CW Inlet Culvert at Area F8C in B1 - Area south of 1.12 MSB from GL12-F westwards leading to Read at Area F3 in B2 (ii) - Southern Part of 1.12 MSB from GL12-F westwards leading to Read at Area F3 in B2 (iii) - Southern Part of 1.12 HRSG areas and its surrounding refer 1.68 as shown in drawing no 583/03/2040 including the 1.12 MSB ground gether with the equipment foundations between GL 1.12-F to 1.12-H 1.10 1.12-f for the installation of power generator, air inlet duct and reservoir in B2 - (iii) Al 2 Turb Block foundation between GL 1.12-B to 1.12-C and 1.12-f for the installation of condenser P1t. Circulating Pipe P1t and equipment foundations between GL 1.12-B to 1.12-C and 1.12-f for the installation of condenser in C - (ii) Mole of L12 MSB including the pipe and cable rack along acade of L12-MSB with all underground utilities at Area F4 including intell and Outlet Outlever except the deferred works. In C - (iii) Link Bridge between L11 and L12 MSB including their ated AAA at L1.1 MSB including the pipe and cable rack along acade of L12 MSB with all underground utilities at Area F4 including intell and Outlet Culvert except the deferred works.	0 days	Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 3/5/23 Fri 10/6/22 Wed 21/6/23 Sun 3/1/10/21	Thu 30/9/21 Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
urds leading to Chimney Road at Area F1 & F2 A1 (ii) - Supporting structures for overhead cranes of L12 MSB ng the associated roof structure except the roof deferred works provided to the control of t	0 days	Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Mon 1/11/21 Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Tue 30/5/23 Sun 7/5/23			
ng the associated roof structure except the roof deferred works 1 A2 (i) External Works including CW Inlet Culvert at Area F8A 1 A2 (ii) External Works including CW Inlet Culvert at Area F8B 1 A2 (iii) External Works including CW Inlet Culvert at Area F8B 1 A2 (iii) External Works including CW Inlet Culvert at Area F8B 1 B1 - Area south of L12 MSB from GL12-F westwards leading to 1 B2 (ii) Southern Part of L12 HRSG areas and its surrounding refer 1 B2 (ii) Southern Part of L12 HRSG areas and its surrounding refer 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area and its 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B2 (iii) - Renaining northern part of L12 HRSG area 1 B3 (iii) - Renaining northern part of L12 HRSG area 1 B3 (iii) - Renaining northern part of L12 HRSG area 1 B3 (iii) - Renaining northern part of L12 HRSG area 1 B4 (iii) - Renaining northern part of L12 HRSG area 1 B4 (iii) - Renaining northern part of L12 HRSG area 1 B4 (iii) - Renaining northern part of L12 HRSG area 1 B4 (iii) - Renaining northern part of L12 HRSG area 1 B4 (iii) - Renaining northern part of L12 HRSG area 1 B4 (iii) - Renaining northern part of L12 HRSG area 1 B4 (iii) - Rena	0 days	Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Fri 10/6/23 Sun 37/5/23 Ved 21/6/23 Sun 3/10/21	Fri 28/7/23 Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
n A2 (iii) External Works including CW Intet Culvert at Area F8B n A2 (iii) External Works including CW Intet Culvert at Area F8C n B1 - Area south of L12 MSB from GL12-F westwards leading to Road at Area F3 n B2 (iii) Suthern Part of L12 HRSG areas and its surrounding refer 168 as shown in drawing no 553/03/2040 including the 168 fas shown in drawing no 553/03/2040 including the 169 fas shown in drawing no 553/03/2040 including the 169 fas Shown in drawing no 553/03/2040 including the 169 fas Shown in drawing no 169 fas Shown in B2 (iii) - Remaining northern part of L12 HRSG area and its 169 fas fas and F6C 169 fas fas and F6C 169 fas fas and F6C 169 fas fas including the L12 MSB ground 169 fas fas including the L12 MSB ground 169 fas	0 days	Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 3/1/10/21	Tue 16/1/24 Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
n A2 (iii) External Works including CW Inlet Culvert at Area F8C n B1 - Area south of L12 MSB from GL12-F westwards leading to Road at Area F3 n B2 (ii) Southern Part of L12 HRSG areas and its surrounding refer 16B as shown in drawing no 553/03/2040 including the titons for Gas Exhaust Duct n B2 (ii) - Remaining northern part of L12 HRSG area and its diding at Area F68 and F6C n B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground gether with the equipment foundations between GL 12-F to 12-H -1 to 12-6 for the installation of power generator, air inlet duct and reservoir n B2 - (iv) G/F of L12 MSB including the Condenser Pt. Circulating Pipe Pt and equipment foundations between GL 12-F to 12-H -1 to 12-6 for the installation of condenser of C- (i) Roads and external grounds surrounding L12-B to 12-C and 12-B to 12-C and 12-B to 12-C and 12-B to 12-C and 12-C	0 days	Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Fri 10/6/22 Wed 21/6/23 Sun 3/10/21	Sat 28/10/23 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
B1 - Area south of L12 MSB from GL12-F westwards leading to Road at Area F3 B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer 1F8B as shown in drawing no 553/03/2040 including the titons for Gas Exhaust Duct B2 (ii) - Remaining northern part of L12 HRSG area and its Milling at Area F68 and F6C B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground gether with the equipment foundations between GL 12-F to 12-H -1 to 12-6 for the installation of power generator, air inlet duct and reservoir B2 - (iv) G/F of L12 MSB including the Condenser Pt. Circulating Pipe Pt and equipment foundations between GL 12-F to 12-H -1 to 12-6 for the installation of condenser C - (i) Roads and external grounds surrounding L12-B to 12-C and 12-E to 12-B to 12-C and addition to the southern & eastern areas mentioned above in 5° C - (ii) Whole of L12 MSB including the pipe and cable rack along agade of L12 MSB with all underground utilities at Area F4 including related A8A at L11 MSB including their atted A8A at L11 MSB including Area Extension and Chimney Windshilled for the titon of miscrowave equipment and antenna 1 D (ii) No. 5 Chimney with L12 Steel Flue limit. & Control Building 1 E (iii) - CF, II-7, E7 & Robisting Well of Admin. & Control Building 1 E (iii) - CF, II-7, E7 & Robisting Mell of Admin. & Control Building 1 E (iii) - CF, II-7, E7 & Robisting and A8A E7A E7A E7A E7A E7A E7A E7A E7A E7A E7	0 days	Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
Road at Area F3 B2 (i) Southern Part of L12 HRSG areas and its surrounding refer 1F8B as shown in drawing no 553/03/2040 including the titons for Gas Exhaust Duct B2 (ii) - Remaining northern part of L12 HRSG area and its did in B2 (ii) - Remaining northern part of L12 HRSG area and its did ing at Area F6A and F6C B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground gether with the equipment foundations between G1, 12-F to 12-H -1 to 12-6 for the installation of power generator, air inlet duct and reservoir B2 - (iv) G/F of L12 MSB including the Condenser Pt. Circulating Pipe Pt and equipment foundations between G1, 12-B to 12-C and 12-B to 12-C and 12-C for the installation of condenser C - (ii) Roads and external grounds surrounding L12 MSB and L12 in addition to the southern & eastern areas mentioned above in 5-C (ii) Whole of L12 MSB including the pipe and cable rack along agade of L12 MSB with all underground utilities at Area F4 including nilet and Outlet Culvert except the deferred works D - (ii) Microwave Antenna Room and Chimney Windshilled for the titon of miscrowave equipment and antenna D (ii) No. 5 Chimney with L12 Steel Flue liner E (ii) - G/F, II-2, F2 R Hoistingt and L12 Gas Receiving Station nert Room (GRS) Area Extension at Area F4 (iii) - Gas Receiving Station and L12 Gas Receiving Station nert Room (GRS) Area Extension at Area F14 F (iii) - No. 5 CW Equipment Room and Chimney wind Area F10 G (ii) - External Works at Area F11 & F13 G (iii) - External Works at Area F12 & F13 G (iii) - External Works at Area F12 & F13 G (iii) - FS Modification works along South Seafront Road at Area	0 days	Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
I F6B as shown in drawing no 553/03/2040 including the titions for Gas Exhaust Duct in B2 (ii) - Remaining northern part of LIZ HRSG area and its ni B2 (ii) - Remaining northern part of LIZ HRSG area and its nile 2 (iii) - 12 (iii) 1.12 (iii) 1.12 (iii) 1.12 (iii) 1.13 (iii) 1.13 (iii) 1.13 (iii) 1.13 (iii) 1.13 (iii) 1.14 (iii) 1.14 (iii) 1.15 (iii	0 days	Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
nding at Area F6A and F6C B2 - (iii) L12 trubo Block foundation including the L12 MSB ground gether with the equipment foundations between Gl. 12-F to 12-H -1 to 12-6 for the installation of power generator, air inlet duct and Ireservoir B2 - (iii) G17-6 L12 MSB including the Condenser Pit, Circulating Pipe Pit and equipment foundations between Gl. 12-B to 12-C and 12-6 for the installation of condenser C - (ii) Roads and external grounds surrounding L12 MSB and L12 in addition to the southern & eastern areas mentioned above in 5 C - (iii) Whole of L12 MSB including the pipe and cable rack along agade of L12-B to suffer a sestern areas mentioned above in 5 C - (iii) Link B7 dight and L12 MSB including the pipe and cable rack along agade of L12 MSB with all underground utilities at Area F4 including nelted and Outlet Culvert except the deferred works. C - (iii) Link Bridge between L11 and L12 MSB including their ated AAA at L11 MSB D - (i) Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna D - (ii) No. 5 Chimney with L12 Steel Flue liner E (ii) Tx Room of Adminintration and Control Building E (iii) - Whole of Admin. And Control Building E (iii) - Whole of Strainey with L12 Steel Flue liner E (iii) - G6 F, Pt., 20 F& Hoisting will off Admin. & Control Building F (ii) - G6F, Pt., 20 F& Hoisting and L12 Gas Receiving Station nent Room (GRS) Area Extension at Area F14 F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 G (ii) - External Work surrounding Area F11 G (iii) - External Works at Area F12 & F13 G (iii) - FS Modification works along South Seafront Road at Area	0 days	Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Mon 28/2/22 Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
gether with the equipment foundations between Gl. 12-F to 12-H - 10 12-6 for the installation of power generator, air inlet duct and Ireservoir 18-2 · (iv) Gl/F of L12 MSB including the Condenser Pit, Circulating Pipe Pit and equipment foundations between Gl. 12-B to 12-C and 12-6 for the installation of condenser 10-0 · (i) Roads and external grounds surrounding L12 MSB and L12 in addition to the southern & eastern areas mentioned above in 5 10-(iii) Whole of L12 MSB including the pipe and cable rack along agade of L12 MSB with all underground utilities at Area F4 including nelted and Cuttle Culvert except the deferred works. 10-(iii) Link Bridge between L11 and L12 MSB including their ated AAA at L11 MSB 10-(i) Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna 10-(i) No. 5 Chimney with L12 Steel Flue liner 10-(ii) Tx Room of Adminintration and Control Building 10-(iii) - Gin-Fiz-, 20 F4 belisting Well of Admin. & Control Building 10-(iii) - Chimney with L12 Steel Flue liner 10-(iii) - Chimney with L14 F(ii) - Pipe and Cable rack and external work at Area F9A and F9B 17-(iiii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 10-(ii) - Cix External Works at Area F12 & F13 10-(iii) - FX Homer Area F12 & F13 10-(iii) - FX Homer Area F12 & F13 10-(iii) - FX Homer Area F12 & F13 10-(iii) - FX Modification works along South Seafront Road at Area	0 days	Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Wed 15/12/21 Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
Ireservoir BE 2- (in) G/F of L12 MSB including the Condenser Pit, Circulating Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-E for the installation of condenser C - (i) Roads and external grounds surrounding L12 MSB and L12 in addition to the southern & eastern areas mentioned above in 5 C - (iii) Whole of L12 MSB including the pipe and cable rack along agade of L12 MSB with all underground utilities at Area F4 including related AC AdA at L11 MSB TO - (iii) Link Bridge between L11 and L12 MSB including their ated AAA at L11 MSB TO - (i) Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna TO - (ii) Tx Room of Adminintration and Control Building E (ii) - GF, F1, F2, F8 Hoisting Well of Admin. & Control Building F (ii) - GSB, F1, F2, F8 Hoisting Well of Admin. & Control Building F (iii) - Whole of Admin. And Control Building F (iii) - Nho S CSB, Area Extension at Area F14 F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 G (ii) - External Work surrounding Area F11 G (iii) - External Works surrounding Area F11 G (iii) - External Works surrounding Area F12 & F13 G (iii) - FS Modification works along South Seafront Road at Area	0 days	Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-C for the installation of condenser G - (i) Roads and external grounds surrounding L12 MSB and L12 in addition to the southern & eastern areas mentioned above in 5 to - (ii) Whole of L12 MSB including the pipe and cable rack along açade of L12 MSB with all underground utilities at Area F4 including nelte and Outlet Culvert except the deferred works. G - (iii) Link Bridge between L11 and L12 MSB including their ated A&A at L11 MSB D - (i) Microwave Antenna Room and Chimney Windshiled for the tion of miscrowave equipment and antenna D - (ii) No. Fo. Chimney with L12 Steel Flue liner E (ii) Tx Room of Adminintration and Control Building E (iii) - Whole of Admin. And Control Building F (ii) - GGF, F1, F2 F8 Holsting Well of Admin. & Control Building F (ii) - Gas Receiving Station and L12 Gas Receiving Station nent Room (GRS) Area Extension at Area F14 F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 G (ii) - External Work surrounding Area F11 G (iii) - External Works at Area F12 & F13 G (iii) - FS Modification works along South Seafront Road at Area	0 days	Sat 15/1/22 Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Sat 15/1/22 Tue 30/5/23 Sun 7/5/23			
n C - (i) Noads and external grounds surrounding L12 MSB and L12 in addition to the southern & eastern areas mentioned above in 5 to - (ii) Whole of L12 MSB including the pipe and cable rack along acade of L12 MSB with all underground utilities at Area F4 including nelt and Outlet Culvert except the deferred works of C - (iii) Link Bridge between L11 and L12 MSB including their ated A&A at L11 MSB to - (iii) Link Bridge between L11 and L12 MSB including their ated A&A at L11 MSB to - (iii) Consider the tion of miscrowave equipment and antenna to - (iii) Tx Room of Adminintration and Control Building to - (iii) Tx Room of Adminintration and Control Building to - (iii) - (Whole of Admin. And Control Building to - (iii) - (Whole of Admin. And Control Building to - (iii) - (Whole of Admin. And Control Building to - (iii) - (Whole of Admin. And Control Building to - (iii) - (Whole of Admin. And Control Building to - (iii) - (Whole of Admin. And Control Building to - (iii) - (Whole of Admin. And Control Building to - (iii) - (iiii) - (iiii) - (iiiii) - (iiiiiii) - (iiiiiiii) - (iiiiiiiiii	0 days	Tue 30/5/23 Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Tue 30/5/23 Sun 7/5/23			
5 Or - (ii) Whole of L12 MSB including the pipe and cable rack along agade of L12 MSB with all underground utilities at Area F4 including nlet and Outlet Culvert except the deferred works Inc - (iii) Link Bridge between L11 and L12 MSB including their ated A&A at L11 MSB Inc - (iii) Link Bridge between L11 and L12 MSB including their ated A&A at L11 MSB Inc - (iii) Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna Inc (iii) - No. 5 Chimney with L12 Steel Flue liner Inc (iii) Tx Room of Adminint zalion and Control Building Inc (iii) - Whole of Admin. And Control Building Inc (iii) - Whole of Admin. And Control Building Inc (iii) - Whole of Admin. And Control Building Inc (iii) - Whole of Admin. And Control Building Inc (iii) - Steepening Station and L12 Gas Receiving Station Incent Room (GRS) Area Extension at Area F14 Inc (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10. Sc W Equipment Room, pipe and cable rack, external at Area F10. Sc W Equipment Room, pipe and cable rack, external at Area F10. G No. 5 External Works at Area F12 & F13 Inc (iii) - FS Modification works along South Seafront Road at Area	0 days	Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Sun 7/5/23			
açade of L12 MSB with all underground utilities at Area F4 including neltet and Outlet Outler except the deferred works. C - (iii) Link Bridge between L11 and L12 MSB including their ated A&A at L11 MSB D - (i) Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna D - (i) Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna D - (ii) - (iii) - (i	0 days	Sun 7/5/23 Fri 10/6/22 Wed 21/6/23 Sun 31/10/21	Sun 7/5/23			
ated A&A at L11 MSB D D on the MSB at L11 MSB D D (in Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna D (iii) N. Os Chimney with L12 Steel Flue liner E (i) Tx Room of Adminintration and Control Building D E (iii) - Whole of Admin. And Control Building D E (iii) - Whole of Admin. And Control Building D E (iii) - Whole of Admin. And Control Building D E (iii) - Whole of Admin. And Control Building D E (iii) - Whole of Admin. And Control Building D E (iii) - Whole of Admin. And L12 Gas Receiving Station nent Room (GRS) Area Extension at Area F14 F (iii) - Pipe and Cable rack and external work at Area F9A and F9B D External Work surrounding Area F11 G (iii) - External Work surrounding Area F11 G (iii) - External Works at Area F12 & F13 G (iii) - FS Modification works along South Seafront Road at Area O G (iii) - FS Modification works along South Seafront Road at Area	0 days	Fri 10/6/22 Wed 21/6/23 Sun 31/10/21				
n D - (i) Microwave Antenna Room and Chimney Windshiled for the tition of miscrowave equipment and antenna n D (ii) - No. 5 Chimney with L12 Steel Flue liner 1 € (ii) Tx Room of Adminintration and Control Building n E (ii) - G/F,1/F,2/F & Hoisting Well of Admin. & Control Building n E (ii) - Whole of Admin. And Control Building n F (i) - Gas Receiving Station and L12 Gas Receiving Station nent Room (GRS) Area Extension at Area F14 F (ii) - Pipe and Cable rack and external work at Area F9A and F9B n F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 - External Work starters F11 n G (ii) - External Work starters F12 & F13 n G (iii) - External Works at Area F12 & F13 n G (iii) - FS Modification works along South Seafront Road at Area	0 days 0 days 0 days 0 days 0 days	Wed 21/6/23 Sun 31/10/21	Fri 10/6/22		Section	tion C - (iii) Link
n D (ii) - No. 5 Chirnney with L12 Steel Flue liner E (ii) Tx Room of Adminintration and Control Building n E (ii) - G/F,1/F,2/F & Hoisting Well of Admin. & Control Building n E (iii) - Whole of Admin. And Control Building n E (iii) - Whole of Admin. And Control Building n E (iii) - Whole of Admin. And Control Building n E (iii) - Conserving Station and L12 Gas Receiving Station F (iii) - Roye Area Extension at Area F14 F (iii) - Pipe and Cable rack and external work at Area F9A and F9B n F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 n G (ii) - External Works at Area F12 & F13 n G (iii) - FS Modification works along South Seafront Road at Area	0 days 0 days 0 days 0 days	Sun 31/10/21				
n E (ii) - QFF,1/F, 2/F & Hoisting Well of Admin. & Control Building 1 E (iii) - Whole of Admin. And Control Building 1 F (i) - Gas Receiving Station and L12 Gas Receiving Station nent Room (GRS) Area Extension at Area F14 F (ii) - Pipe and Cable rack and external work at Area F9A and F9B 1 F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 1 G (i) - External Works at Area F12 & F13 1 G (ii) - External Works at Area F12 & F13 1 G (ii) - External Works at Area F12 & F13	0 days 0 days 0 days		Wed 21/6/23 Sun 31/10/21			
IF (i) - Gas Receiving Station and L12 Gas Receiving Station neent Room (GRS) Area Extension at Area F14 F (ii) - Pipe and Cable rack and external work at Area F9A and F9B in F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 In G (ii) - External Work surrounding Area F11 In G (ii) - External Works at Area F12 & F13 In G (iii) - FS Modification works along South Seafront Road at Area	0 days		Mon 28/2/22			
nent Room (GRS) Area Extension at Area F14 F(ii) - Pipe and Cable rack and external work at Area F9A and F9B F(iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 - External Work surrounding Area F11 G(i) - External Works at Area F12 & F13 G(iii) - FS Modification works along South Seafront Road at Area		Tue 31/5/22 Sun 9/4/23	Tue 31/5/22 Sun 9/4/23		♦ Section F (i) - Gas Receiving Station and I	L12 Gas Recei
1 F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external at Area F10 10 (i) - External Work surrounding Area F11 10 (ii) - External Works at Area F12 & F13 10 (iii) - FS Modification works along South Seafront Road at Area	0 days	Mon 31/7/23	Mon 31/7/23			
at Area F10 1G (i) - External Work surrounding Area F11 1G (ii) - External Works at Area F12 & F13 1G (iii) - FS Modification works along South Seafront Road at Area	0 days	Wed 5/7/23	Wed 5/7/23			
n G (iii) - FS Modification works along South Seafront Road at Area	0 days	Tue 31/10/23	Tue 31/10/23			
	0 days 0 days	Fri 20/10/23 Fri 30/9/22	Fri 20/10/23 Fri 30/9/22			
n G (iv) - 275kV cable trenches and External Works at Area F16	0 days	Mon 14/8/23	Mon 14/8/23			
n G (v) - Shunt Reactor Compound and External Works at Area F17	0 days	Sat 3/6/23	Sat 3/6/23			
n G (vi) - 275kV cable trenches and External Works at Area F18	0 days	Wed 1/6/22	Wed 1/6/22			
n G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area	0 days	Tue 14/2/23	Tue 14/2/23	Section G (vi	Flood Wall at No. 4 CW Intake Area along HUA at Area F20A	
n G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area	0 days	Sat 30/9/23	Sat 30/9/23			
n G (ix) - Bund wall modification works at South Seafront Road at 21	0 days	Fri 15/10/21	Fri 15/10/21			
n G (x) - DAX Cable Diversion Works (from Part I to Part IV) n H - All remaining works shall be completed for reporting completion	0 days 0 days	Sun 16/7/23 Sat 1/7/23	Sun 16/7/23 Sat 1/7/23			
and ready for OP inspection RAL & PRELIMINARY	228 days	Fri 4/12/20	Mon 19/7/21			
lobilization Temporary Site Office and Welfare Factiliites	18 days 90 days	Fri 4/12/20 Tue 22/12/20	Mon 21/12/20 Sun 21/3/21			
Applications & Statuary Submissions g Utilities scanning & Excavation Permit Crane erections	120 days 45 days	Mon 22/3/21 Tue 22/12/20	Mon 19/7/21 Thu 4/2/21			
ILCAL SUBMISSION AND APPROVAL proval & Consent (If required)	60 days 1021 days	Sun 27/12/20 Thu 10/12/20	Wed 24/2/21 Wed 27/9/23			
proval & Consent (If required)	0 days	Thu 10/12/20	Thu 10/12/20			
ssion and Approval of Master Programme Execuation Overal Plan submission & approval	14 days 14 days	Fri 11/12/20 Fri 11/12/20	Thu 24/12/20 Thu 24/12/20			
al Submissions and approval	300 days	Fri 25/12/20	Wed 20/10/21			
d Statement submission and approval odel, CSD & CBWD Submission & approval	300 days 120 days	Fri 25/12/20 Fri 25/12/20	Wed 20/10/21 Fri 23/4/21			
ure Steelwork Connection Design Submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21			
Cladding, louvre & windows submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21			
Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	120 days	Mon 29/3/21	Mon 26/7/21			
ubmission and BD approval Chimney windshield temporary work submission, approval &	90 days 60 days	Fri 11/12/20 Fri 11/12/20	Wed 10/3/21 Mon 8/2/21			
tion Tue Assessment Report and Design Drawings submission &	60 days	Tue 9/2/21	Fri 9/4/21			
al g Shutters Shop Drawing Submission & Approval	30 days	Thu 11/2/21	Fri 12/3/21			
e Pump System Design submission & approval	180 days 45 days	Sat 13/3/21 Wed 15/2/23	Wed 8/9/21 Fri 31/3/23	-	Sewage Pump System Design submission & approval	1
material submission & approval & delivery	180 days 180 days	Sat 24/4/21	Wed 20/10/21		4	
TRUCTION	1139 days	Fri 4/12/20	Tue 16/1/24			
allation of Puddle Pipes at C.W. outlet Culvert	562 days 7 days	Fri 15/1/21 Mon 22/3/21	Sun 28/3/21			
plate setting at L12 Turbo Block Foundation	45 days	Tue 16/11/21	Thu 30/12/21			
prate setting of notding down bolts at HHSG column base	45 days	Fri 15/1/21	Sun 28/2/21			
am / channel base installation on top of transformer foundations at	45 days	Tue 1/6/21	Thu 15/7/21			
rhead crane erection at turbine hall using access through a	38 days	Mon 1/11/21	Wed 8/12/21			
	122 days	Thu 16/12/21	Sat 16/4/22			
2-6 denser assembly and erection using access through a temporary	,0					
2-6 denser assembly and erection using access through a temporary de opening at L12 MSB below 1/F along GL 12-6 from GL12-B to						
2-6 denser assembly and erection using access through a temporary de opening at L12 MSB below 1/F along GL 12-6 from GL12-B to including a clear space below 1/F between GL 12-B to 12-C		Milestone •	Summary			
2-6 denser assembly and erection using access through a temporary de opening at L12 MSB below 1/F along GL 12-6 from GL12-B to	Split					
	odel, CSD & CBWD Submission & approval rer Steelwork Connection Design Submission & BD approval rer Steelwork Shop Drawing & Approval ladding, louvre & windows submission & BD approval ladding, louvre & windows submission & BD approval ladding, louvre & windows shop drawing submission Off Site Fabrication and Delivery (S. Steel & Cladding & louvres) ubmission and BD approval binimosy windshield temporary work submission, approval & tion liue Assessment Report and Design Drawings submission & all Shutters Shop Drawing Submission & Approval atton & Delivery of Folding Shutters e Pump System Design submission & approval atton & Delivery of Folding Shutters e Pump System Design submission & approval atton & Delivery of Sewage Pump material submission & approval & delivery ma	odel, CSD & CBWD Submission & approval re Steelwork Connection Design Submission & BD approval re Steelwork Shop Drawing & Approval 30 days 21 adding, Louvre & windows submission & BD approval 45 days 21 adding, Louvre & windows submission & BD approval 24 5 days 25 days 26 Clf Site Fabrication and Delivery (S. Steel & Cladding & Louvres) 27 Delivery & Windows Shop drawing submission and BD approval 28 Delivery & Color Steel & Cladding & Louvres) 28 Delivery & Color Steel & Cladding & Louvres) 40 days 40 days 41 days 42 days 43 days 44 days 45 days 46 days 47 days 48 days 48 days 49 d	odel, CSD & CBWD Submission & approval rer Steelwork Connection Design Submission & BD approval rer Steelwork Connection Design Submission & BD approval 30 days Fri 12/2/21 120 frier Steelwork Shop Drawing & Approval 130 days Fri 12/2/21 120 days Money Steel & Cladding & Iouvres) 120 days Mon 29/3/21 120 distriction and Delivery (S. Steel & Cladding & Iouvres) 120 days Mon 29/3/21 120 days Fri 11/12/20 121 days Mon 29/3/21 120 days Fri 11/12/20 121 days Mon 29/3/21 122 days Fri 11/12/20 122 days Fri 11/12/20 123 days Fri 11/12/20 124 days Fri 11/12/20 125 days Fri 11/12/20 126 days Fri 11/12/20 127 days Mon 29/3/21 128 days Fri 11/12/20 129 days Fri 11/12/20 120 days Fri 11/12/20 121 days Fri 11/12/20 122 days Fri 11/12/20 123 days Fri 11/12/20 124 days Fri 11/12/20 125 days Fri 11/12/20 126 days Fri 11/12/20 127 days Mon 11/12/20 128 days Fri 11/12/20 129 days Fri 11/12/20 120 days Fri 11/12/20 121 days Fri 11/12/20 122 days Fri 11/12/20 123 days Fri 11/12/20 124 days Fri 11/12/20 125 days Fri 11/12/20 126 days Fri 11/12/20 127 days Moneys Fri 11/12/20 127 days Moneys Fri 11/12/20 127 days Moneys Fri 11/12/20 128 days Fri 11/12/20 129 days Fri 11/12/20 120 days Fri 11/12/20 120 days Fri 11/12/20 120 days Fri 11/12/20 121 days Fri 11/12/2	120 days	120 days	120 days Fin 25/12/20 Fin 25/1

