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



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

November 2021



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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 L11 & L12 Monthly EM&A Report (November 2021)
Date	14 December 2021
Certified by	Sler
Verified by	(Mr. CHAN Hon Yeung, Environmental Team Leader) Mr. Y T Tang (AECOM Asia Company Limited, Independent Environmental Checker)

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EXECUTIVE SUMMARY

This is the 139th 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 November 2021.

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. The operational EM&A work for L9 and L10 is recorded in the separate monthly EM&A report for the Project "Operation of Lamma Power Station Extension".

In September 2016, the Government approved HK Electric to construct the third combined cycle gasfired generating unit (L11) to implement the 2020 Fuel Mix Target. L11 is planned for commercial operation in 2022 and the associated construction work commenced in November 2016. The Gas-in and Synchronization for L11 were carried out in mid-October and mid-November 2021 respectively to facilitate commissioning activities.

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 L11 Civil and Building Works	Main Station Building external works and pipe jacking
Unit L11 Mechanical Erection	Testing and commissioning
Unit L11 Electrical, Instrumentation & Control Erection	Testing and commissioning
Unit L12 Civil and Building Works	Installation of columns and beam for Main Station Building, construction of No. 5 Chimney, construction of superstructure for ACB, installation of pipe and backfilling works for No. 5 C.W. Culvert, installation of precast beam for Cable Bridge (North & South), construction of pile cap for shunt reactor compound extension and soil nailing 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	То		Issuance
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
Construction Noise Permit	GW-RS0436-21	01/07/21	31/12/21	Contractor	15/06/21
Construction Noise Permit	GW-RS0600-21	08/08/21	07/02/22	Contractor	06/08/21
Construction Noise Permit	GW-RS0790-21	23/10/21	21/04/22	Contractor	21/10/21
WPCO Discharge Licence	WT00034006-2019	08/08/19	31/08/24	Contractor	22/08/19
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.: 7031135	21/06/18	-	Contractor	21/06/18
Waste Disposal Billing Account	Account No.: 7027672	24/04/17	-	Contractor	24/04/17
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

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 against 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 L11 Civil and Building Works

- 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;
- to treat wastewater in sedimentation pit and tanks before discharge and to ensure compliance with the WPCO discharge licence already obtained.

Unit L11 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 L11 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.

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 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 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 November 2021.

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 L11 civil and building works were, Main Station Building external works and pipe jacking. Construction activities for Unit L11 mechanical erection were testing and commissioning. Construction activity for Unit L11 electrical, instrumentation & control erection was testing and commissioning. Construction activities for Unit L12 civil and building works were, installation of columns and beam for Main Station Building, construction of No.5 Chimney, construction of superstructure for ACB, installation of pipe and backfilling

works for No. 5 C.W. Culvert, and installation of precast beam for Cable Bridge (North & South), construction of pile cap for shunt reactor compound extension and soil nailing 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 L11	l Civil and Building	Works
1.	Main Station Building external works and pipe jacking	Air - All regulated machine attached with valid exception/approval NRMM labels. - Water truck and water sprinkler system was used. - Excavated slope and soil stock covered with cement or tarpaulin. - Backfilled surface was compacted. - Wheel washing facility was provided. 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 from every other day to 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. Scrape metal would be recycled. Timber would be reused as much as possible.
Unit L11	Mechanical Erection	on
2.	Testing and commissioning	Air - Dust suppression measures implemented according to the EMP.

Item	Construction Activities	Environmental Mitigation Measures
Unit L1	1 Electrical, Instrume	Noise - General noise mitigation measures employed at all work sites throughout the construction phase. Waste Management - Waste Management Plan submitted and implemented entation & Control Erection
3.	Testing and commissioning	Air - Dust suppression measures implemented according to the EMP. Noise - General noise mitigation measures employed at all work sites throughout the construction phase. Waste Management - Waste Management Plan submitted and implemented.
4.	Unit L12 Main Station Building Installation of Columns and beam Construction of No.5 Chimney ACB Construction of superstructure No.5 C.W. Culvert installation of pipe and backfilling works	Air - All regulated machine attached with valid exception/approval NRMM labels. - Water truck, water sprinkler system and mist cannon 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
	installation of pipe and backfilling	Wastewater - Wastewater should be treated in desilting pit and ta

Item	Construction Activities	Environmental Mitigation Measures
		 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.
5.	Cable Bridge (North & South): Installation of precast beam Shunt Reactor Compound Extension Construction of pile cap No. 5 C.W. Intake Soil nailing	Air - All regulated machine attached with valid exception/approval NRMM labels. - Noise emission level was provided for air compressor. - Using canvas to cover 3 sides and top of the grouting station. - 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. Waste Management - Excavated soil would be stored for backfilling. Wastewater - Wastewater would be treated in desilting tanks before discharge.
Unit L12	2 Mechanical Erection	on
6	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
7	Cable installation	Air

Item	Construction Activities	Environmental Mitigation Measures	
		 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.	

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.

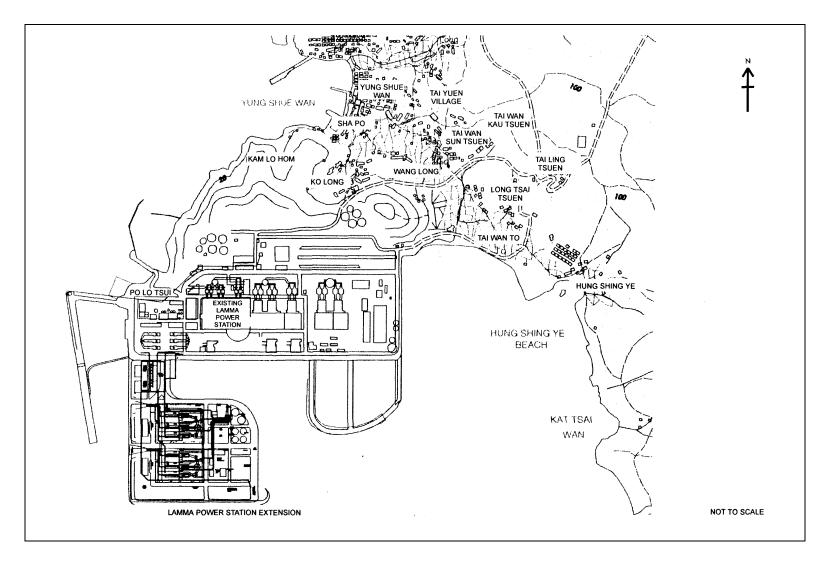


Figure 1.1 Layout of Work Site

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
AIVIZ	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:
 - 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.

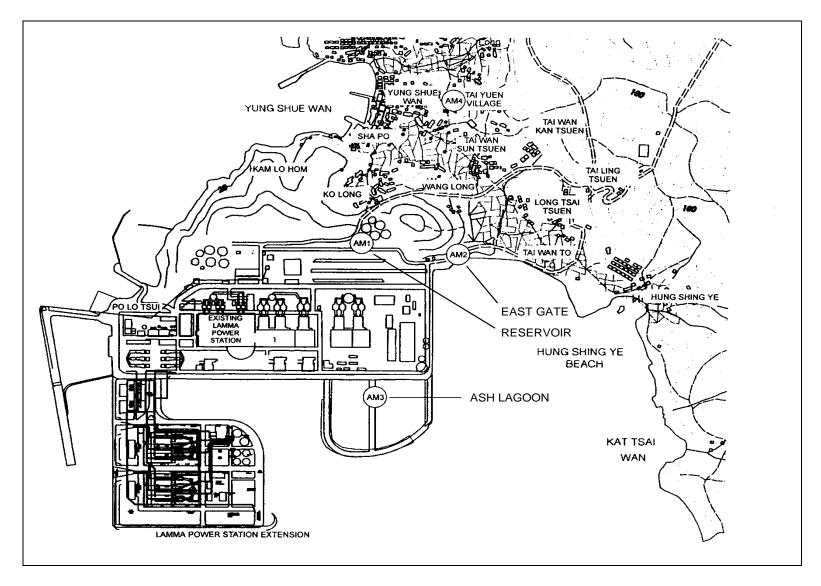


Figure 2.1 Location of Air Quality Monitoring Stations

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

Lo	cation	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 Ash Lagoon and Ching Lam noise monitoring stations were carried out in September 2021. The next calibrations for the two noise monitoring stations were scheduled in March 2022.

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.

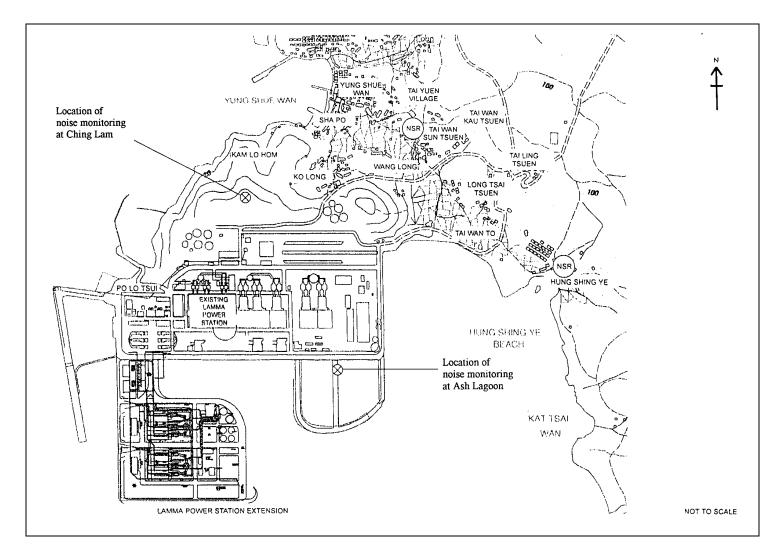


Figure 3.1 Location of Noise Monitoring Stations

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)	01/11/2021- 30/11/2021	0	0	
2	Ambient TSP (1-hour)	01/11/2021- 30/11/2021	0	0	
Noise					
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/11/2021- 30/11/2021	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 November 2021 are shown in Table 4.2.

Table 4.2 Estimated Amounts of Waste in November 2021

	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 8.0	08 Tonnes 50.71 Tonnes	0 Litres
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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-RS0436-21	01/07/21	31/12/21	Power Block Facilities works for Unit L11. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0600-21	08/08/21	07/02/22	Civil and Building Works for Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0790-21	23/10/21	21/04/22	Construction site of Unit L12. Operation of PME during restricted hours	Valid
WPCO Discharge Licence#	WT00034006- 2019	08/08/19	31/08/24	Civil and Building Works for Unit L11	Valid
WPCO Discharge Licence##	WT00037613- 2021	15/04/21	30/04/26	Civil and Building Works for No.5 C.W. Intake and Cable Bridge	Valid
WPCO Discharge Licence###	WT00037665- 2021	06/05/21	31/05/26	Civil and Building Works for Unit L12	Valid
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Civil and Building Works	Valid

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Description	Permit No.	Valid Period		Highlights	Status
		From	To		
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	E&M Equipment Installation and Maintenance	Valid
Waste Disposal Billing Account	Account No.: 7031135	21/06/18	-	Civil and Building Works for Unit L11	Valid
Waste Disposal Billing Account	Account No.: 7027672	24/04/17	-	E&M Erection of Power Block Facilities – L11	Valid
Waste Disposal Billing Account	Account No.: 7038672	27/10/20	-	Civil works for Unit L12 No.5 C.W. intake and cable bridge	Valid
Waste Disposal Billing Account	Account No.: 7039272	08/01/21	-	Civil and building works for Unit L12	Valid

Notes: #, ## and ### - Water quality monitoring was carried out in November 2021 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 November 2021, no complaint against the construction activities was received.