Tas	ik Name	Duration	Start	Finish	Feb	
	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 G12-F to 12-H including a clear space below 1/F of the above area	121 days	Fri 1/4/22	Sat 30/7/22		
	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21		
	ction A1 (i) - Area south of L12 MSB and L12 HRSG from 12-F eastwards leading to Chimney Road at Area F1 & F2	301 days	Fri 4/12/20	Thu 30/9/21		
	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21		
	Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	60 days	Sun 17/1/21	Wed 17/3/21		
	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		
	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		
	Temporary Paving and handover for plant erection Section A1 (ii) - Supporting structures for overhead cranes of	3 days 333 days	Tue 28/9/21 Fri 4/12/20	Thu 30/9/21 Mon 1/11/21		
	L12 MSB including the associated roof structure except the roof deferred workss					
	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		
	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		
	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	c.B1(ii)	
	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	967 days	Fri 4/12/20	111 20/1/20	5.B I(II)	
	BD consent for Sheetpile installation Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days	Fri 4/12/20 Fri 18/12/20	Sat 2/1/21 Sat 16/1/21		
	Area Possession & Clearance Install Sheet pile	14 days 55 days	Sat 2/1/21 Sat 16/1/21	Fri 15/1/21 Thu 11/3/21		
	indui direct pile	oo dayo				
	Installation of Additional sheet Pile at South of area F8A	7 days	Sat 17/4/21	Fri 23/4/21		
	BD Consent for ELS ELS and install COW Inlet Pipe (NW to N direction) (Assume flexible joint	28 days 100 days	Sat 24/4/21 Fri 16/7/21	Fri 21/5/21 Sat 23/10/21		
	deliver in Sep 2021) Construction of Thrust Box & Manholes,etc	15 days	Thu 16/9/21	Thu 30/9/21		
	Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area	150 days 1139 days	Wed 1/3/23 Fri 4/12/20	Fri 28/7/23 Tue 16/1/24		
4	F8B Area Possession & Clearance BD consent for Sheethile installation	30 days	Mon 1/3/21 Fri 4/12/20	Tue 30/3/21 Sat 2/1/21		
	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		
	BD Consent for ELS	28 days	Thu 1/7/21	Wed 28/7/21		
	ELS and install CW Inlet Pipe	100 days	Thu 29/7/21	Fri 5/11/21		
	Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving	15 days 200 days	Wed 1/9/21 Sat 1/7/23	Wed 15/9/21 Tue 16/1/24		
	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	961 days	Fri 12/3/21	Sat 28/10/23		
	Area Possession & Clearance Subletting / Fabrication / Delivery (for Area F8C)	30 days 60 days	Fri 12/3/21 Fri 12/3/21	Sat 10/4/21 Mon 10/5/21		
	BD consent for Sheetpile installation Install Sheet pile	30 days 62 days	Tue 13/4/21 Thu 13/5/21	Wed 12/5/21 Tue 13/7/21		
	BD Consent for ELS ELS and install CW Inlet Pipe (including soil nail installation under	35 days 76 days	Wed 14/7/21 Wed 18/8/21	Tue 17/8/21 Thu 20/1/22		
	19/83014) 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		
	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		
_	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		
	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		
	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		
	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		
	Exhaust Duct Area Possession & Clearance	30 days	Fri 1/1/21	Sat 30/1/21		
	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		
	Excavation & Construct Pile Caps & Tie Beams & Piers	86 days	Mon 8/3/21	Thu 19/8/21		
	Installation of Pipe Pile for HRSG foundation (VO)	48 days	Thu 25/3/21	Tue 11/5/21		
	Construction HRSG & Gas Duct foundations	112 days	Fri 7/5/21	Fri 3/9/21		
	Construction of HRSG Equipment Room incl. ABWF & BS (except T&C)	64 days	Tue 4/5/21	Thu 30/9/21		
	Construction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21		
	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		
	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		
	Area Possessiong and Clearance at Area F6A Subletting / Fabrication / Delivery (for Area F6A and F6C civil)	30 days 90 days	Fri 1/1/21 Sat 2/1/21	Sat 30/1/21 Thu 1/4/21		
	Construction of Underground pits (HRSG Blowdown sump pit) Excavation & Construct Pile Caps & Tie Beams & Piers	110 days 139 days	Sat 2/1/21 Mon 1/2/21	Wed 21/4/21 Sat 10/7/21		
	Construction 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		
	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		
	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		
	Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment foundations	452 days	Fri 4/12/20	Mon 28/2/22		
ı	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 reservoir					
	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21		
	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12)	150 days	Fri 25/12/20	Sun 23/5/21		
	Complete excavation at Type A&C Construction Area Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	0 days 75 days	Sun 21/3/21 Sun 31/1/21	Sun 21/3/21 Thu 15/4/21		
	Backfill and construction turbine block & equipment foundation	85 days	Tue 1/6/21	Tue 24/8/21		
	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South) Construction of internal drainage & on-grade slab Construction turbine block collumps and unper portion for plant embed	45 days 90 days	Sat 17/4/21 Wed 1/9/21 Wed 25/8/21	Mon 31/5/21 Mon 29/11/21 Mon 15/11/21		
	Construction turbine block columns and upper portion for plant embed installation Concrete Turbine upper part foundation	83 days 15 days	Wed 25/8/21 Fri 31/12/21	Mon 15/11/21 Fri 14/1/22		
	Concrete Turbine upper part foundation Construction of Lube Oil Room Concrete RC walls	60 days 115 days	Tue 30/11/21 Tue 7/9/21	Fri 14/1/22 Fri 28/1/22 Thu 30/12/21		
	ABFW Works	60 days	Thu 4/11/21	Sun 2/1/22		
	Building Services Works	45 days	Sat 15/1/22	Mon 28/2/22		
	Description of the second of t	13 days	Mon 7/2/22			
	Remove temporary falsework and scaffolding for installation of power generator	13 days	WOTI 7/2/22	Sat 19/2/22		





ontract No. 19/83002 Lamma Power Statio	Duration	Start	Finish		Master Program
Submission WW0046 for commencement Construct Underground utilities and drainage	30 days 60 days	Thu 8/6/23 Sat 8/7/23	Fri 7/7/23 Tue 5/9/23	Feb Mar	Apr May
Install new FS Hydrant Submission WWO046 for completion	15 days 30 days	Wed 6/9/23 Thu 21/9/23	Wed 20/9/23 Fri 20/10/23		
Construction Road extension Complete with Mis. Works for completion	15 days 15 days	Thu 21/9/23 Fri 6/10/23	Thu 5/10/23 Fri 20/10/23		
Section G (iii) - FS Modification works along South Seafront Road at Area F15	183 days	Fri 1/4/22	Fri 30/9/22		
Area Possession & Clearance after handover from other Subletting / Fabrication / Delivery	45 days 21 days	Fri 1/4/22 Fri 1/4/22	Sun 15/5/22 Thu 21/4/22		
Temporary Traffice Arrangement approval Utilities scanning and expose existing FS Determine new FS alignment	14 days 14 days 21 days	Fri 1/4/22 Fri 15/4/22 Fri 29/4/22	Thu 14/4/22 Thu 28/4/22 Thu 19/5/22		
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		
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	c.E4	
Area Possession & Clearance	60 days	Sat 1/5/21	Tue 29/6/21		
Subletting / Fabrication / Delivery	210 days	Wed 17/11/21	Tue 14/6/22		
Temporary Traffice Arrangement approval Removal of aboveground services	60 days 60 days	Sat 1/5/21 Wed 30/6/21	Tue 29/6/21 Sat 28/8/21		
Utilities scanning and expose exising UU Arrange of diversion existing UG utilities	30 days 90 days	Sun 29/8/21 Tue 28/9/21	Mon 27/9/21 Sun 26/12/21		
Construct new cable trenches Realigment / install new UG utilities	550 days 30 days	Mon 27/12/21 Fri 23/6/23	Thu 29/6/23 Sun 23/7/23		
Backfill and reinstate & ready for cable laying by others Section G (v) - Shunt Reactor Compound and External Works at	45 days 912 days	Sat 1/7/23 Fri 4/12/20	Mon 14/8/23 Sat 3/6/23		
Area F17 Temporary Traffice Arrangement approval	45 days	Fri 4/12/20	Sun 17/1/21		
Subletting / Fabrication / Delivery	100 days	Fri 25/12/20	Sat 3/4/21		
BD approval & consent for pipe pile installation Area Possession & Clearance	100 days 90 days 14 days	Fri 4/12/20 Thu 4/3/21	Wed 3/3/21 Wed 17/3/21		
Removal of aboveground services Utilities scanning and expose exising UU	21 days 15 days	Thu 18/3/21 Thu 8/4/21	Wed 7/4/21 Thu 22/4/21		
Arrange of diversion existing UG utilities	45 days	Fri 23/4/21	Sun 6/6/21		
Install pipe piles BA14 for pipepile and BD consent for ELS	61 days 28 days	Sun 23/5/21 Fri 23/7/21	Thu 22/7/21 Thu 19/8/21		
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		
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		_
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	Wall finish and remove scaffold	Construct new cable trenches
Install new UG Utilties, Backfill and reinstate & ready for cable laying by	55 days	Thu 7/4/22	Tue 31/5/22		
Others for DAX1 Realigment / install new UG utilities (for DAX2, APX1 & APX3)	30 days	Tue 4/4/23	Thu 4/5/23		Realigment / install new
Backfill and reinstate & ready for cable laying by others (for DAX2, APX1, & APX3)	30 days	Thu 4/5/23	Sat 3/6/23		<u>*</u>
Section G (vi) - 275kV cable trenches and External Works at Area F18	397 days	Sat 1/5/21	Wed 1/6/22		
Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery Area Possession & Clearance	45 days 60 days	Sat 1/5/21 Tue 15/6/21 Sat 1/5/21	Mon 14/6/21 Fri 13/8/21 Sat 15/5/21		
Removal of aboveground services Utilities scanning and expose exising UU	15 days 30 days 45 days	Sun 16/5/21 Tue 15/6/21	Mon 14/6/21 Thu 29/7/21		
Arrange of diversion existing UG Arrange of diversion existing UG Construct new cable trenches	60 days 172 days	Fri 30/7/21 Tue 28/9/21	Mon 27/9/21 Fri 18/3/22		
Realigment / install new UG utilities Backfill and reinstate & ready for cable laying by others	45 days 30 days	Sat 19/3/22 Tue 3/5/22	Mon 2/5/22 Wed 1/6/22		
Section G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A	803 days	Fri 4/12/20	Tue 14/2/23	— 4 Feb '23	
Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21		
Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	60 days 300 days	Fri 25/12/20 Fri 4/12/20	Mon 22/2/21 Wed 29/9/21		
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		
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		
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		
Realigment / install new UG utilities Backfill and construct new carriageway	30 days 300 days	Wed 16/3/22 Fri 15/4/22	Thu 14/4/22 Wed 8/2/23	Backfill and construct rew carriageway	
Mis. Work for completion Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA	6 days 729.5 days	Thu 9/2/23 Fri 1/10/21	Tue 14/2/23 Sat 30/9/23	Mis. Work for completion	
at Area F20B Area Possession & Clearance	45 days	Fri 1/10/21	Sun 14/11/21		
Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	90 days	Fri 22/10/21 Fri 1/10/21	Wed 19/1/22 Thu 14/10/21		
ELS BD approval & consent	14 days 90 days	Fri 15/10/21 Fri 1/10/21	Wed 12/1/22 Thu 22/6/23		
Demolition of existing carriageway Removal of aboveground services Utilities scanning and expose exising UU	630 days 21 days 21 days	Tue 20/6/23 Wed 5/7/23	Tue 11/7/23 Wed 26/7/23		
Arrange of diversion existing UG utilities Install Sheetpiles	30 days 55 days	Sun 23/7/23 Thu 10/2/22	Tue 22/8/23 Tue 5/4/22		
BA14 for sheetpile and BD consent for ELS Excavation and construction of new Flood wall	28 days 30 days	Wed 6/4/22 Wed 26/7/23	Tue 3/5/22 Fri 25/8/23		
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		
Mis. Work for completion Section G (ix) - Bund wall modification works at South Seafront	9 days 316 days	Thu 21/9/23 Fri 4/12/20	Sat 30/9/23 Fri 15/10/21		
Road at Area F21 Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21		
Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	90 days 165 days	Fri 25/12/20 Fri 4/12/20	Wed 24/3/21 Mon 17/5/21		
ELS BD approval & consent Demolition of existing carriageway	0 days 14 days	Thu 17/12/20 Tue 18/5/21	Thu 17/12/20 Mon 31/5/21		
Removal of aboveground services Utilities scanning and expose exising UU	14 days 21 days	Tue 1/6/21 Tue 15/6/21	Mon 14/6/21 Mon 5/7/21		
Arrange of diversion existing LIC utilities (include ES = include 47/2000)	40 dove	Tuo 6/7/01	Co+ 14/0/01		
Arrange of diversion existing UG utilities (include FS pipe under 17/8002) Excavation and expose existing bund wall & demolish	40 days	Tue 6/7/21 Wed 28/7/21	Sat 14/8/21		
Excavation and expose existing bund wall & demolish Construction new bund wall for road junction	18 days 21 days	Wed 28/7/21 Sat 4/9/21	Sat 14/8/21 Fri 24/9/21		
Realigment / install new UG utilities (include FS pipe under 17/8002)	60 days	Sun 1/8/21	Wed 29/9/21		
Backfill and construct new carriageway Mis. Work for completion	16 days 5 days	Thu 30/9/21 Mon 11/10/21	Fri 15/10/21 Fri 15/10/21		
Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	955 days	Fri 4/12/20	Sun 16/7/23		
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		
Area Possession & Clearance Identification of existing cable trench	45 days 7 days	Fri 4/12/20 Mon 18/1/21	Sun 17/1/21 Sun 24/1/21		
Part 1 Re-excavation works incl.construction of joint bay (at Water Reservoir Road)	246 days	Mon 25/1/21	Mon 27/9/21		
Part 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	310 days	Mon 25/1/21	Tue 30/11/21		
Part 2 Re-excavation works incl. joint bay	120 days	Mon 1/11/21	Mon 28/2/22		- was the water led to be to
Part 3 Re-excavation works incl. joint bay	500 days	Mon 1/11/21	Wed 15/3/23	Part 3 Re	e-excavation works incl. joint bay
TER PROGRAMME -B 23 Aug 2021 Paul Y Task	Split	Milestone •	Summary	•	