Table 4.4 Environmental Complaints Received in November 2021

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 /	Descriptions /	Conclusion /
Date, Time Received /	Actions Taken	Status
Date, Time Concerned		

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Nil	N/A	N/A

5. FUTURE KEY ISSUES

5.1 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

<u>Unit L11 Civil and Building Works</u>

Noise Impact

• 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.

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 L11 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 L11 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.

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 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 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 against 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.

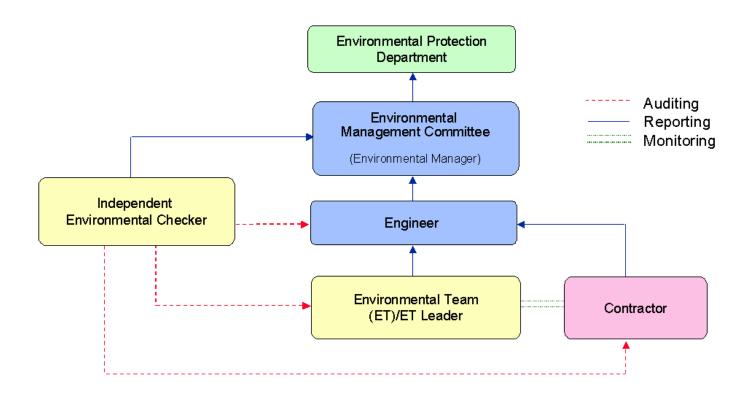


Figure A.1 Organisation of EM&A Programme at Construction Phase

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 (November 2021 to February 2022)

24hr TSP Monitoring	1hr TSP Monitoring
2/November/2021	2/November/2021 1500hr to 1800hr
8/November/2021	8/November/2021 1500hr to 1800hr
14/November/2021	14/November/2021 1500hr to 1800hr
20/November/2021	20/November/2021 1500hr to 1800hr
26/November/2021	26/November/2021 1500hr to 1800hr
2/December/2021	2/December/2021 1500hr to 1800hr
8/December/2021	8/December/2021 1500hr to 1800hr
14/December/2021	14/December/2021 1500hr to 1800hr
20/December/2021	20/December/2021 1500hr to 1800hr
26/December/2021	26/December/2021 1500hr to 1800hr
1/January/2022	1/January/2022 1500hr to 1800hr
7/January/2022	7/January/2022 1500hr to 1800hr
13/January/2022	13/January/2022 1500hr to 1800hr
19/January/2022	19/January/2022 1500hr to 1800hr
25/January/2022	25/January/2022 1500hr to 1800hr
31/January/2022	31/January/2022 1500hr to 1800hr
6/February/2022	6/February/2022 1500hr to 1800hr
12/February/2022	12/February/2022 1500hr to 1800hr
18/February/2022	18/February/2022 1500hr to 1800hr
24/February/2022	24/February/2022 1500hr to 1800hr

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: November 2021

24 hour TSP Measurement:-

	TSP concentration (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.
2/11/2021	39	38	30	36	37.1	80	76
8/11/2021	29	71	38	33	45.3	360	61
14/11/2021	40	39	34	33	24.1	80	59
20/11/2021	32	36	27	15	33.0	80	77
26/11/2021	58	58	47	42	25.3	80	64

1 hour TSP Measurement:-

		TSP concentration (μg/m³)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
	15:00 - 15:59	37	37	30		
2/11/2021	16:00 - 16:59	39	41	35		
	17:00 - 17:59	44	44	36		
0/11/2021	15:00 - 15:59	31	84	51		
8/11/2021	16:00 - 16:59	39	85	54		
	17:00 - 17:59	36	68	53		
1.4/1.1/2021	15:00 - 15:59	37	44	34		
14/11/2021	16:00 - 16:59	43	52	34		
	17:00 - 17:59	45	63	34		
	15:00 - 15:59	35	39	29		
20/11/2021	16:00 - 16:59	38	42	31		
	17:00 - 17:59	33	52	30		
	15:00 - 15:59	60	66	54		
26/11/2021	16:00 - 16:59	82	65	53		
	17:00 - 17:59	60	54	48		

 $\begin{array}{ccc} \text{1-hr TSP} & \text{24-hr TSP} \\ (\mu g/m^3) & (\mu g/m^3) \\ 340 & 190 \\ 500 & 260 \end{array}$

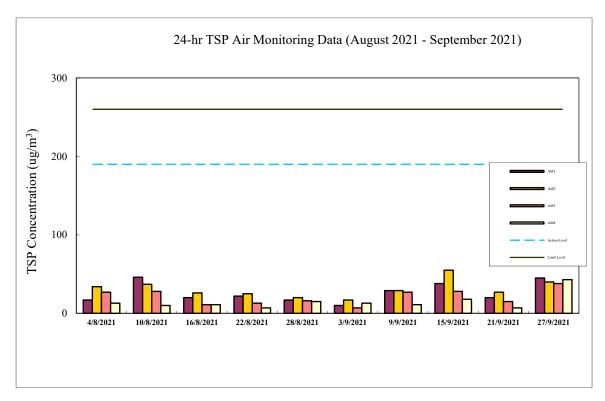
Limit Level 500 2 Calibration: Calibration details are shown in appendix F.

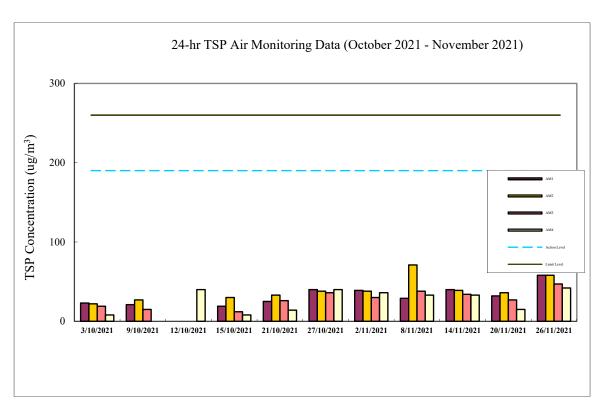
Equipment used:

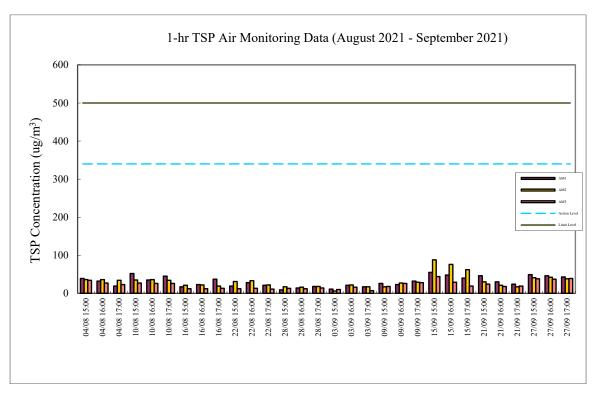
Action Level

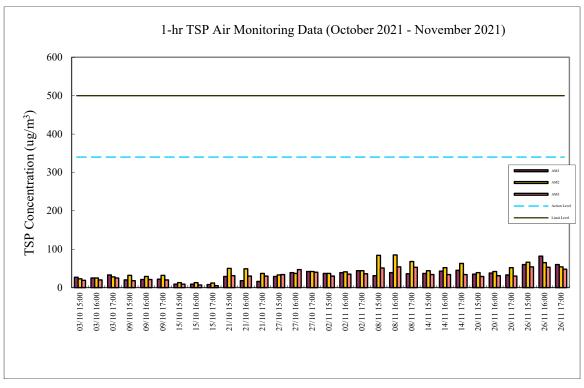
Location	1-hr TSP	24-hr TSP

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









Appendix E Continuous Noise Monitoring Results for November 2021

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 - 28/06/2020 (Ash Lagoon)

03/09/2021 (Ching Lam)

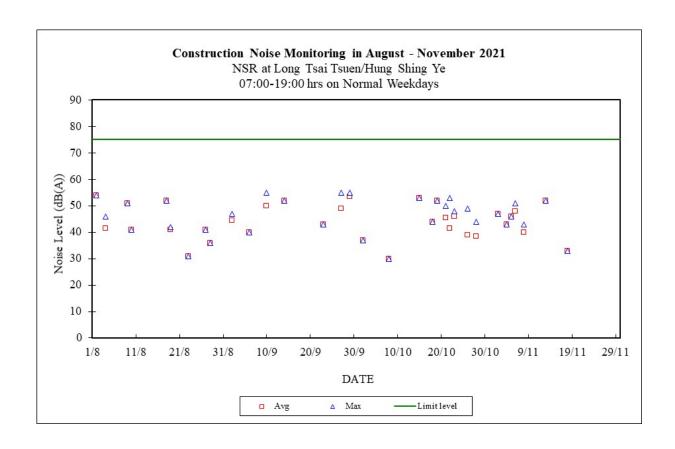
B&K 4231 calibrator (21/10/2021)

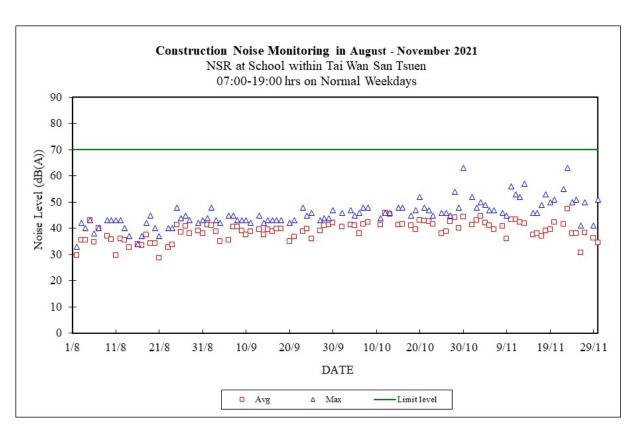
		Calcula			Calcula	ated	
		Noise	aceu		Noise		
		Level a	a t		Level a		
		NSR at		Limit	NSR at	the	Limit
Date	Time	Tsai	20119	Noise	school		Noise
Date	111110	Tsuen/H	Huna	Level	within		Level
		Shing N	_	(dB(A))	Wan Sar	1	(dB(A))
		(dB(A)			Tsuen		
				1	(dB(A))		_
01 /11 /0001	07.00 10.00	Max	Avg	85	Max	Avg	T.0
01/11/2021	07:00-19:00			75	52	41	70
01/11/2021	19:00-23:00			60	48	40	60
01/11/2021	23:00-07:00	37	33	45	44	39	45
02/11/2021	07:00-19:00	47	47	75	48	43	70
02/11/2021	19:00-23:00	31	31	60	46	41	60
02/11/2021	23:00-07:00	40	37	45	44	41	45
03/11/2021	07:00-19:00			75	50	45	70
03/11/2021	19:00-23:00			60	48	37	60
03/11/2021	23:00-07:00	41	39	45	44	41	45
04/11/2021	07:00-19:00	43	43	75	49	42	70
04/11/2021	19:00-23:00			60	44	40	60
04/11/2021	23:00-07:00	43	39	45	44	40	45
05/11/2021	07:00-19:00	46	46	75	47	41	70
05/11/2021	19:00-23:00			60	42	34	60
05/11/2021	23:00-07:00	43	42	45	43	37	45
06/11/2021	07:00-19:00	51	48	75	47	40	70
06/11/2021	19:00-23:00	29	29	60	51	39	60
06/11/2021	23:00-07:00	45	39	45	43	39	45
07/11/2021	07:00-23:00	56	52	60	49	39	60
07/11/2021	23:00-07:00	44	41	45	45	36	45
08/11/2021	07:00-19:00	43	40	75	46	41	70
08/11/2021	19:00-23:00	38	32	60	41	36	60
08/11/2021	23:00-07:00	44	39	45	42	36	45
09/11/2021	07:00-19:00			75	45	36	70
09/11/2021	19:00-23:00			60	42	39	60
09/11/2021	23:00-07:00	44	39	45	44	39	45
10/11/2021	07:00-19:00			75	56	43	70
10/11/2021	19:00-23:00			60	42	39	60
10/11/2021	23:00-07:00	37	31	45	44	40	45
11/11/2021	07:00-19:00			75	53	43	70
11/11/2021	19:00-23:00			60	43	41	60
11/11/2021	23:00-07:00	41	36	45	44	40	45
12/11/2021	07:00-19:00			75	52	42	70
12/11/2021	19:00-23:00			60	44	40	60
12/11/2021	23:00-07:00	45	41	45	44	40	45
13/11/2021	07:00-19:00	52	52	75	57	42	70
10/11/4U41	01.00-13.00	24	J	13	١ , ر	74	7 U