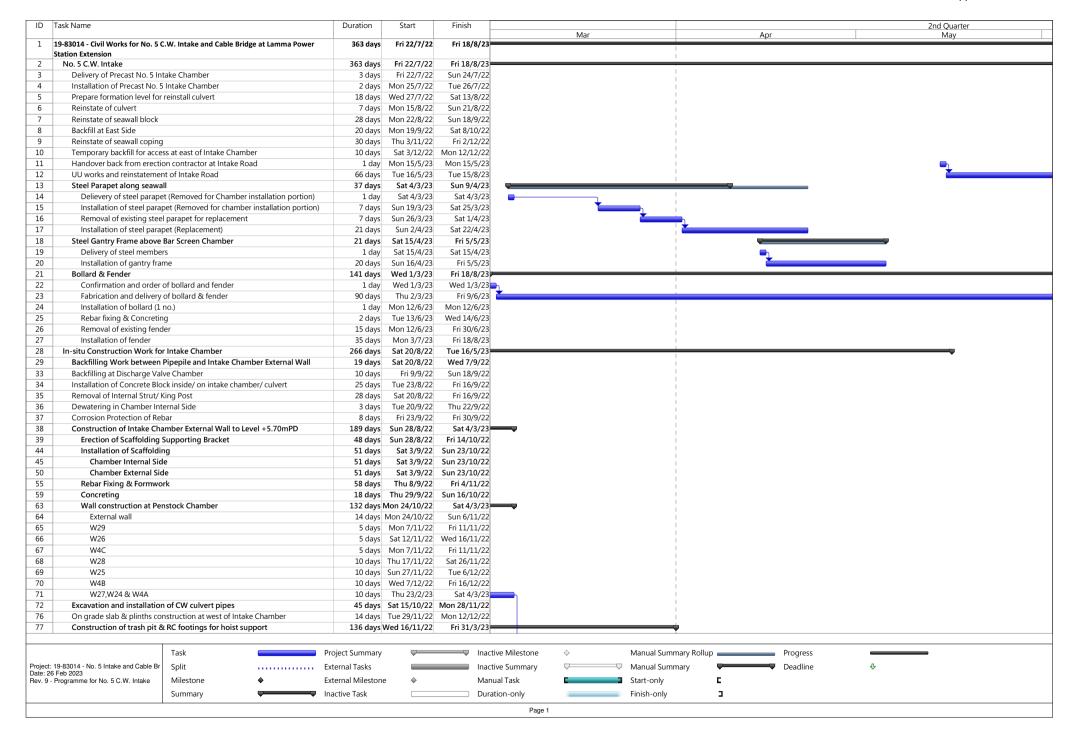


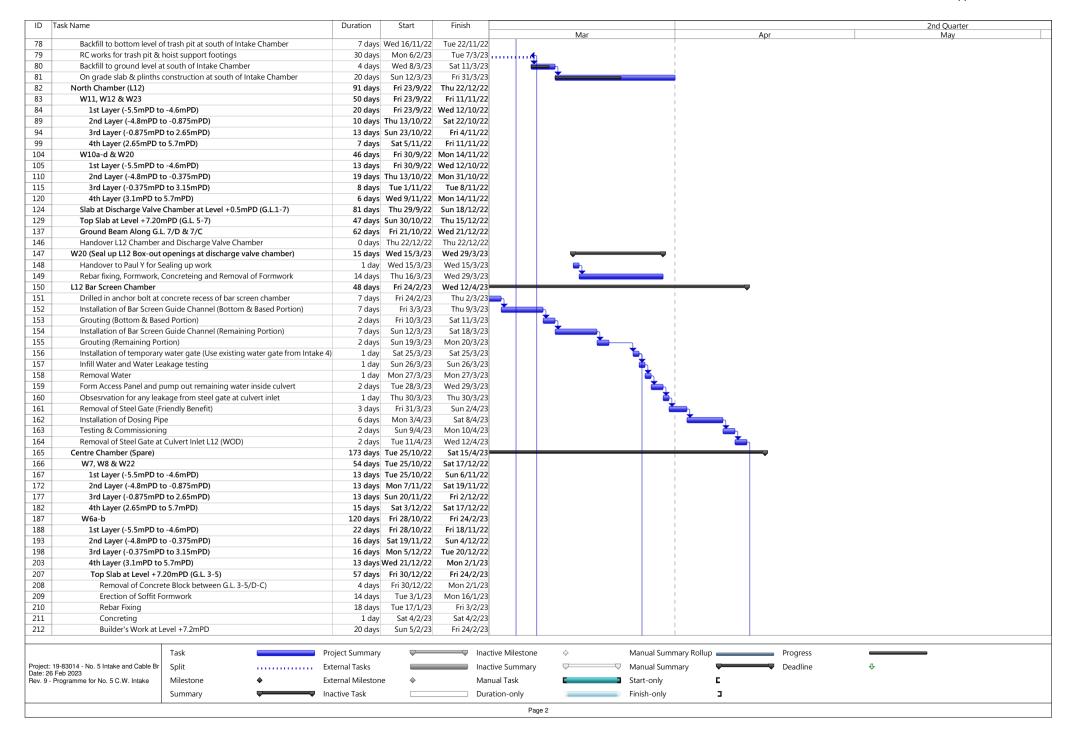
ID	Task Name	Duration	Start	Finish	Feb	Mar	1st Quarter	Anr		Mav
51	BD: Obtain Occupation Permit (OP) from BD	1 day	Fri 21/7/23	Fri 21/7/23	180	Mdi		- Ди		may
62	As-Built Drawings & Handover Documentation	120 days	Mon 1/5/23	Mon 28/8/23					1 May '23 🔍	
33	Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Mon 1/5/23	Wed 14/6/23						
64	Review and Approval	45 days	Thu 15/6/23	Sat 29/7/23						
35	As-Built Drawings & Handover Documentation - Revision by MC	30 days	Sun 30/7/23	Mon 28/8/23						
66	Revised As-Built Drawings & Handover Documentation - Final Submission	0 days	Mon 28/8/23	Mon 28/8/23						
67	Completion of the Whole Contract Works	119 days	Sat 22/7/23	Fri 17/11/23						
58	1st Client Inspection for Review and Comments	30 days	Sat 22/7/23	Sun 20/8/23						
59	Defects and Rectification works	60 days	Mon 21/8/23	Thu 19/10/23						
70	2nd Client Inspection	14 days	Fri 20/10/23	Thu 2/11/23						
71	Minor Defects Rectification Works and Final Inspection	15 days	Fri 3/11/23	Fri 17/11/23						
72	PRACTICAL COMPLETION	0 days	Fri 17/11/23	Fri 17/11/23						

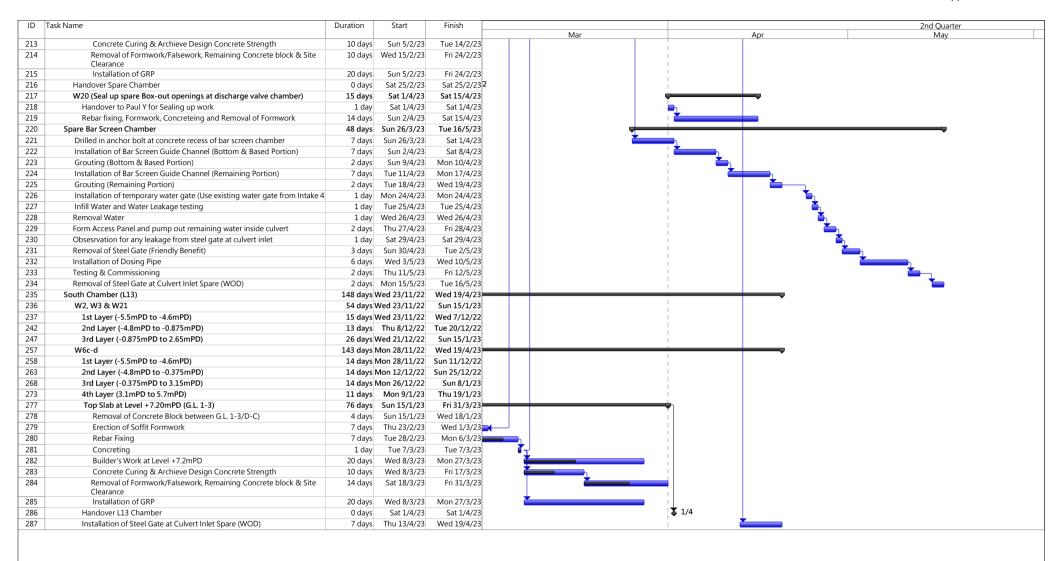
MASTER PROGRAMME Rev 1-B 23 Aug 2021

Split Milestone

Summary -

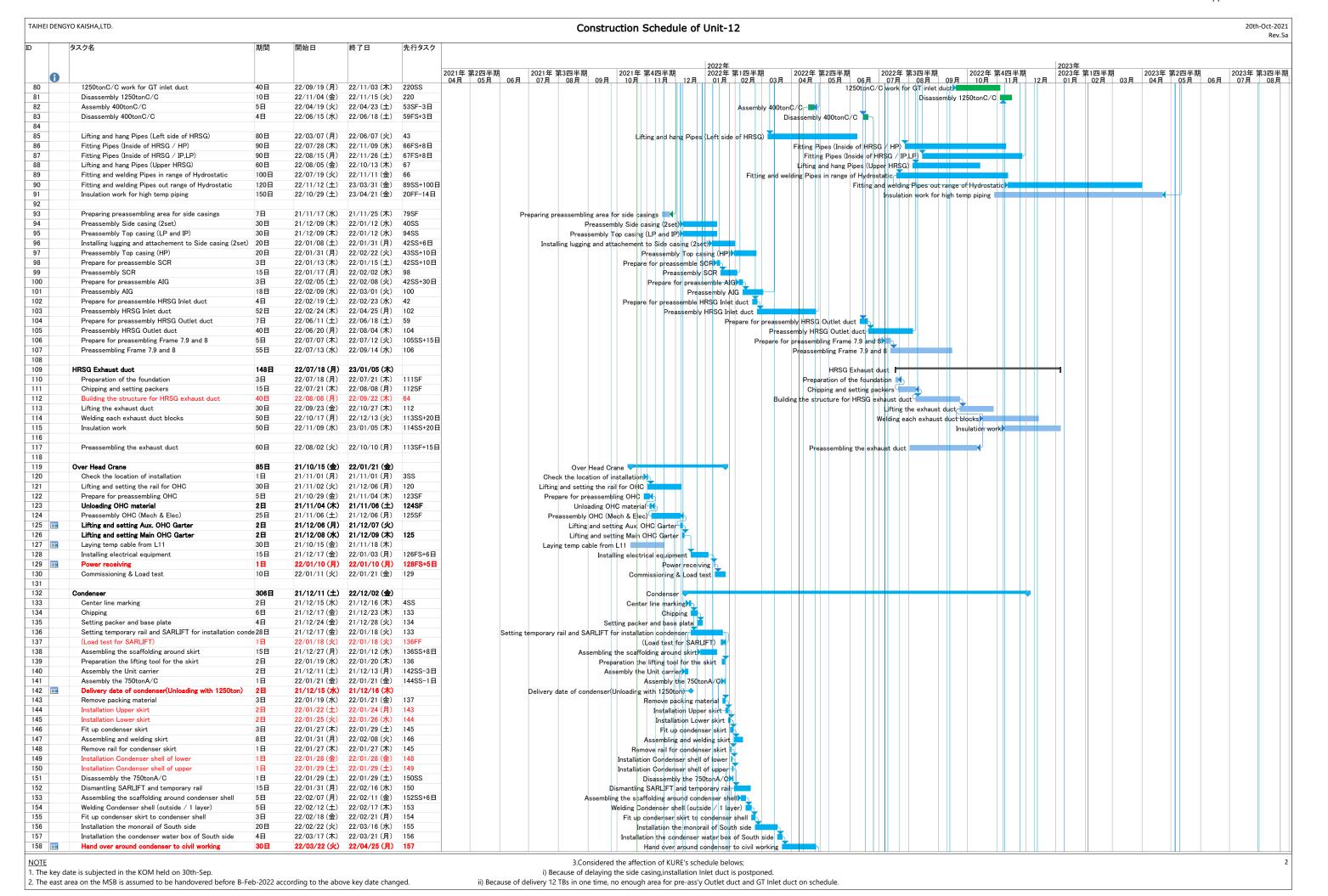








タフ	スク名	期間	開始日	終了日	先行タスク	Construction Schedule of Unit-12
		- 221-2				2022年
12	au Data	E07 🗖	01/10/01/4	00 (00 (07 (44)	2021年 第2	<u> 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 08月 07月 08月 08月 08月 08月 08月 08月 08月 08月 08月 08</u>
	•	527日 1日	21/10/01 (金) 21/10/01 (金)			Key Date 06/07 H/O HRSG Foundation 10/01
		1日	21/11/01 (月)			H/O OHC Installation ◆ 11/01
1	H/O Condenser foundation	1日	21/12/15 (水)	21/12/15 (水)		H/O Condenser foundation ◆ 12/15
	H/O Aux. equipment foundation of HRSG north side	1日	21/11/15(月)	21/11/15(月)		H/O Aux. equipment foundation of HRSG north side 🥎 11/15
		1日	22/02/01 (火)			H/O GT Exhaust duct foundation (Assumed) ♦ 02/01
		1日	22/02/01 (火)	22/02/01 (火)		H/O MSB East side (Assumed) → 02/01
_	•	1日 1日	22/01/15(土)			MSB Full access (Except P/T foundation) → 01/15
		1日	22/01/15(土) 22/03/10(木)			H/O Foundation around CCW-Cooler ♦ 01/15
		18	22/03/10(木)			H/O Foundation around Transformer ◆ 03/10 H/O Foundation of Powertrain-◆ 04/15
		5日	22/04/15(金)			Delivery date of Powertrains (GT,GEN,ST,GEN Tx) • 04/20
	- · · · · · · · · · · · · · · · · · · ·	1日	22/07/15 (金)			0/B GT & GEN→ 07/15
	Power Receiving	1日	22/11/15 (火)	22/11/15 (火)		Power Receiving ◆ 11/15
III	H/O Foundation of No5 Intake area	1日	22/09/30(金)	22/09/30(金)		H/O Foundation of No5 Intake area • 09/30
HI .	Hydrostatic test	10日	22/12/03 (土)			Hydrostatic test ◆ 12/03
	Beginning Closed cooling water system flushing (Target)			22/12/14 (水)	18SS-30日	Beginning Closed cooling water system flushing (Target) ◆ 12/14
	5	1日		23/01/18 (水)	208SS	Receiving Lube Oil → 01/18
		1日		23/02/10(金)	18SS+20日	Beginning CW system commissioning ◆ 02/10
	~	1日 1日		23/05/08(月) 23/06/07(水)	213 20FS+25日	GT First Firing 05/08 Synchronization 06/07
	_ys.n sineación		25, 55, 67 (75)		20.0 201	
HE	RSG	577日	21/10/01 (金)	23/08/04 (金)		HRSG V
		2日		21/10/02 (土)	2SS	Make the condition for construction
		3日	21/10/01 (金)	21/10/04(月)	24SS	Center line marking)
		15日		21/10/18(月)	24SS	Chipping
	-	10日		21/10/15(金)	26SS+3日	Packer setting Packer
	•	10日			27SS+4日	Lay down Pipes under HRSG
		9日 3日		21/10/30(土)	28	Short legs setting
		3日 6日		21/11/01 (月) 21/11/06 (土)	31SF	Prepare for installing Bottom casing
		35日			31	Lifting and installing Bottom casing Welding Short legs and Bottom casing
	0 0	35日		21/12/17(金)		Setting and walding Brace guesat
		35日		21/12/17(金)		Setting and welding SCR bottom frame
		17日			31	Setting FL+2.5m floor structure
	-	10日			35	Putting pipes on bottom casing
		2日	21/10/27 (水)	21/10/29 (金)	38SF-10⊟	HRSG Blow down tank
	• • • • • • • • • • • • • • • • • • • •	40日		21/12/25 (土)	31FS+2日	KURE pipe rack (North on HRSG)
	55 5	17日		21/12/14 (火)	32SS+15日	Insulation and lagging on Bottom casing
		2日		21/12/10 (金)		Unloading Side casing and Top Casing #1
		4日		21/12/17 (金)	142SS-1日	
		42日 40日			94SS+20日	Lifting and installing Side casing
	0 1 0	2日		22/03/05(土) 22/02/04(金)	42SS+15日 99	Lifting and installing Top casing
		2日		22/03/15 (火)		Lifting and installing AIG
	Unloading Side casing and Top Casing #2	1日		22/01/07 (金)		Unloading Side casing and Top Casing #21
	Installation of piping, header, support, EXP inside HRSG	40日	22/01/25 (火)	22/03/11 (金)	42SS+20日	Installation of piping, header, support, EXP inside HRSG
	Lifting and installing HRSG Inlet duct	2日	22/04/26 (火)	22/04/27 (水)	103	Lifting and installing HRSG Inlet duct
	Setting FL+29m floor structure (The part of over hang)			22/05/09(月)	48FF+10日	Setting FI +29m floor structure (The part of over hang)
		8日		22/04/19 (火)	49SS+30日	Lifting Down comer piping (after pre-assembling)
		10日		22/05/09(月)	49FS-10日	Prepare Lifting Tube buridle (Around HRSG)
		2日 3日		22/04/16(土)		Suspend outside work for transportation of GEN TX
		3日 3日		22/04/30 (土) 22/05/04 (水)		Prepare unloading Tube bundle (Storage area) Unloading Tube bundle #1 (3set)
	-	3日 3日		22/05/07 (土)		Prepare installing Tube bundle #1 (3set)
	•	5日		22/05/14 (土)		Lifting and installing Tube bundle #1 (3set)
		5日		22/05/20 (金)		Unloading Tube bundle #2 (12set)
		3日				Prepare installing Tube bundle #2 (12set)
		15日		22/06/10 (金)		Lifting and installing Tube bundle #2 (12set)
		30日		22/06/28 (火)		Setting FL+29m floor structure (Above tube bundle)
		1日		22/06/02(木)	60SS+10日	Lifting and setting HP-Drum
	5 5	1日 1日		22/06/23(木)		Lifting and setting IP-Drurt
		1日 2日		22/07/06 (水) 22/08/06 (土)		Lifting and setting LP-Drum Lifting and installing HRSG Outlet duct ◆
	Suspend outside work for transportation of GT & GEN			22/07/21 (木)		Suspend outside work for transportation of GT & GEN
	·	10日		22/07/18 (月)		Adjusting HDR level (HP)
		15日		22/08/04 (木)		Adjusting HDR level (IP & UP)
		25日		22/09/16 (金)		Liffing Frame 7,9 and 8
		10日				HRSG roof structure (main beam)
		100日		22/12/01 (木)		Setting roof structure (Including deferrable structure)
		5日		22/09/05(月)		Lifting and setting the silencer of HRSG)
		40日		22/11/02 (水)		
	•	100日		23/03/23(木)		Assembly accessory inside HRSG
		10日 30日				Hydrostatic test of HRSG
		30日 90日	22/10/27(木)	22/12/01 (木) 23/03/15 (水)	103F	Excavation the foundation of UTAC (By Civil)
		20日		23/03/13 (水)	21FS+30∃	Urea to Ammonia conversion system Installation the SCR catalyst
		_~ 🛏	20, 31, 13 ()()	25, 55, 54 (並)	-11 5:55H	Installation the SCR catalyst
	Assembly 1250ton C/C	10日	21/11/25 (木)	21/12/06 (月)		Assembly 1250ton C/C
	<u> </u>	-		/		
						3.Considered the affection of KURE's schedule belows;