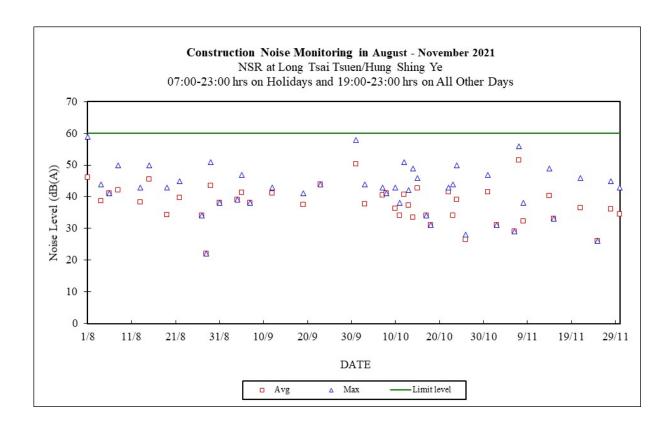
12/11/2021	10.00 00.00			C 0	Ε0	2.5	60
13/11/2021	19:00-23:00			60	50	35	60
13/11/2021	23:00-07:00	44	37	45	44	38	45
14/11/2021	07:00-23:00	49	40	60	47	39	60
14/11/2021	23:00-07:00	45	39	45	43	37	45
15/11/2021	07:00-19:00			75	46	38	70
15/11/2021	19:00-23:00	33	33	60	42	38	60
15/11/2021	23:00-07:00	43	33	45	43	36	45
16/11/2021	07:00-19:00			75	46	38	70
16/11/2021	19:00-23:00			60	43	39	60
16/11/2021	23:00-07:00	39	34	45	44	38	45
17/11/2021	07:00-19:00			75	49	37	70
17/11/2021	19:00-23:00			60	43	39	60
17/11/2021	23:00-07:00	44	39	45	44	39	45
18/11/2021	07:00-19:00	33	33	75	53	39	70
18/11/2021	19:00-23:00			60	43	40	60
18/11/2021	23:00-07:00	41	35	45	42	35	45
19/11/2021	07:00-19:00			75	50	39	70
19/11/2021	19:00-23:00			60	42	40	60
19/11/2021	23:00-07:00	44	39	45	42	38	45
20/11/2021	07:00-19:00	-		75	51	42	70
20/11/2021	19:00-23:00	1	-	60	46	38	60
20/11/2021	23:00-07:00	37	31	45	44	38	45
21/11/2021	07:00-23:00	46	36	60	47	37	60
21/11/2021	23:00-07:00	45	39	45	45	37	45
22/11/2021	07:00-19:00			75	55	42	70
22/11/2021	19:00-23:00			60	41	39	60
22/11/2021	23:00-07:00	43	40	45	41	37	45
23/11/2021	07:00-19:00			75	63	48	70
23/11/2021	19:00-23:00			60	51	39	60
23/11/2021	23:00-07:00	43	38	45	43	34	45
24/11/2021	07:00-19:00			75	50	38	70
24/11/2021	19:00-23:00			60	40	37	60
24/11/2021	23:00-07:00	44	34	45	41	34	45
25/11/2021	07:00-19:00			75	51	38	70
25/11/2021	19:00-23:00	26	26	60	42	37	60
25/11/2021	23:00-07:00	42	37	45	43	37	45
26/11/2021	07:00-19:00			75	41	31	70
26/11/2021	19:00-23:00			60	43	40	60
26/11/2021	23:00-07:00	44	40	45	42	37	45
27/11/2021	07:00-19:00			75	50	38	70
27/11/2021	19:00-23:00			60	41	36	60
27/11/2021	23:00-07:00	40	36	45	42	35	45
28/11/2021	07:00-23:00	45	36	60	48	37	60
28/11/2021	23:00-07:00	44	38	45	43	37	45
29/11/2021	07:00-19:00			75	41	36	70
29/11/2021	19:00-23:00			60	41	37	60
29/11/2021	23:00-07:00	45	40	45	44	36	45
30/11/2021	07:00-19:00			75	51	34	70
30/11/2021	19:00-23:00	43	35	60	43	37	60
30/11/2021	23:00-07:00	45	40	45	44	39	45
		_	-	_	ı	-	-

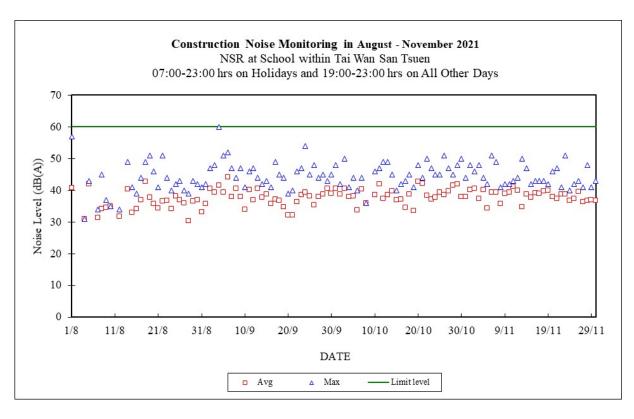
Note:

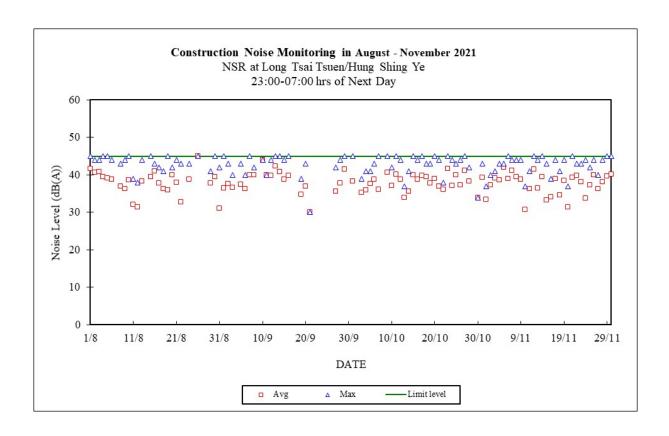
- a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.
- b. Continuous noise monitoring was also carried out at holidays & evening-time (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time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

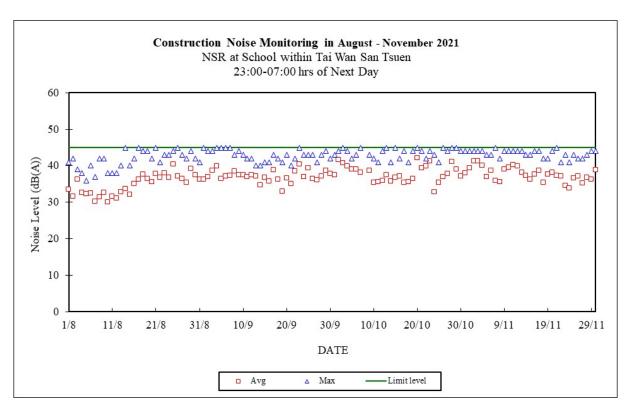












Appendix F

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: November Year: 2021

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)	
2/11/2021	269.901	4	3.01	12.30	
8/11/2021	269.441	4.	3.00	13.02	
14/11/2021	268.818	4	3.01	13.03	
20/11/2021	268.149	4	2.99	12.96	
26/11/2021	267.517	4	2.99	13.21	

East Gate (AM2)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)	
2/11/2021	250.701	4	2.90	13.70	
8/11/2021	249.864	4	3.04	13.83	
14/11/2021	248.983	4	3.03	13.80	
20/11/2021	248.334	4	2.93	13.72	
26/11/2021	251.794	4	3.00	13.74	

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)
2/11/2021	256.330	4	3.00	13.68
8/11/2021	255.961	4	3.00	13.68
14/11/2021	255.400	4	3.00	13.68
20/11/2021	256.802	4	3.00	13.68
26/11/2021	256.194	4	3.00	13.68

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

Remarks:

Prepared by: Chris Chan

Checked by: HY Chan

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

Attendance Log	Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
16/11/2021 / 14:00	WM Tam / Brain So

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR69
New filter paper no.	MR70

Type of filter: Glass-fibre

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

 Before:
 4.983

 After:
 5.033

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: WM Tam / Brain So Checked by: SM Hon

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

Date	Location:	Ash Lagoon	Location:	Ching Lam
	Calibration Results	Deviation from	Calibration Results	Deviation from
		Reference (dB)		Reference (dB)
01/11/2021	Passed	-0.10	Passed	-0.11
02/11/2021	Passed	-0.09	Passed	-0.08
03/11/2021	Passed	-0.09	Passed	-0.10
04/11/2021	Passed	-0.09	Passed	-0.09
05/11/2021	Passed	-0.08	Passed	-0.08
06/11/2021	Passed	-0.08	Passed	-0.10
07/11/2021	Passed	-0.14	Passed	-0.16
08/11/2021	Passed	-0.11	Passed	-0.13
09/11/2021	Passed	-0.11	Passed	-0.12
10/11/2021	Passed	-0.12	Passed	-0.12
11/11/2021	Passed	-0.10	Passed	-0.11
12/11/2021	Passed	-0.10	Passed	-0.11
13/11/2021	Passed	-0.12	Passed	-0.12
14/11/2021	Passed	-0.12	Passed	-0.11
15/11/2021	Passed	-0.10	Passed	-0.11
16/11/2021	Passed	-0.10	Passed	-0.09
17/11/2021	Passed	-0.11	Passed	-0.13
18/11/2021	Passed	-0.10	Passed	-0.11
19/11/2021	Passed	-0.10	Passed	-0.11
20/11/2021	Passed	-0.10	Passed	-0.10
21/11/2021	Passed	-0.13	Passed	-0.16
22/11/2021	Passed	-0.14	Passed	-0.15
23/11/2021	Passed	-0.12	Passed	-0.12
24/11/2021	Passed	-0.11	Passed	-0.12
25/11/2021	Passed	-0.11	Passed	-0.09
26/11/2021	Passed	-0.11	Passed	-0.13
27/11/2021	Passed	-0.11	Passed	-0.11
28/11/2021	Passed	-0.11	Passed	-0.11
29/11/2021	Passed	-0.11	Passed	-0.16
30/11/2021	Passed	-0.14	Passed	-0.15

Remarks:

- 1. The B&K sound level meter at the noise monitoring station has an advanced feature of internal calibration checking (viz. Charge Injection Calibration (CIC)). CIC is a B&K patented method for in situ verification of the integrity of the entire sound measurement chain (including microphone, preamplifier and cabling).
- 2. The acceptance criterion of deviation from reference is \pm 0.5 dB.