20th-Oct-2021

Construction Schedule of Unit-12 Rev.5a タスク名 開始日 終了日 先行タスク 2022年第1四半期 2022年第1四半期 12月 01月 02月 03月 04月 05月 06月 2021年 第2四半期 2021年 第3四半期 2021年 第4四半期 2022年 第3四半期 2022年 第4四半期 2023年 第1四半期 2023年 第2四半期 | 2022年 第5日 中海 | 2022年 第4日 中海 | 2023年 第1日 中海 | 2023年 05月 06月 07月 08月 159 22/04/26(水) 22/04/29(金) Condenser tube cleaning unit 4 FI 158 160 Installation the CW pipe 45 FI 22/04/26(火) 22/06/16(木) 158 Installation the CW pipe Assembling Exp.J Welding Exp.J 161 🎹 Assembling Exp.J 1日 22/11/21(月) 22/11/21(月) 193,196 162 Welding Exp.J 10日 22/11/22(火) 22/12/02(金) 163 164 504日 22/01/12 (水) 23/08/22 (火) GT/ST/Generator GT/ST/Generator 165 Setting template for anchor bolts 40日 22/01/12(水) 22/02/28(月) mplate for anchor bolts 166 Concreteing work by PDC/PY 40日 22/02/28(月) 22/04/15 (金) 167SF Concreteing work by PDC/PY 167 14日 22/04/15 (金) 22/04/30(土) Remove templates 168 Center line marking 5⊟ 22/05/02(月) 22/05/06(金) Center line marking Chipping ___ 169 10日 22/05/07(土) 22/05/18(水) 168 Chipping 22/05/19(木) 22/06/04(土) 169 Packer setting 170 15日 Packer setting 171 Setting the base plate Setting the base plate 7日 22/06/06(月) 22/06/13(月) 170 172 7日 22/06/14(火) 22/06/21(火) 171 Setting the bearing case Setting the bearing case 173 18 22/06/22 (7k) 22/06/22 (7k) Lay down pines under GT 172 Lay down pipes under GT 174 Lay down pipes under ST 3⊟ 22/06/23(木) 22/06/25(土) 173 Lay down pipes under ST 175 IP/LP-MSV Lifting and setting 5 FI 22/06/18(土) 22/06/23(木) 173FF+1 FI IP/LP-MSV Lifting and setting 176 Lifting and hanging EB01 1日 22/06/13(月) 22/06/14(火) 178SF-2 FI Lifting and hanging EB01 177 Unloading the Gantry system for GT 1日 22/06/07 (火) 22/06/08 (水) 178SF-7 FI Unloading the Gantry system for GT < 06/08 178 Setting the Gantry system for GT 22/06/16(木) 22/07/11(月) 179SF 21日 Setting the Gantry system for GT Load test for Gantry system 179 Load test for Gantry system 2日 22/07/11(月) 22/07/13 (7k) 186SF-2E 180 | | | | 22/04/15 (金) 22/04/15 (金) Delivery date of Powertrains Delivery date of Powertrains ◆ 04/15 22/04/15 (金) 181 22/04/15 (金) GEN Transformer O/B ST Lower casing Unloaded and store (with OHC) 182 22/04/16(土) 22/04/16(土) ST Lower casing Unloaded and store (with OHC) 183 Generator Unloaded and store 22/04/18(月) 22/04/18 (月) Generator Unloaded and store 184 GT Unloaded and store 3日 22/04/19(火) 22/04/21(木) GT Unloaded and store 185 GT & GEN stored at site 63 ⊟ 22/05/05(木) 22/07/18(月) 188SF GT & GEN stored at site 186 GT O/B (with Gantry) 18 22/07/15 (金) 22/07/15 (金) 1388 GT O/B (with Gantry 07/15 187 Setting the Gantry crane for GEN 22/07/16(±) 22/07/16(±) 186 18 Setting the Gantry crane for GEN I GEN O/B (with Gantry) 07/18 188 18 22/07/18(月) 22/07/18(月) 187 GEN O/B (with Gantry) ST Lower casing O/B (with OHC) 189 18 22/07/20 (大) 22/07/20 (大) 188FS+1日 Lower casing O/B (with OHC) 190 22/07/19(火) 22/08/04(木) Dismantling the Gantry system 15 ⊟ 188 nantling the Gantry system 22/08/11(木) 22/09/15(木) 190FS+5 FI 191 Lifting and setting ST 31 FI Lifting and setting ST ST Rotor 192 ST Rotor 18 22/09/09(金) 22/09/09(金) 191SS+25E 193 Final alignment for ST 30 H 22/09/10(土) 22/10/14(金) 192 Final alignment for ST ST Upper Casing 194 1日 22/10/15(土) 22/10/15(土) 193 ST Upper Casing 195 HP-MSV lifting and setting 5日 22/09/10(土) 22/09/15(木) 192 HP-MSV lifting and setting 196 Adjust the gap between Rotor and casing 30日 22/10/17(月) 22/11/19(土) 194 Adjust the gap between Rotor and casing 197 22/11/21(月) 22/12/19(月) Grouting ST 25日 Grouting ST 198 22/11/26(土) 23/01/06(金) 208SF-10日 Installing accessories 35日 Installing accessorie 199 22/09/09(金) 22/10/13(木) Installing IPB 30日 Installing IPB 200 First alignment of GT and GEN 50 ⊟ 22/07/27(水) 22/09/22(木) First alignment of GT and GEN Grouting GEN and GT 22/09/23(金) 22/10/21(金) Grouting GEN and GT 201 25日 200 202 20日 22/10/05(水) 22/10/27(木) 201SS+10日 GT enclosure (Lower) GT enclosure (Lower) 203 Installting pipes and accessories to GT 22/10/22(土) 23/03/10(金) 120日 Installting pipes and accessories to GT Assembly slip ring, lead box and accessories to GEN 204 Assembly slip ring, lead box and accessories to GEN 28日 22/10/22(土) 22/11/23 (水) 201 205 22/11/21(月) 22/12/13(火) Assembly 3S clutch 20 ⊟ 193.196 Assembly 3S clutch 206 Final alignment Final alignment 30 FI 22/12/14 (水) 23/01/17 (火) 205 207 Joint coupling Joint coupling 10日 23/01/18 (7k) 23/01/28 (±) 206 208 Lube oil flushing 75 FI 23/01/18 (水) 23/04/14 (金) 206 Lube oil flushing 209 Installation GT enclosure 40 FI 22/12/31 (土) 23/02/15 (水) 206SS+15 ⊟ 210 Installation ST enclosure 50 FI 22/12/02(金) 23/01/28(十) 197SS+10日 tallation ST enclose 211 Door fan test 2日 23/04/19 (水) 23/04/21 (金) 212SF-2日 Door fan test K 212 10日 23/04/24(月) 23/05/05(金) 213SF-1日 Blowing out Blowing out 213 1日 23/05/06(土) 23/05/06(土) 74FS+122日 First Fire 214 23/07/31(月) 23/08/22(火) 21FS+45日 Remove temporary strainer 20日 ve temporary strainer 215 22/06/17(金) 23/04/29(土) 216 GT Air inlet 271日 Center line marking 217 Center line marking 2日 22/09/05(月) 22/09/07(水) 218SF 22/09/07(水) 22/09/19(月) 220SF 218 10日 Setting the base plate Setting the base plate 219 ly the Air inlet duct Lifting and installation the Air inlet duct (Vertical) 220 Welding Air inlet duct (Vertical) 221 Welding Air inlet duct (Vertical) 22/09/30(金) 22/11/26(土) 220SS+10日 50日 Lifting and installation the Air inlet filter 222 Lifting and installation the Air inlet filter 22/11/28(月) 23/01/18(水) 45日 221 Welding Air inlet filter 223 Welding Air inlet filter 70 日 22/12/09(金) 23/02/28(火) 222SS+10日 Lifting and assembly the Air inlet manifold 224 4 FI 22/09/30(金) 22/10/05(水) 202SF Lifting and assembly the Air inlet manifold 225 Lifting and installation the Air inlet duct (Horizontal) 8日 22/10/05 (水) 22/10/13 (木) 224 ing and installation the Air inlet duct (Horizontal) 226 Automatic roller shutter 2日 22/10/14(金) 22/10/15(土) 225 Automatic roller shutter 227 Welding Air inlet duct (Horizontal) 25日 22/10/14(金) 22/11/11(金) 225 (elding Air inlet duct (Horizontal) 228 Filter element installation 5日 23/04/24(月) 23/04/29(土) 20SF-7日 229 230 Auxiliary Equipment (O/B) 421日? 21/11/10 (水) 23/03/15 (水) Auxiliary Equipment (0/B) 231 1&3 around Power Train & North east of MSB 224日 22/01/15(土) 22/10/03(月) 1&3 around Power Train & North east of MSB 22/01/15(土) 22/01/26 (水) 232 Chipping and packer setting 10日 Chipping and packer setting 233 Seal oil unit 2日 22/06/01(水) 22/06/03(金) Seal oil unit 234 H2 cooler 2日 22/06/03 (金) 22/06/06 (月) 235SF H2 cooler 235 Platform under the GEN 5⊟ 22/06/06(月) 22/06/11(土) 178SF-4日 nder the GEN Platfo 236 Temp hanging Main Steam Piping with scaffolding 25日 22/02/11(金) 22/03/11(金) 240 Temp hanging Main Steam Piping with scaffolding 237 22/02/02 (水) 22/02/03 (木) 232FS+5日 2日 Sampling system Sampling system 3. Considered the affection of KURE's schedule belows: 1. The key date is subjected in the KOM held on 30th-Sep. i) Because of delaying the side casing, installation Inlet duct is postponed.

ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule

TAIHEI DENGYO KAISHA.LTD.