Appendix G Event/Action Plans

Table G.1 Event and Action Plans for Air Quality

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

Event	Monitoring		Action	
	ET Leader	IEC	Engineer	Contractor
consecutive	If the exceedance is found to be valid	ET / Contractor	failure in writing	avoid further exceedance
samples	and due to the construction works, verbally advise the Contractor, Engineer	Advise Engineer on the effectiveness of the proposed remedial measures	Checking monitoring data and Contractor's working methods	Submit proposals for remediactions to Engineer within 3
	and IEC, and inform the EPD of the exceedance as soon as practicable.	Verify the implementation of the	Notify Contractor	working days of notifications
	Repeat measurement to confirm finding	with ET and Contractor Ensure remedial measures properl	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 Contractor to stop the portion of work until the exceedance is abated	Engineer until the exceedance is abated
	If exceedance stops, discontinue additional monitoring			

Table G.2 Event and Action Plans for Construction Noise

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

Table G.3 Event and Action Plans for Water Quality

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

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

Appendix H Summary of Site Audit Findings

L11 Civil and Building Works						
<u>Dates of Inspection</u> : 2/11/2021, 9/11/2021, 16/11/2021, 23/11/2021 and 30/11/2021						
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.						

L11 Mechanical, Electrical, Instrumentation & Control Erection Works Dates of Inspection: 4/11/2021, 11/11/2021, 18/11/2021 and 25/11/2021. 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 Civil and Building Works

Dates of Inspection: 2/11/2021, 9/11/2021, 16/11/2021, 23/11/2021 and 30/11/2021.

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: 4/11/2021, 11/11/2021, 18/11/2021 and 25/11/2021. 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.	С
	The materials which may generate airborne dust emissions shall be wetted by water spray system.	С
	All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	С
	All conveyor transfer points shall be totally enclosed.	С
	WATER QUALITY	
B1	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging. **	N/A
В3	As a necessary operational constraint combined bulk dredging and sand filling for site formation shall not be permitted at any time. In addition, sand filling for site platform shall take place behind constructed sea walls which pierce the water surface. **	N/A
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay. **	N/A
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
В6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented: **	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	

EM&A Log Ref.	Mitigation Measures	Implementation Status		
В7	In addition to the above specific measures the following general working procedures shall be adopted. **			
	fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A		
	the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A		
	barges shall be loaded carefully to avoid splashing of material;	N/A		
	all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A		
	all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A		
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A		
	"rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A		
	the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A		
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels **			
	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.			
С3	Mitigate against night time noise from dredging equipment, with silencers or mufflers. **	N/A		
	LANDSCADE & VISUAL IMDACTS			
D1	LANDSCAPE & VISUAL IMPACTS The following mitigation measures shall be allowed for landscape and visual			
ועו	improvement:			
	Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look.	С		
	Break the mass of main buildings by varying the height/division into smaller units.	С		
	Plant trees and vegetation for screening.	С		
	Adopt colour scheme to blend the buildings into the scenery.	С		

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

EM&A Log Ref.					
G1	All percussive piling works shall be conducted on reclaimed land to avoid noise impact to marine mammals**				
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**				
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms**				
G4	Artificial Reefs of a volume not less than 400 m³ shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.**				
	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			

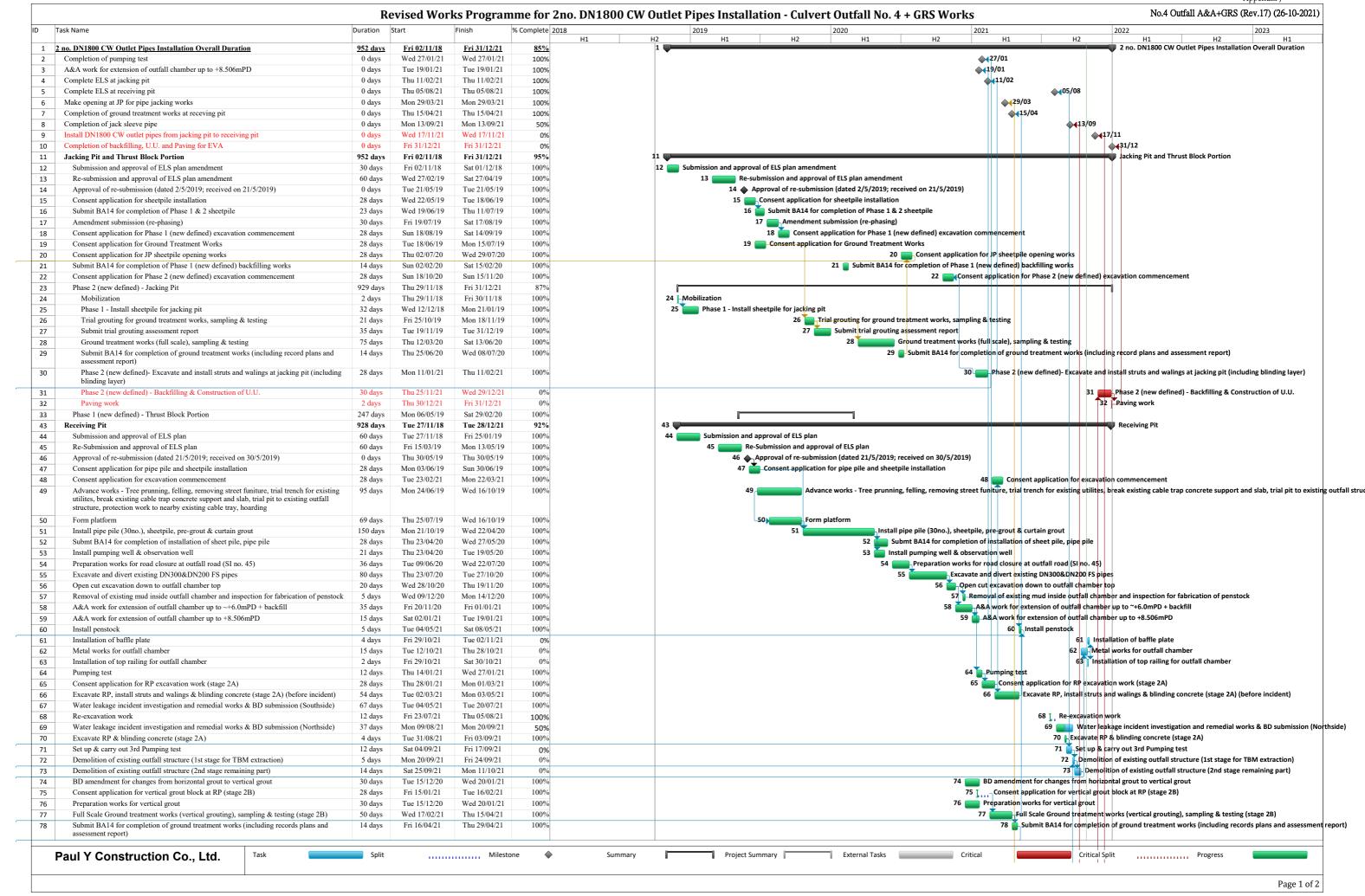
Remarks:

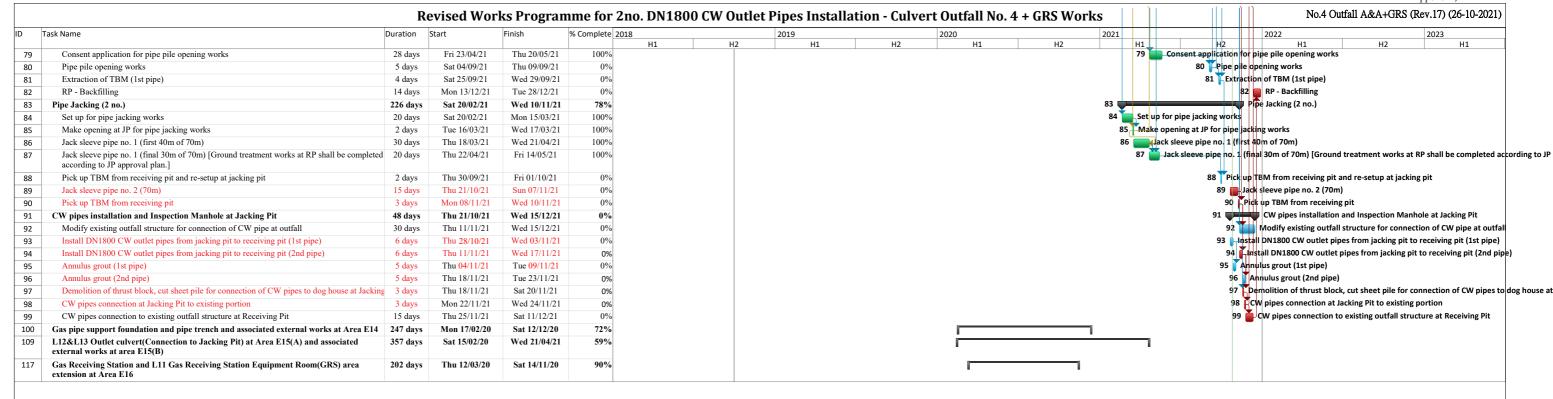
No dredging and reclamation work would be involved for L11 & L12 construction Compliance with mitigation measure
Non-compliance with mitigation measure
Not Applicable **

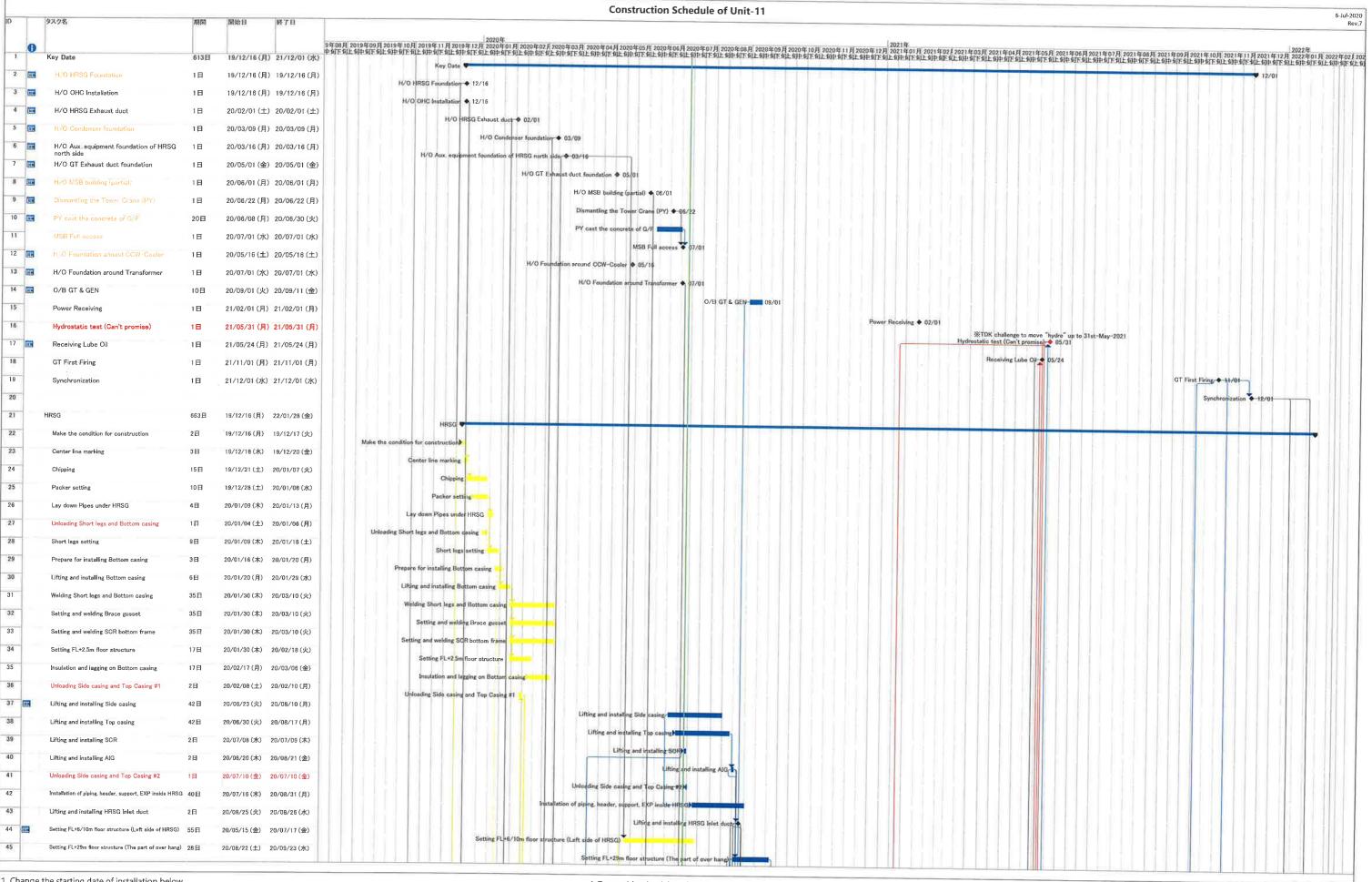
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N/A





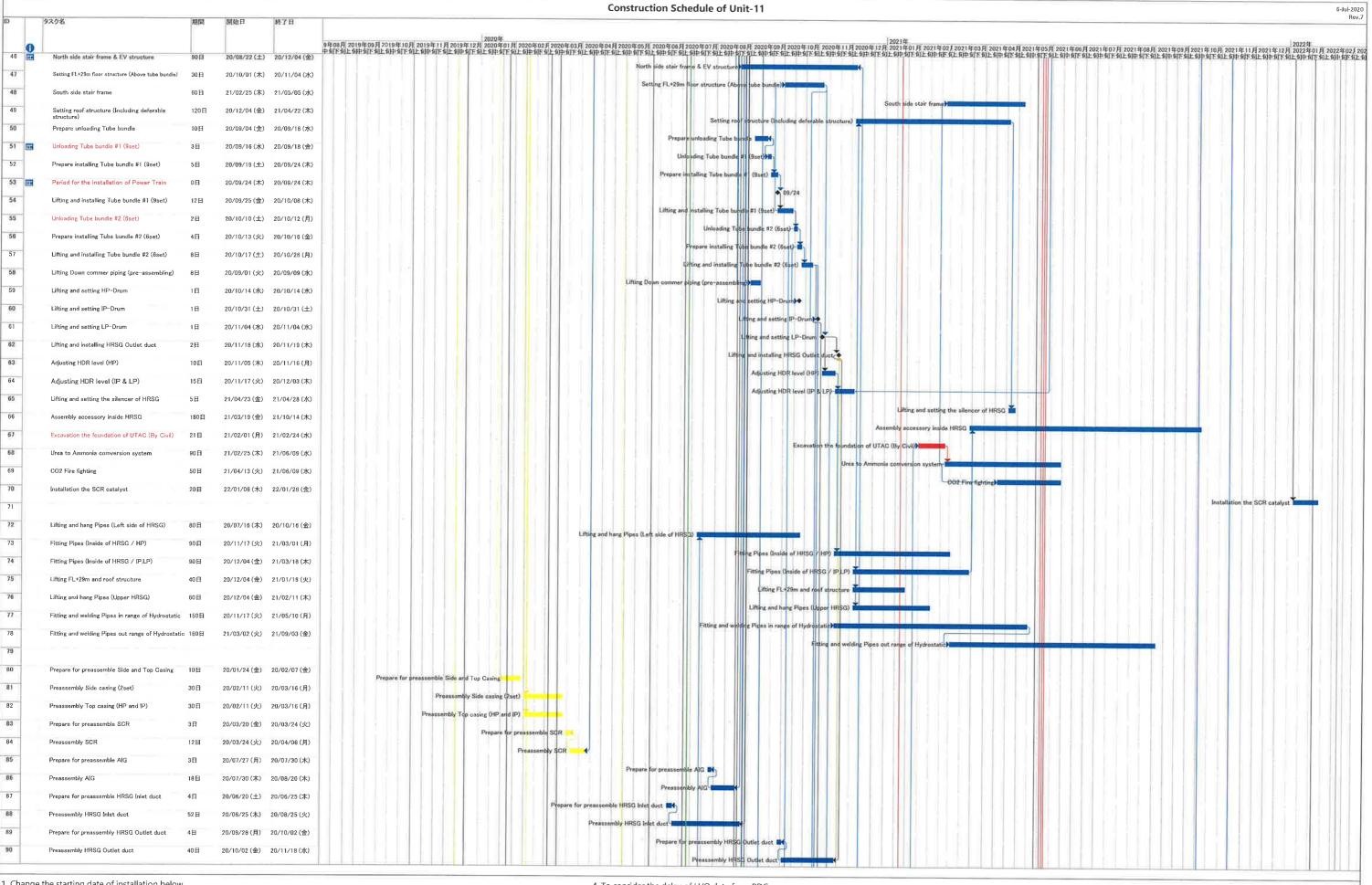


[.] Change the starting date of installation below

Installation HRSG was re-started from 23rd-Jun

Installation Exhaust duct was re-started from 15st-May

^{2,} To consider that structure of Takasago portion is delayed

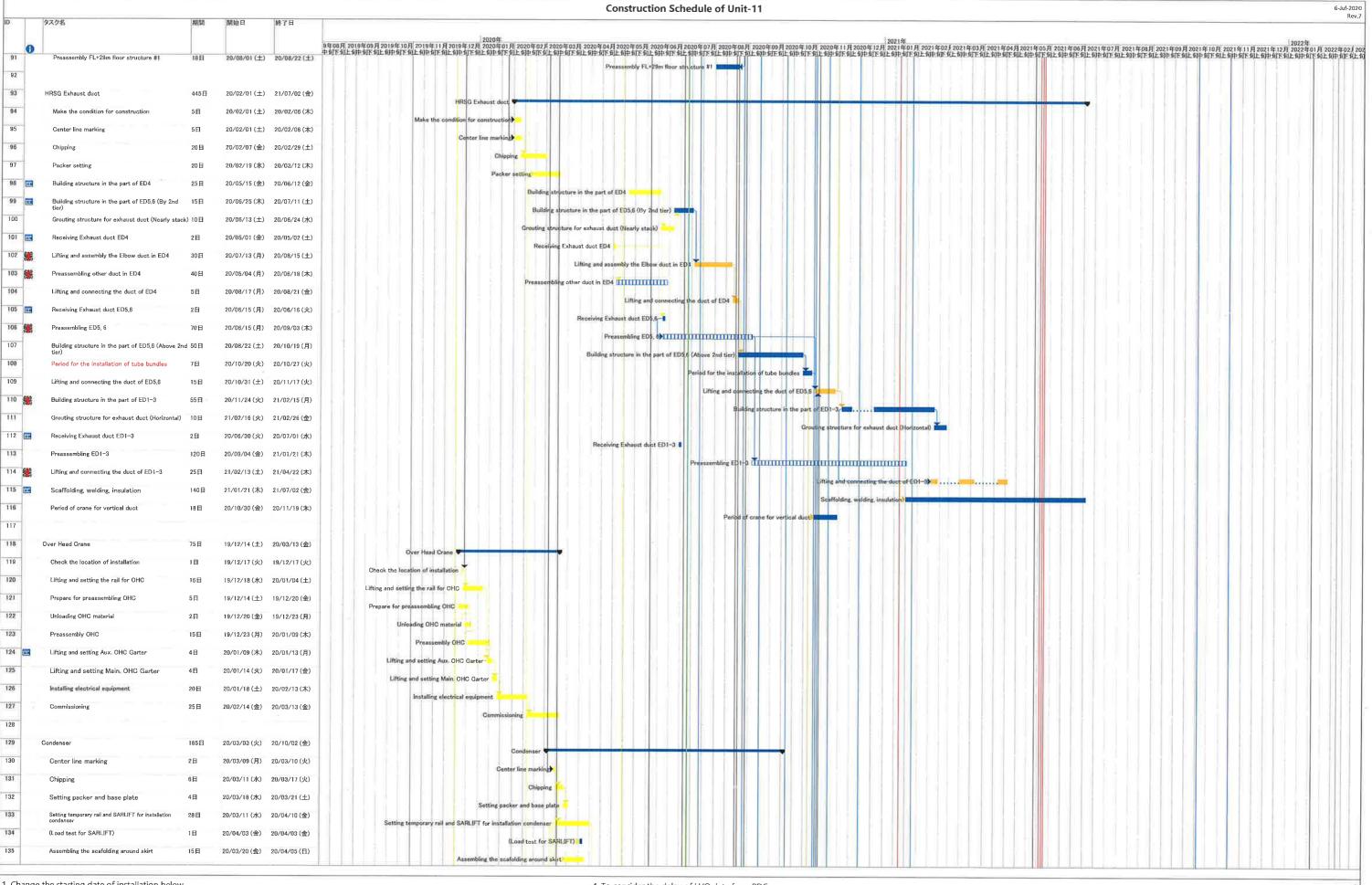


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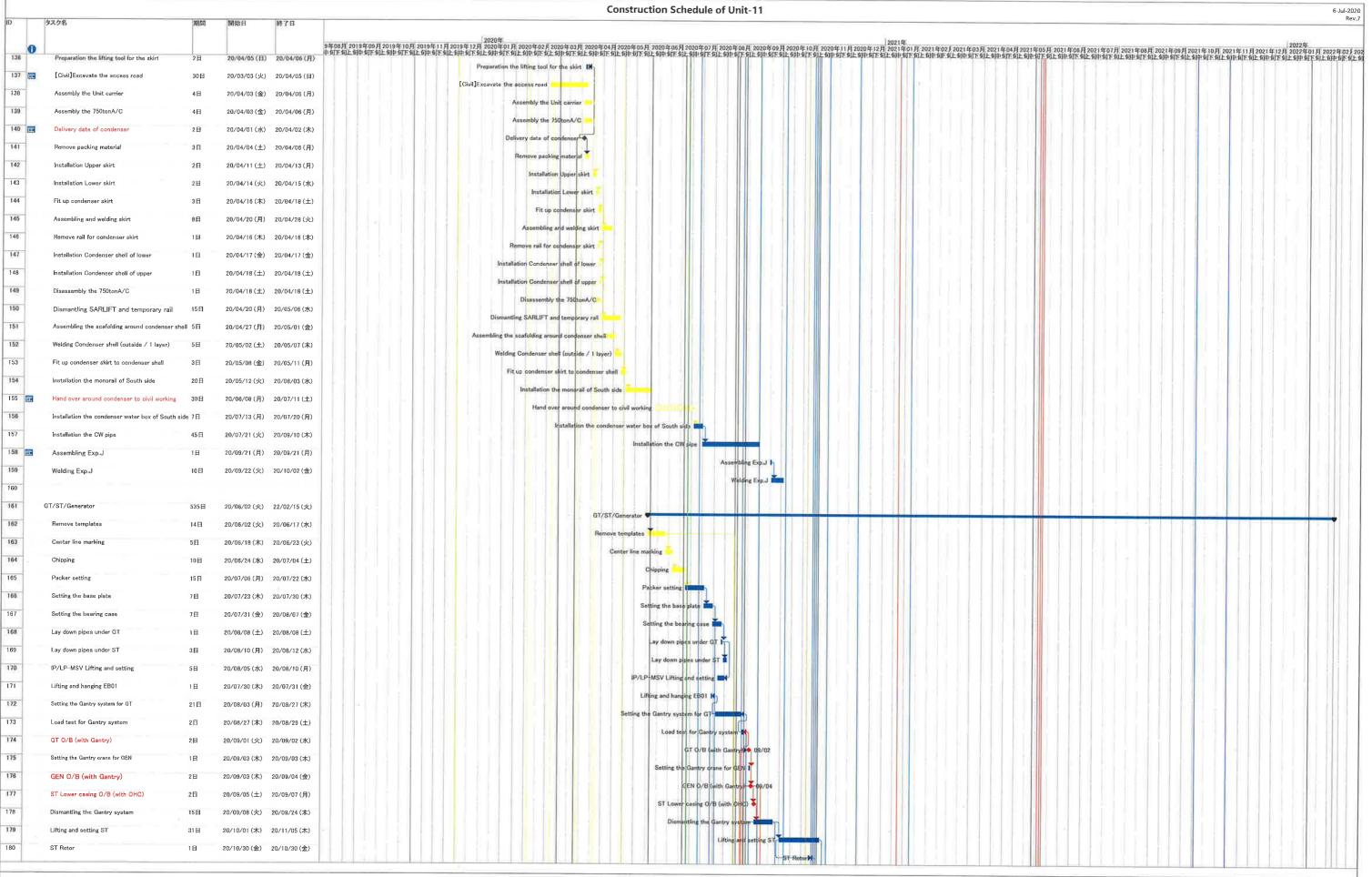