2. The east area on the MSB is assumed to be handovered before B-Feb-2022 according to the above key date changed.

20th-Oct-2021

Construction Schedule of Unit-12 Rev.5a タスク名 終了日 先行タスク 2022年
2021年 第2四半期 2021年 第3四半期 2021年 第4四半期 2022年 第1四半期 2022年 第2四半期 2022年 第3四半期 2022年 第4四半期 2023年 第1四半期 2023年 第2四半期 2023年 第3四半期 2023年 第3回半期 2023年 2021年 第2四半期 238 2 FI 22/02/04(金) 22/02/05(土) 237 Light oil drain unit GT purge air compressor 🛴 239 GT purge air compresso 2日 22/02/07(目) 22/02/08(火) 238 240 GT purge are reservoir 2日 22/02/09 (水) 22/02/10 (木) 239 GT purge are reservoir 241 Light oil flow divider unit & platform 2日 22/09/23(金) 22/09/24(土) 202SS-10日 Light oil flow divider unit & platform 242 GT Purge air unit 2日 22/09/23(金) 22/09/24(土) 202SS-10日 GT Purge air unit 243 2日 22/10/01(土) 22/10/03(月) 241FS+5日 Fuel gas unit Fuel gas unit 245 2 MSB Inside North-West 233日? 22/01/15(土) 22/10/13(木) 2 MSB Inside North-West Temporary floor above ST Blowdown tank 22/01/15(土) 22/02/01(火) 8SS 246 15日 Temporary floor above ST Blowdown tank 22/01/27(木) 22/02/07(月) 247 Chipping and packer setting 10日 Chipping and packer setting 248 4⊟ 22/02/11(金) 22/02/15(火) 240 Preparation hauling equipment Preparation hauling equipment 3日 248 249 Condenser water box 22/02/16(水) 22/02/18(金) Condenser water box 250 Closed cooling water pump 22/02/19(土) 22/02/21(月) 249 2日 Closed cooling water pump 251 2⊟ 22/02/22 (火) 22/02/23 (水) 250 Condenser vacuum pump Condenser vacuum pump 252 2日 22/02/24(木) 22/02/25(金) 251 Dismantling hauling equipment Dismantling hauling equipment 253 ST blow down tank 18 22/02/24(木) 22/02/24(木) 251 ST blow down tank 254 GT casing cooling fan 18 22/02/25(金) 22/02/25(金) 253 GT casing cooling fan 255 GT compressor blade washing device 18 22/02/26(土) 22/02/26(土) 254 GT compressor blade washing device 256 Building MSB North structure 40 FI 22/04/15(金) 22/05/31(火) 166 Building MSB North structur \$T Blow down tank structure 257 ST Blow down tank structure 20 日 22/04/30(土) 22/05/23(月) 253FS+55日 258 === Pre-assembly structure for Air inlet duct access 30日 22/05/03 (火) 22/06/07 (火) 259SF Pre-assembly structure for Air inlet duct access 259 Building structure for Air inlet duct access 2 FI 22/06/07(火) 22/06/08(水) 256FS+5日 Building structure for Air inlet duct access 260 Closed cooling water stand pipe 10日 22/06/09(木) 22/06/20(月) 259 Closed cooling water stand pipe 261 Installing IPB 22/09/09(金) 22/10/13(木) 190FS+30日 30日 Installing IPB 262 ST Blowdown pit sump pump 2日 22/02/24(木) 22/02/25(金) 253SS ST Blowdown pit sump pump 263 264 6 MSB Inside South-West 216日 22/02/11 (金) 22/10/20 (木) 6 MSB Inside South-West Chipping and packer setting 265 22/02/28 (月) 22/03/10 (木) 255 Chipping and packer setting 10日 22/03/11(金) 22/03/12(土) 265 266 === 2日 Condensate extraction pump Condensate extraction pump 266SS 267 CEP access stair 22/03/11(金) 22/03/11(金) 1日 CEP access stair 268 Trip valve unit 18 22/03/12(±) 22/03/12(±) 269SS Trip valve unit 269 === 18 22/03/12(土) 22/03/12(土) 267 Control oil unit Control oil unit 270 Building MSB South structure 22/02/11(金) 22/03/11(金) 240 25 FI Building MSB South structure Gland condenser and fan 22/03/01(火) 22/03/01(火) 270SS+15日 271 Gland condenser and fan 18 272 Plant and Instrument air receiver 2日 22/10/17(目) 22/10/18(火) 273SS Plant and Instrument air receive 273 Plant air compressor 2日 22/10/17(月) 22/10/18(火) 194 Plant air compressor 274 Instrument air dryer 2日 22/10/19 (水) 22/10/20 (木) 273 275 CEP pit sump pump 2日 22/03/14(月) 22/03/15(火) 266 CEP pit sump pump 276 Condenser hotwell pit sump pump 22/03/16(水) 22/03/17(木) 275 Condenser hotwell bit sump pump 277 278 22/03/05(土) 23/02/24(金) 7 Lube oil room 306日 279 Chipping and packer setting 10日 22/03/05(土) 22/03/16(水) 265SS+5 ⊟ Chipping and packer setting 22/03/17(木) 22/03/17(木) 279 280 Disassemble structure 1日 Disassemble structure 281 🏢 22/03/18(金) 22/03/18(金) Lube oil reservoir 1日 Lube oil reservoir 22/03/18(金) 22/03/18(金) 282 Assemble structure 1日 281SS Assemble structure 283 22/03/17(木) 22/04/02(土) 280SS Open floor 15日 Open floor Lube oil filter with structure 2⊟ 22/03/19(土) 22/03/21(月) 283SS+2日 284 Lube oil filter with structure 285 Lube oil cooler 1 H 22/03/19 (±) 22/03/19 (±) 284SS Lube oil cooler JOP for GEN 286 2⊟ 22/03/22 (火) 22/03/23 (水) 284 JOP for GEN 287 JOP for ST 2日 22/03/22 (水) 22/03/23 (水) 284 JOP for ST 288 Lube oil purifier unit 2⊟ 22/03/22 (火) 22/03/23 (水) 284 ube oil purifier unit 289 Lube oil transfer pump 2日 22/03/22 (東) 22/03/23 (水) 284 Lube oil transfer pump 290 Lube oil accumulator 1日 22/03/22(火) 22/03/22(火) 284 Lube oil accumulator 291 Lifting piping into Lube oil room 20 日 22/03/23 (水) 22/04/14 (木) 290 Lifting piping into Lube oil roo 292 TCA filter 1日 22/09/10(土) 22/09/10(土) 193SS TCA filter 293 TCA filter support 8日 23/02/16(木) 23/02/24(金) 209 TCA filter support 294 22/02/01 (火) 22/08/09 (火) 295 9 East of MSB 9 East of MSB 22/02/01 (火) 22/02/17 (木) 296 Chipping and packer setting 15日 Chipping and packer setting 297 🏢 Light Oil main pump unit 2日 22/02/18(金) 22/02/19(土) 296 Light Oil main pump unit 298 🏢 GT light oil last chance filter 2日 22/02/21 (月) 22/02/22 (火) 297 GT light oil last chance filter 22/02/23 (水) 22/02/24 (木) 298 299 | | | | GT light oil drain tank unit 2日 GT light oil drain tank unit 22/02/25(金) 22/02/26(土) 299 300 GT fuel gas flow meter 2日 GT fuel gas flow meter 301 Pipe rack from L11 to L12 (except around EB02) 22/02/12(土) 22/04/22(金) 296SS+10日 60日 Pipe rack from L11 to L12 (except around EB02) Temp hanging Main Steam Pining Temp hanging Main Steam Piping 22/04/23(土) 22/05/10(火) 302 15⊟ 301 303 Building structure for FB02 6 FI 22/03/31 (木) 22/04/06 (水) 301FS-20日 Building structure for EB02 Preassembly EB02 22/03/15(火) 22/04/07(木) 305SF 304 20日 Preassembly EB02 305 Lifting and installation EB02 2日 22/04/07(木) 22/04/08(金) 303 Lifting and installation EB02 306 Sound proof around EB02 20日 22/04/23(土) 22/05/16(月) 301 Sound proof around EB02 Pipe rack from L11 to L12 (Above EB02) 307 Pipe rack from L11 to L12 (Above EB02) 30 FI 22/05/17(火) 22/06/20(月) 306 GT enclosure ventilation fan 308 GT enclosure ventilation fan 2日 22/08/05(金) 22/08/06(土) 190 309 Oil mist separator unit 2日 22/08/08 (月) 22/08/09 (火) 308 Oil mist separator unit 310 Oily drain pit sump pump 2日 22/02/10(木) 22/02/12(土) 301SF Oily drain pit sump pump 22/02/10(木) 22/02/12(土) 301SF 311 Chemical drain pit sump pump 2日 Chemical drain pit sump pump 312 10 North of HRSG 313 10 North of HRSG 343 ⊟ 21/11/10 (水) 22/12/14 (水) 314 KURE pipe rack (North on HRSG) 40日 21/11/10(水) 21/12/25(土) 31FS+2日 KURE pipe rack (North on HRSG) Chipping and packer setting 315 Chipping and packer setting 15日 21/11/16(火) 21/12/02(木) 21/12/03 (金) 21/12/04 (土) 315 316 Lower Fuel gas heater 2日 Lower Fuel gas heater 3.Considered the affection of KURE's schedule belows: 1. The key date is subjected in the KOM held on 30th-Sep. i) Because of delaying the side casing, installation Inlet duct is postponed.

ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule

TAIHEI DENGYO KAISHA.LTD.

2. The east area on the MSB is assumed to be handovered before B-Feb-2022 according to the above key date changed.

20th-Oct-2021

Construction Schedule of Unit-12 Rev.5a タスク名 開始日 終了日 先行タスク 2023年 第2四半期 2021年 第2四半期 2021年 第3四半期 2021年 第4四半期 2022年 第1四半期 2022年 第2四半期 2022年 第3四半期 2022年 第4四半期 2023年 第1四半期
 第2四半期
 2021年 第3四半期
 2021年 第4四十級