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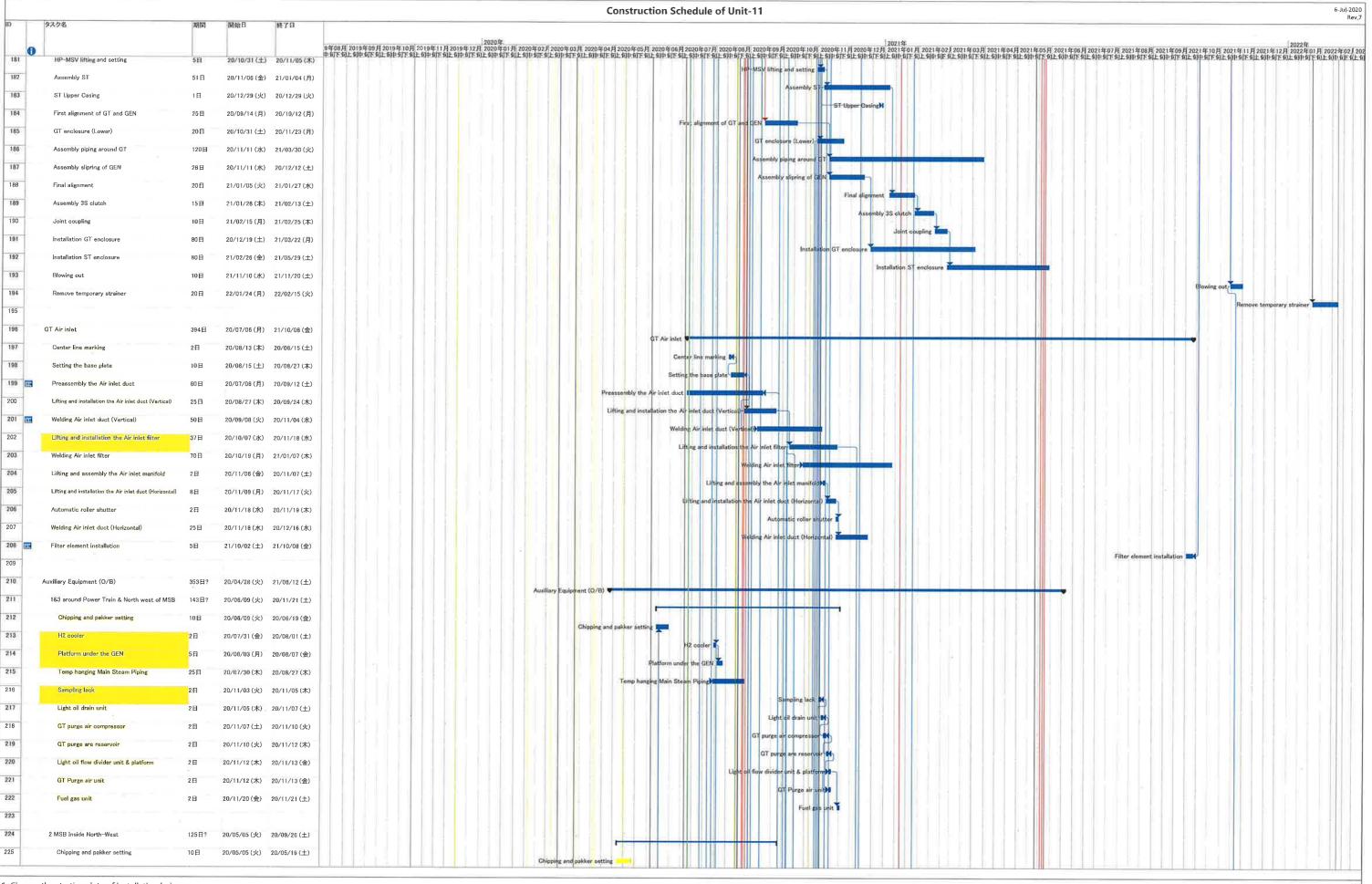
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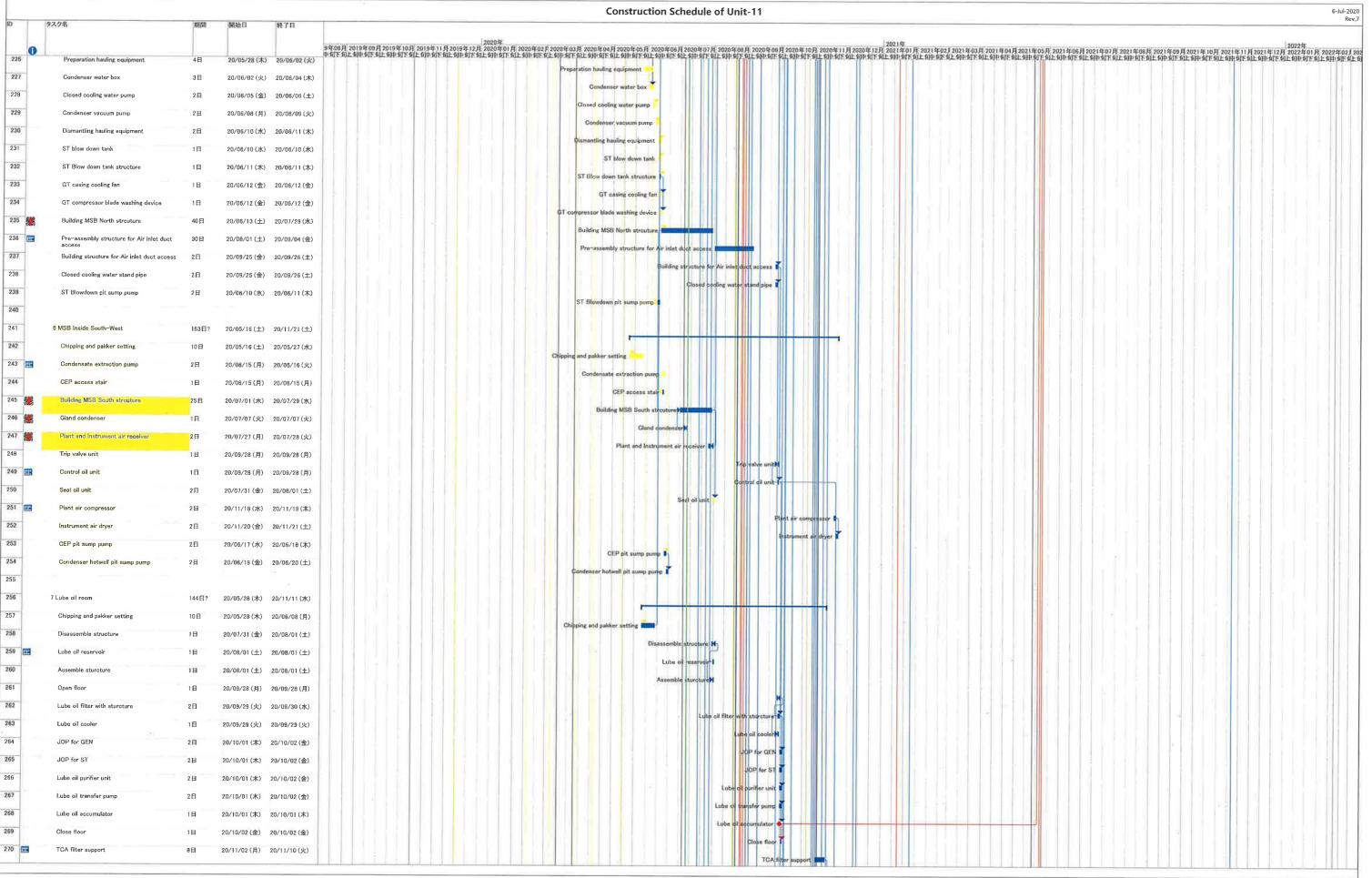


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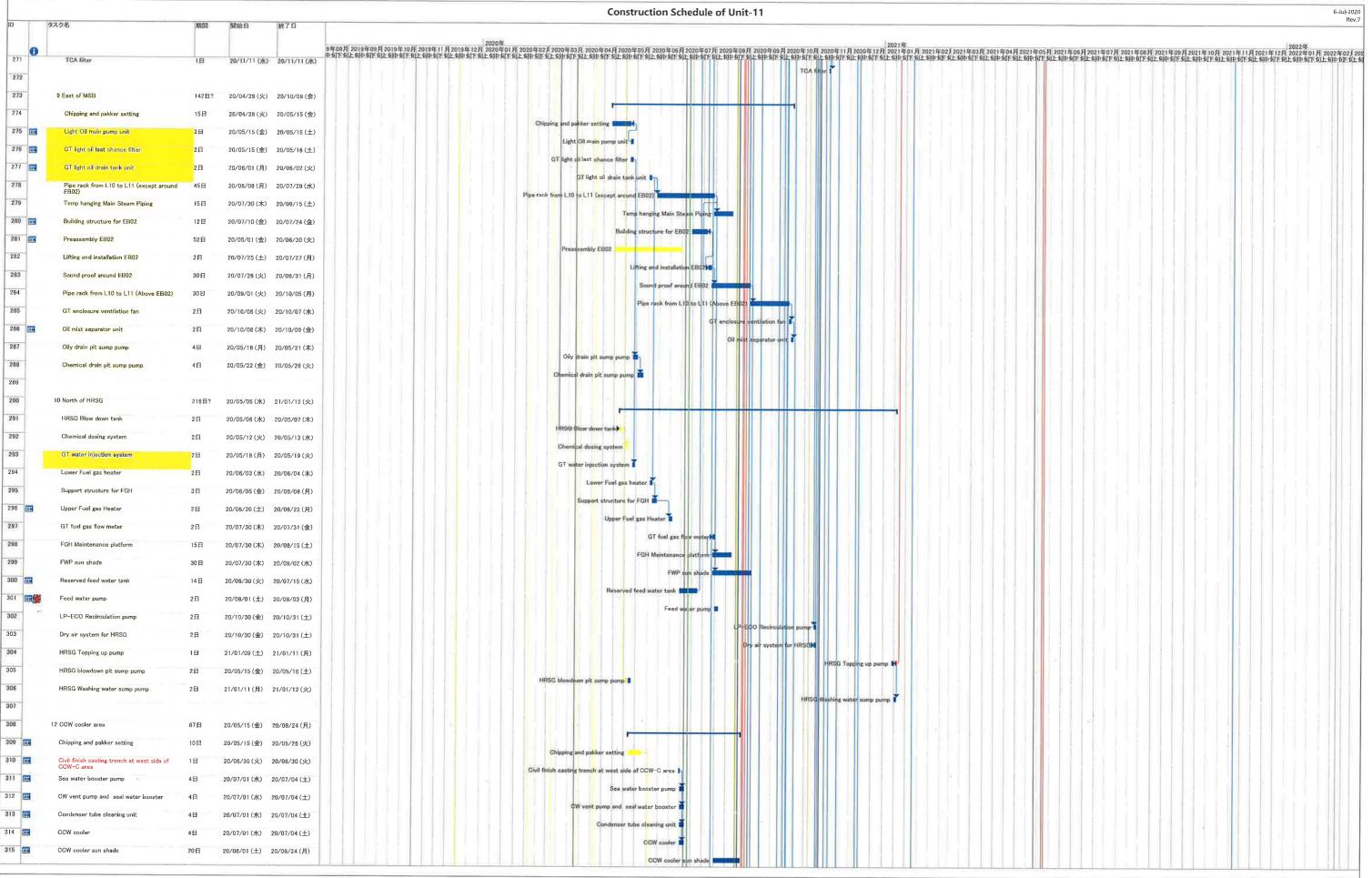


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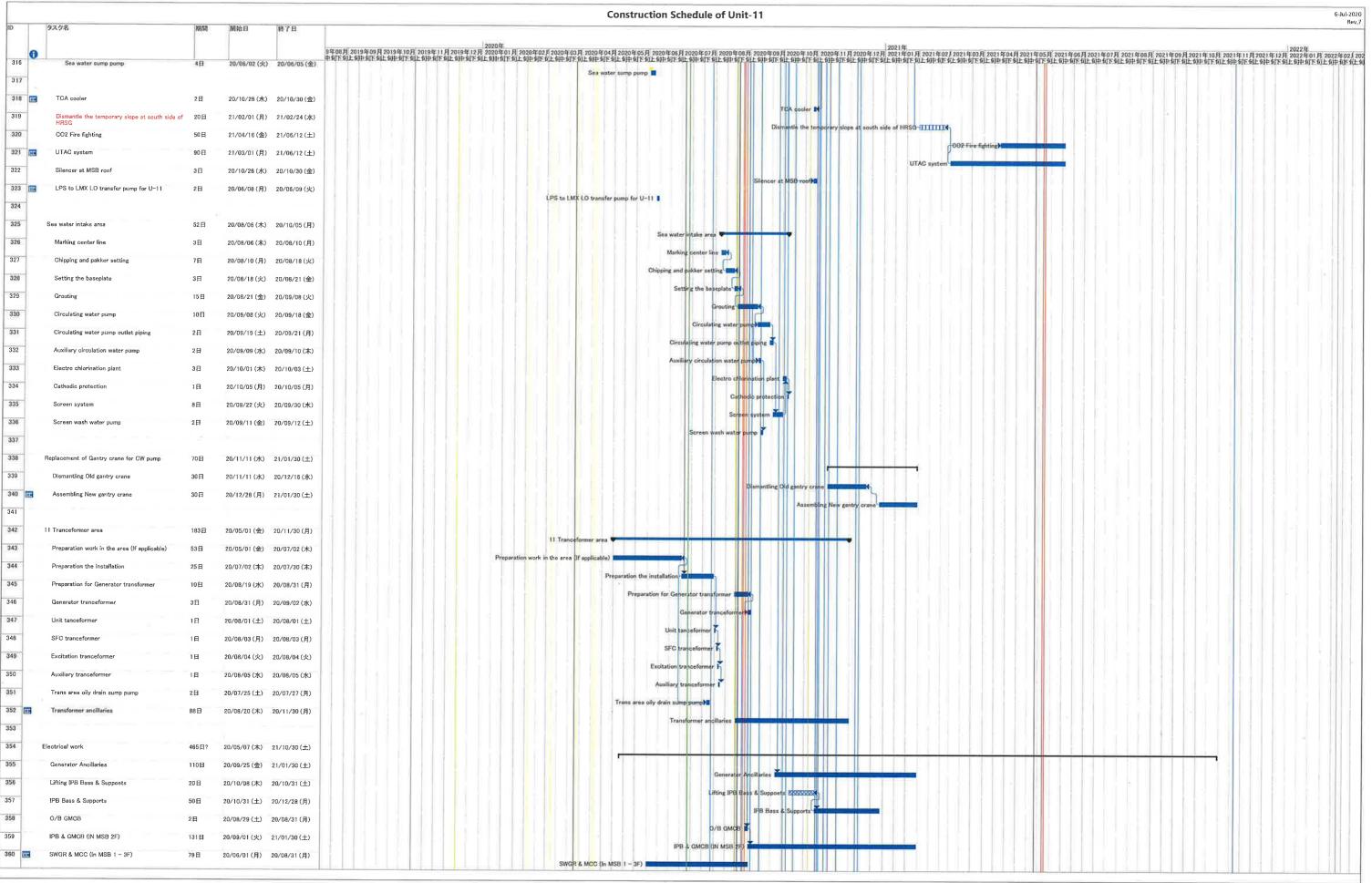


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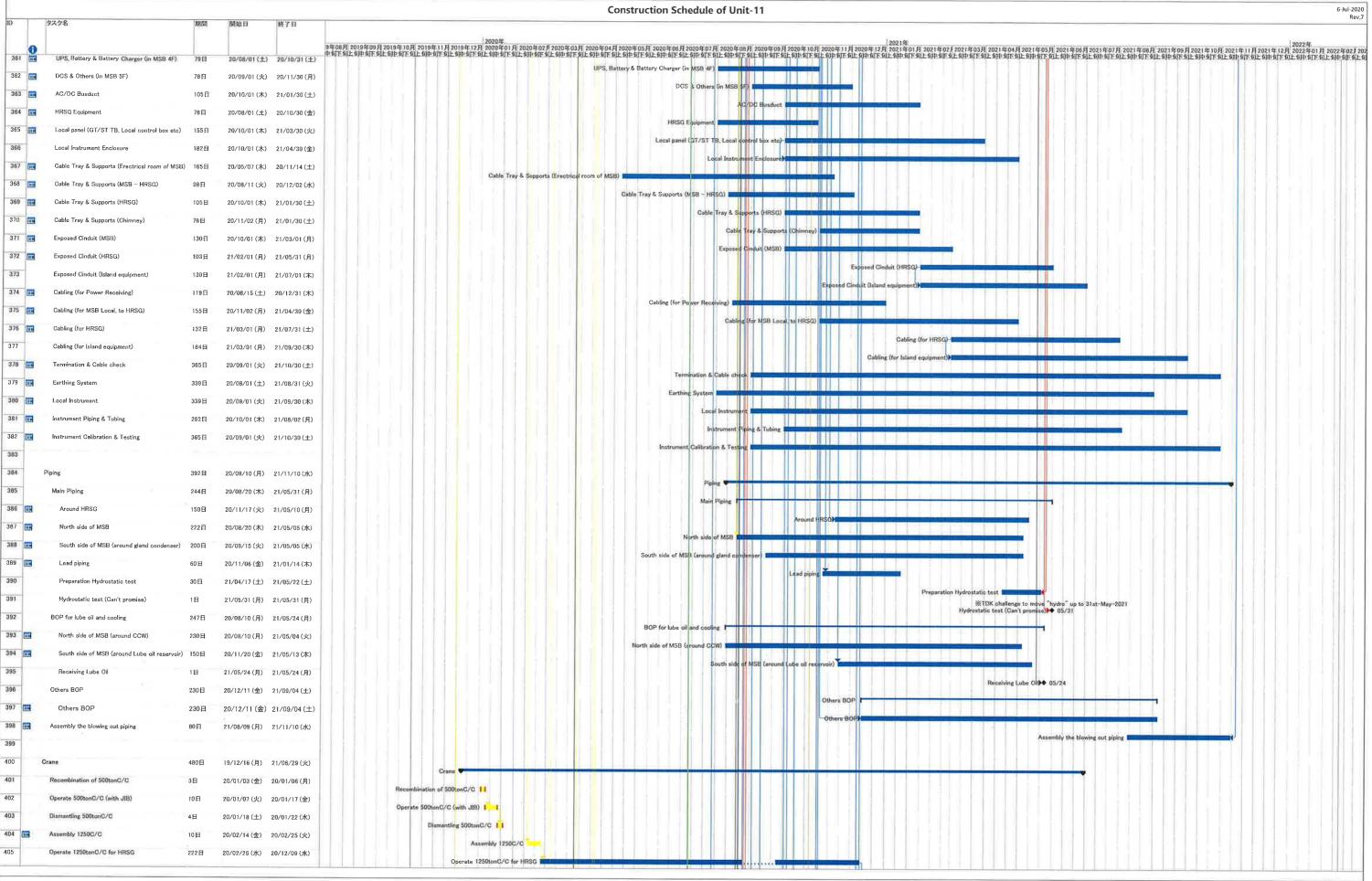