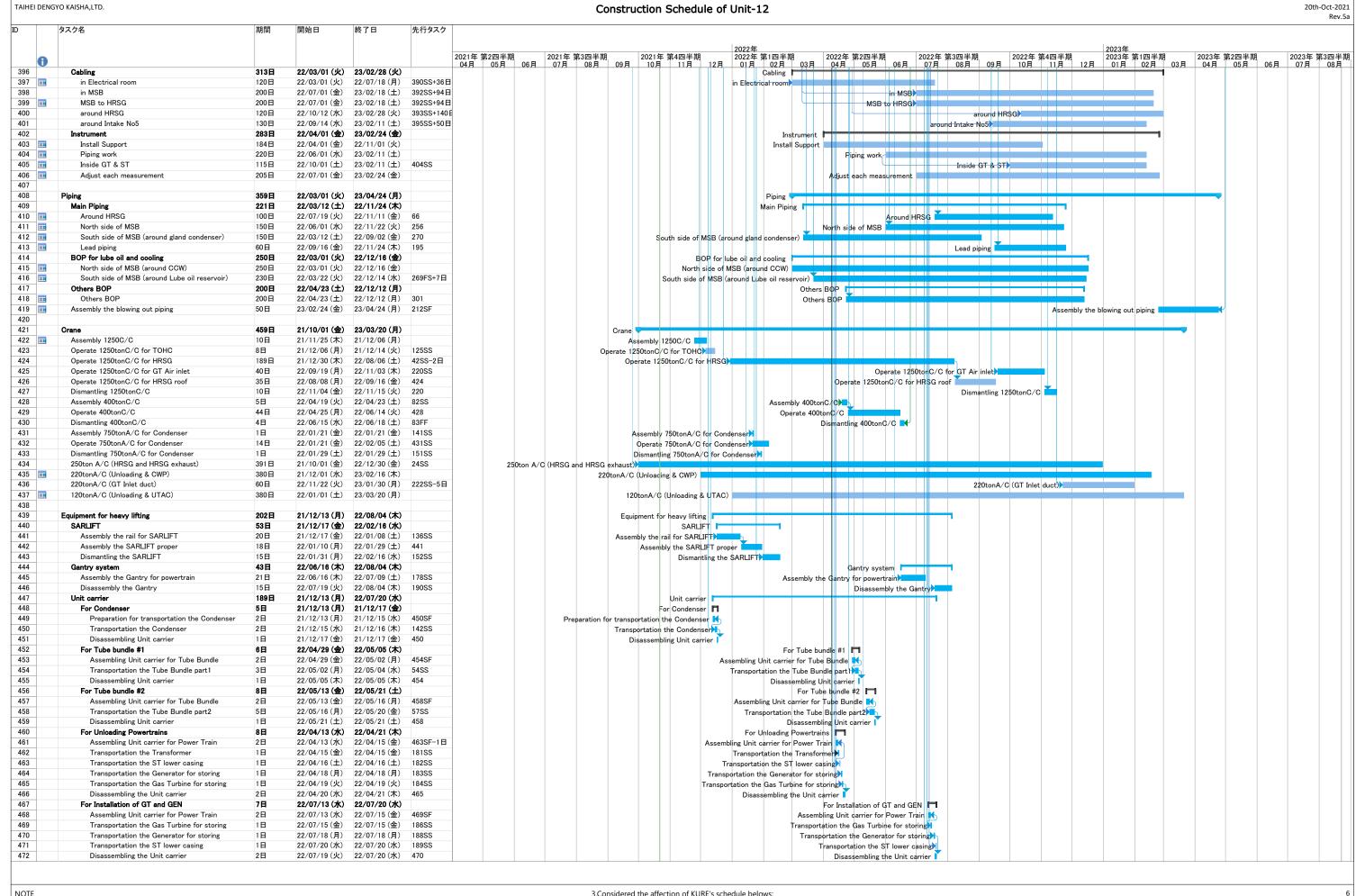
 05月
 06月
 07月
 08月
 09月
 10月
 11月

 Support structure for FGH
 | 2022年 第1四十巻| | 2023年 第2四半期 | 2023年 第3四半期 | 2023年 第3四半期 | 2023年 第3四半期 | 12月 | 01月 | 02月 | 03月 | 04月 | 05月 | 06月 | 07月 | 08月 | 09月 | 10月 | 11月 | 12月 | 01月 | 02月 | 03月 | 04月 | 05月 | 06月 | 07月 | 08月 317 5 FI 21/12/06(日) 21/12/10(金) 316 Support structure for FGH 318 Upper Fuel gas Heater 2日 21/12/11(土) 21/12/13(月) 317 Upper Fuel gas Heater 319 GT water injection system 2日 21/12/14(火) 21/12/15(水) 318 GT water injection system 320 === Feed water pump 2日 21/12/16(木) 21/12/17(金) 319 Feed water pump 321 Chemical dosing system 2日 21/12/18(土) 21/12/20(月) 320 Chemical dosing system 322 50日 21/12/27(月) 22/02/22(火) 321FS+5日 FWP sun shade FWP sun shade 22/01/31(月) 22/02/16(水) 322SS+30日 FGH Maintenance platform 323 FGH Maintenance platform 15日 324 Reserved feed water tank 2日 22/01/31(月) 22/02/01(火) 322SS+30日 Reserved feed water tank 325 HRSG Topping up pump 1日 22/02/02 (7k) 22/02/02 (7k) 324 HRSG Topping up pump 326 LP-ECO Recirculation pump 2日 22/07/07(木) 22/07/08(金) -ECO Recirculation pump 327 Dry air system for HRSG 2日 22/07/07(木) 22/07/08(金) 326SS Dry air system for HRSG 22/01/15(土) 22/01/17(月) 328 2日 HRSG blowdown pit sump pump HRSG blowdown pit sump pump 329 HRSG Washing water sump pump 2日 22/12/13(火) 22/12/14(水) 75FS+10日 HRSG Washing water sump 330 12 CCW cooler area 59 FI 22/02/26(十) 22/05/05(木) 331 12 CCW cooler area 332 Chipping and packer setting 10日 22/02/26 (±) 22/03/09 (7k) 252 Chipping and packer setting Sea water booster pump 333 4 FI 22/03/10(木) 22/03/14(月) 332 Sea water booster pump 334 CW vent pump and seal water booster 4 FI 22/03/10(木) 22/03/14(月) 332 CW vent pump and seal water booster 335 CCW cooler 4 FI 22/03/10(木) 22/03/14(月) 332 CCW cooler 336 🏢 CCW cooler sun shade 25日 22/04/07(木) 22/05/05(木) 335FS+20日 CCW cooler sun shade 337 Sea water sump pump 4日 22/03/16 (水) 22/03/19 (土) 332FS+5日 Sea water sump pump 338 339 | | | | 2日 22/11/04(金) 22/11/05(土) 220 TCA cooler 340 Dismantle the temporary slope at south side of HRSG 22/10/27(木) 22/12/01(木) 342SF 30日 Dismantle the temporary slope at south CO2 Fire fighting 23/01/17(火) 23/03/15(水) 342SS+40日 CO2 Fire fighting 342 | | | | UTAC system 90日 22/12/01(木) 23/03/15(水) UTAC system 343 Silencer at MSB roof 3日 22/12/19(月) 22/12/21(水) 222SS+18日 Silencer at MSB roof 344 🏢 LPS to LMX LO transfer pump for U-12 (if necessary) 2日 22/10/01(土) 22/10/03(月) LPS to LMX LO transfer pump for U-12 (if necessary) 345 163日? 22/10/01(土) 23/04/08(土) 346 Intake No5 area Intake No5 area 347 Marking center line 10日 22/10/01(土) 22/10/13(木) 348SF Marking center line 348 Chipping and packer setting 20 日 22/10/13(木) 22/11/05(土) 349SF ipping and packer setting 349 10 FI 350SF Setting the baseplate 22/11/05(十) 22/11/17(木) Setting the baseplate 350 Grouting 20日 22/11/17(木) 22/12/10(土) 351SF Grouting 351 Circulating water pump 20日 22/12/10(土) 23/01/02(月) 15FS+60日 Circulating water pump 352 Circulating water pump outlet piping 25日 23/01/03(火) 23/01/31(火) 351 Circulating water pump outlet piping 353 Auxiliary circulation water pump 5日 22/12/12(月) 22/12/16(金) 351SS+1日 Auxiliary circulation water pump 354 Electro chlorination plant 60 ⊟ 22/11/05(土) 23/01/13(金) 348 Electro chlorination plant 355 23/01/14(土) 23/01/25(水) 354 Cathodic protection 10日 Cathodic protection 356 22/11/05(土) 22/11/22(火) 348 Screen system 15日 Screen system 357 22/12/17(土) 22/12/19(月) 353 Screen wash water pump 2日 Screen wash water pump 358 50日 23/02/10(金) 23/04/08(土) CW system commissioning (Target) CW system commissioning (Target) 359 360 New Gantry crane for CW pump 85日 23/04/10(月) 23/07/17(月) New Gantry crane for CW pump 361 Assembling New gantry crane 45日 23/04/10(月) 23/05/31(水) 346 Assembling New gantry crane 362 23/06/01(木) 23/07/17(月) 361 40日 Test operate for New gantry crane Test operate for New gantry crane 363 317 FI 364 11 Tranceformer area 22/03/11 (金) 23/03/15 (水) Preparation work in the area 365 Preparation work in the area 5⊟ 22/03/11(金) 22/03/16(水) 366 Setting the channel base for Station 25 FI 22/03/11(金) 22/04/08(金) 36555 Setting the channel base for Station 367 Setting the channel base for Unit TX and others Txs 25 ⊟ 22/04/04(月) 22/05/02(月) 365SS+20 F Setting the channel base for Unit TX and others Txs 368 Station transforme 2 FI 22/04/09(土) 22/04/11(月) 366 Station transformer 369 Assembly Station Tx 50日 22/04/12(火) 22/06/08(水) 368 Assembly Station 370 Unit transformer 2日 22/05/03 (火) 22/05/04 (水) 367 Unit transfor 371 Assembly Unit Tx 50日 22/05/23(月) 22/07/19(火) 369SS+35E Assembly Unit Tx 372 22/05/03(火) 22/05/04(水) SFC transformer SFC transfor 373 2日 22/05/03 (火) 22/05/04 (水) Excitation transfor 374 Assembly the accessories for small TXs 22/07/02(土) 22/07/09(土) 371SS+35日 Assembly the accessories for 375 Preparation for Generator transformer 30日 22/03/11(金) 22/04/15(金) 376SF Preparation for Generator transformer 376 5日 22/04/15(金) 22/04/20(水) 181SS Generator transformer O/B Generator transformer O/B 377 Assembly the accessories for GEN TXs 22/04/21(木) 22/07/11(月) 376 70日 Assembly the accessories for GEN TXs 378 Assembly the support for Bus duct(Gen. Unit) 20日 22/07/11(月) 22/08/02(火) 374 Assembly the support for Bus duct (Gen Unit) 379 Lifting Bus duct for Tx (Gen. Unit) 22/07/14(木) 22/09/21(水) 371SS+45日 60日 Lifting Bus duct for Tx (Gen, Unit) 380 Filling 275kV cable box with oil (St Tx & GEN Tx) 22/07/18(月) 22/09/13(火) 376SS+80日 50日 Filling 275kV cable box with oil (St Tx & GFN Tx) 381 Power receiving 18 22/11/15(火) 22/11/15(火) 14SS 382 22/12/01(木) 23/03/15(水) Building Sun Shade by civil 90 FI Building Sun Shade by civil 383 384 Electric & Instrument 349日 22/01/18(火) 23/02/28(火) 385 Panels 180日 22/02/01(火) 22/08/29(月) Panels 386 Carry in panels to the electrical room 103日 22/02/01(火) 22/05/31(火) Carry in panels to the electrical room 387 Carry in panels to the HRSG electrical room 22/05/02(月) 22/05/30(月) 25日 Carry in panels to the HRSG electrical room 388 Carry in panels to the CWP electrical room 25日 22/08/01 (月) 22/08/29 (月) Carry in panels to the CWP electrical room 389 Cable tray 313日 22/01/18 (火) 23/01/17 (火) Cable tray 390 🏢 in Electrical room 80日 22/01/18(火) 22/04/20 (7k) n Electrical room 391 on L11 rink bridge 26 ⊟ 22/04/01(金) 22/04/30(土) on L11 rink bridge 392 in MSB 22/03/14(月) 22/08/11 (木) in MSB 393 around HRSG 180日 22/05/02(月) 22/11/26(土) around HRSG 394 | under exhaust duct and in stack 80日 22/10/17(月) 23/01/17(火) under exhaust duct and in stack 22/07/18(月) 22/12/15(木) 395 around Intake No5 130日 3. Considered the affection of KURE's schedule belows: 1. The key date is subjected in the KOM held on 30th-Sep. i) Because of delaying the side casing, installation Inlet duct is postponed.

ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule.

TAIHEI DENGYO KAISHA.LTD.

2. The east area on the MSB is assumed to be handovered before B-Feb-2022 according to the above key date changed.



Monthly Waste Flow Table for February 2023
Project: Lamma Power Station Extension Civil and Building Works for Unit L12

Paul Y. Construction Company, Limited Contractor:

Record by:

Year of Record: 2020, 2021, 2022 & 2023

MM.YYYY		Act	ual Quanti	ties of Inert (C&D Materia	ls Generated	Actual Quantities of Non-inert C&D Materials Generated Monthly									
	Exca	avated Mate	rials		Non-	excavated Ma	aterials									
	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)	
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	
Total	0.00	0.00	80467.07	0.00	0.00	0.00	0.00	17.79	294.94	0.00	0.25	0.00	1.00	0.70	690.98	

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				
80484.86 tonnes	295.19 tonnes	690.98 tonnes	0.70 tonnes				

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, were generated from the Project, of which 80467.07 tonnes were reused in this and other contracts, and the remaining 5.51 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
	(c	0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
	(d	Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.
lotes:		(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 February 2023

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

Contractor: Paul Y. Construction Company, Limited

Ben Lam Record by:

Year of Record: 2020, 2021, 2022 & 2023

MM.YYYY		Act	ual Quanti	ties of Inert (C&D Materia	ls Generated	Monthly		Acti	ual Quantitie	s of Non-ine	ert C&D Mat	erials Gene	erated Mon	thly
	Exc	avated Mate	erials		Non-	excavated Ma	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	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
Total	0.00	0.00	44228.78	0.00	0.00	0.00	0.00	34.31	20.17	0.00	0.00	0.00	0.60	0.42	566.63

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	20.17 tonnes	566.63 tonnes	0.42 tonnes				

44263.09 tonnes of inert C&D material Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, were generated from the Project, of which 44228.78 tonnes were reused in this and other contracts, and the remaining 10.27 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)	8670	kg of metals,	0	kg of papers/ cardboard packing and	 0	kg of plastics were sent to recyclers
	for recyclin	a during the repor	rtina per	ind.		

(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.

Appendix K

Monthly Waste Flow Table for February 2023
Project: LAMMA POWER STATION EXTENSION – Unit 12 Complete Erection, Inspection, Testing & Commissioning of Power Block Facilities

Contractor: Taihei Dengyo Kaisha, Ltd.

Stephen Sin Record by:

Year of Record: 2021, 2022, 2023

MM,YYYY		Actual	Quantities	of Inert C&D	Materials C	Generated N	Monthly		Actual Q	uantities of	Non-inert Ca	&D Material	s Generated	Monthly
	Exc	avated Mate		or more out		cavated Ma	, ,		,					
	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)	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 L)	(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
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	0.00	221.03

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				
0.00 tonnes	0.00 tonnes	221.03 tonnes	0 Liters				

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil.								
		were generated from the Project, of which 0 tonnes were reused in this and other contracts, and the remaining								
		0.00 tonnes were disposed in Public Fill and Sorting Facilities.								
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse.								
		Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.								
	(c)	0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers								
		for recycling during the reporting period.								
	(d)	Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.								
otes:		(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.									

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

(5) Broken concrete for recycling into aggregates.