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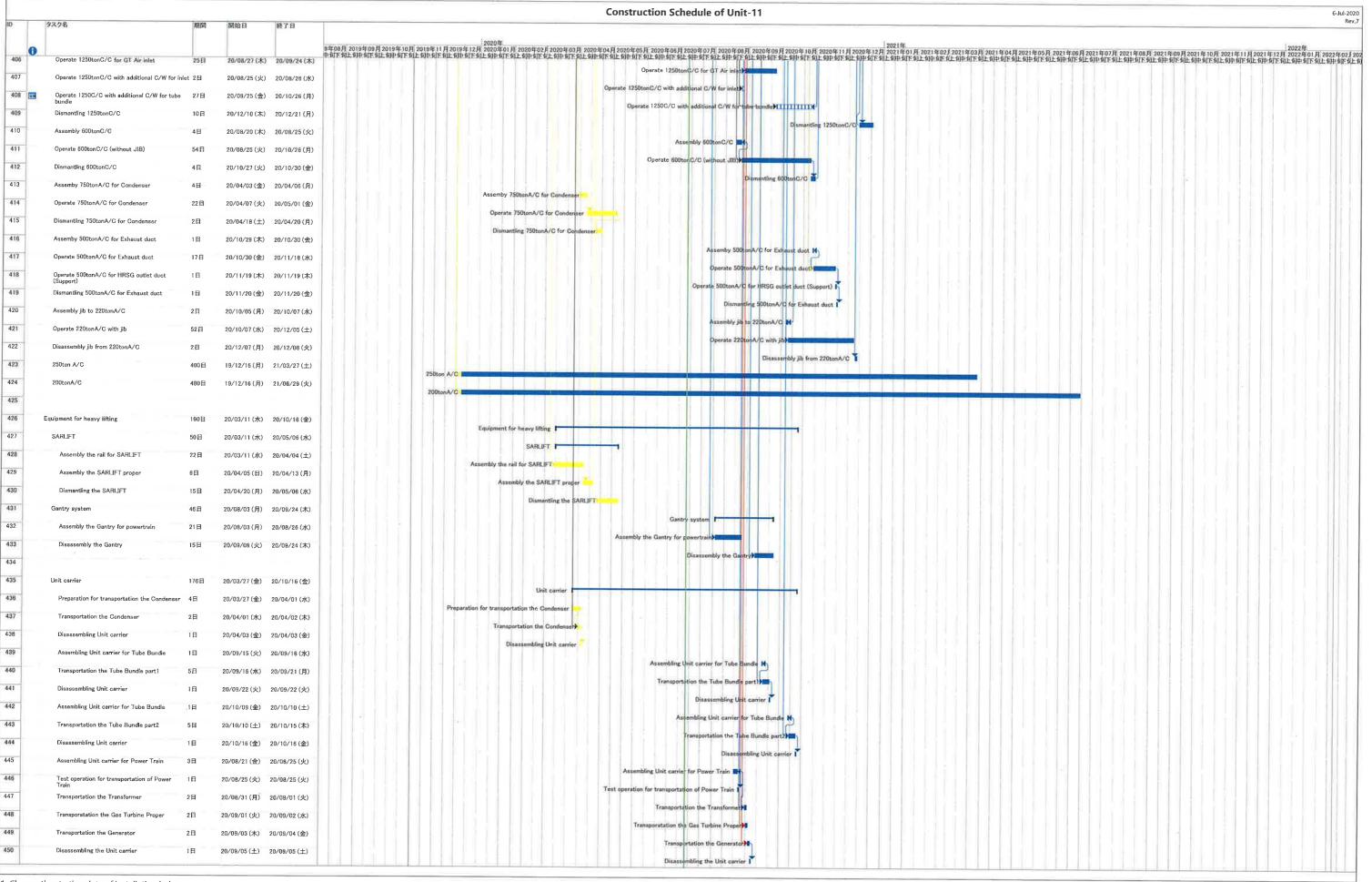


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bestantial Completion Key Dates Destantial Completion of the Whole Contract Works (1123 Days) E POSSESSION DATES te Possession Date as phased site possesion plan and PS1.4.2 te Possession Date as phased site possesion plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2	1123 days 784 days 0 days 113 days 0 days 513 days 0 days	Fri 4/12/20 Mon 8/11/21 Sun 31/12/23 Fri 4/12/20 Fri 4/12/20 Fri 1/1/21 Sat 1/5/21 Fri 1/10/21 Fri 1/10/21 Fri 1/4/22 Sun 1/5/22 Thu 30/9/21 Thu 30/9/21 Mon 1/11/21 Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Won 15/11/21 Won 28/2/22 Wed 15/12/21 Thu 31/3/22 Thu 31/3/22 Thu 31/3/22	Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 1/5/22 Fri 4/12/20 Fri 1/16/21 Fri 1/10/21 Fri 1/10/21 Fri 1/4/22 Sun 1/5/22 Tue 21/3/23 Thu 30/9/21 Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Wed 15/12/21	d at Area F1 & F2 ead cranes of L12 MSB incl awing no 553/03/2040 incluring northern part of L12 HRS	Section B1 - Area south o	 	e roof deferred works
te Possession Date as phased site possesion plan and PS1.4.2 te Possession Date as phased site possesion plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possesion plan and PS1.4.2 te Possession Date as phased site possesion plan and PS1.4.2 te Possession Date as phased site possesion plan and PS1.4.2 MPLETION DATES as per PS1.4.2 Time for Completion action A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & 2 action A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except er oof deferred works action A2 (ii) External Works including CW Inlet Culvert at Area F8A action A2 (ii) External Works including CW Inlet Culvert at Area F8B action A2 (iii) External Works including CW Inlet Culvert at Area F8B action B2 (i) - Southern Part of L12 HRSG area and its surrounding refer to Area F6B as shown in drawing no 3303/2040 including the foundations for Gas Exhaust Duct action B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C action B2 (iii) - Its Pass from G112-F westwards leading to Station Road at Area F6B action B2 (iii) - Its Pass from G112-F westwards leading to Station Road at Area F6B action B2 (iii) - Its Pass from G112-F westwards leading to Station Road at Area F6B action B2 (iii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6B and F6C action B2 (iii) - Its Pass from G112-F to 12-F for 12 HRSG area and its surrounding at Area F6B and F6C action B2 (iii) - Its Pass from G12-F to 12-F for F6B action G12-F for	0 days	Fri 4/12/20 Fri 1/1/21 Sat 1/5/21 Fri 1/10/21 Fri 1/10/21 Fri 1/1/22 Sun 1/5/22 Thu 30/9/21 Thu 30/9/21 Mon 1/11/21 Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Won 15/11/21 Won 28/2/22 Wed 15/12/21 Sat 15/1/22	Fri 4/12/20 Fri 1/1/21 Sat 1/5/21 Fri 1/1/21 Fri 1/1/0/21 Fri 1/1/0/21 Fri 1/4/22 Sun 1/5/22 Tue 21/3/23 Thu 30/9/21 Mon 1/11/21 Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22	ead cranes of L12 MSB incl	Section B1 - Area south o	 	e roof deferred works
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cetion A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except e roof deferred works action A2 (i) External Works including CW Inlet Culvert at Area F8A section A2 (iii) External Works including CW Inlet Culvert at Area F8B section A2 (iii) External Works including CW Inlet Culvert at Area F8B section A2 (iii) External Works including CW Inlet Culvert at Area F8C section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3 section B2 (i) Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 33/03/2040 including the foundations for Gas Exhaust Duct section B2 (iii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment undations 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 servoir section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations tween GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser section C - (ii) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern eas mentioned above in Area F5 section C - (iii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all deground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB section D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and tenna section D - (i) Ncrowave Antenna Room and Control Building section F (ii) - G/F, 1/F, 2/F & Hoisting Well of Admin. & Control Building section F (ii) - GAS Receiving Station and L12 Gas Rece	0 days	Mon 1/11/21 Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22	Mon 1/11/21 Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22	ead cranes of L12 MSB incl	Section B1 - Area south o	 	ne roof deferred works
e roof deferred works section A2 (ii) External Works including CW Inlet Culvert at Area F8A section A2 (ii) External Works including CW Inlet Culvert at Area F8B section A2 (iii) External Works including CW Inlet Culvert at Area F8B section B2 (iii) External Works including CW Inlet Culvert at Area F8B section B2 (iii) External Works including CW Inlet Culvert at Area F8C section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3 section B2 (iv) Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 83/03/2040 including the foundations for Gas Exhaust Duct section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment undations 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 servoir Servoi	0 days	Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22 Wed 15/12/21 Sat 15/1/22	Mon 10/1/22 Thu 31/3/22 Fri 11/3/22 Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22	awing no 553/03/2040 includ	Section B1 - Area south o	 	ne looi deletted works
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action B1 - Årea south of L12 MSB from GL12-F westwards leading to Station Road at Area F3 belon B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 3/30/2/040 including the foundations for Gas Exhaust Duct belon B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C belon B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment belon B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment belon B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser cation C - (ii) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern eas mentioned above in Area F5 bection C - (iii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all inderground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works bection C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB bection D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and tenna bection E (ii) - No. 5 Chimney with L12 Steel Flue liner bection E (ii) Tx Room of Adminintration and Control Building bection F (i) - G/F, 1/F, 2/F & Hoisting Well of Admin. & Control Building bection F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	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	Wed 15/12/21 Thu 30/9/21 Mon 15/11/21 Mon 28/2/22	awing no 553/03/2040 inclu		f L12 MSP from CL	, , , , , , , , , , , , , , , , , , , ,
ection B2 (ii) - Remaining northern part of Ll2 HRSG area and its surrounding at Area F6A and F6C scrion B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment undations 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 servoir section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations setween GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser Pit, Circulating Water Pipe Pit and equipment foundations eas mentioned above in Area F5 section C - (ii) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern eas mentioned above in Area F5 section C - (iii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all inderground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB section D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and tenna section E (ii) - No. 5 Chimney with L12 Steel Flue liner section E (ii) Tx Room of Adminintration and Control Building section E (iii) - Whole of Admin. And Control Building section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	0 days	Mon 28/2/22 Wed 15/12/21 Sat 15/1/22	Mon 28/2/22	ing northern part of LI2 HRS			12-F westwards leading to Station Road at Area F3
undations 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 servoir Servoi	0 days	Wed 15/12/21 Sat 15/1/22			G area and its surroundi	ng at Area F6A and I	F6C
action B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations etween GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser action C - (ii) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern eas mentioned above in Area F5 action C - (iii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all adderground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works action C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB action D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and attenna action D (ii) - No. 5 Chimney with L12 Steel Flue liner action E (ii) Tx Room of Adminintration and Control Building action E (iii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building action E (iii) - Whole of Admin. And Control Building section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	0 days 0 days 0 days 0 days 0 days	Sat 15/1/22	Wed 15/12/21			I I	
action C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern eas mentioned above in Area F5 section C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all adderground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB section D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and tenna section D (ii) - No. 5 Chimney with L12 Steel Flue liner section E (ii) Tx Room of Adminintration and Control Building section E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building section F (iii) - Whole of Admin. And Control Building section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	0 days 0 days 0 days 0 days			•	ection B2 - (iv) G/F of L	 2 MSB including th	he Condenser Pit, Circulating Water Pipe Pit and equipment foundations
ection C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all derground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works section C - (ii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB section D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and tenna section D (ii) - No. 5 Chimney with L12 Steel Flue liner section E (i) Tx Room of Adminintration and Control Building section E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building section E (iii) - Whole of Admin. And Control Building section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	0 days 0 days	Thu 31/3/22	Sat 15/1/22			 	Section C - (i) Roads and external grounds surrounding L12 MS
action D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and leterna section D (ii) - No. 5 Chimney with L12 Steel Flue liner section E (i) Tx Room of Adminintration and Control Building section E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building section E (iii) - Whole of Admin. And Control Building section F (i) - Sas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	0 days		Thu 31/3/22			 	
action D (ii) - No. 5 Chimney with L12 Steel Flue liner action E (i) Tx Room of Adminintration and Control Building action E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building action E (iii) - Whole of Admin. And Control Building action F (i) - Sas Receiving Station and L12 Cas Receiving Station Equipment Room (GRS) Area Extension at Area		Sun 10/4/22 Fri 10/6/22	Sun 10/4/22 Fri 10/6/22			 	
ection E (iii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building section E (iii) - Whole of Admin. And Control Building section F (iii) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area		Tue 21/3/23	Tue 21/3/23			 	
ection F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	0 days	Sun 31/10/21 Mon 28/2/22	Sun 31/10/21 Mon 28/2/22	trol Building		 	
14	0 days 0 days	Tue 31/5/22 Wed 30/11/22	Tue 31/5/22 Wed 30/11/22			 	
ition F (iii) - Pipe and Cable rack and external work at Area F9A and F9B sction F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	0 days 0 days	Tue 31/5/22 Wed 31/8/22	Tue 31/5/22 Wed 31/8/22	-		 	
ection (iii) - No. 3 GW Edquipmen Hoom, pipe and cable fack, external works at Alea 110 section G (i) - External Work surrounding Area F11 section G (ii) - External Works at Area F12 & F13	0 days 0 days 0 days	Wed 31/6/22 Wed 26/10/22 Fri 30/9/22	Wed 31/8/22 Wed 26/10/22 Fri 30/9/22			 	
ection G (iii) - FS Modification works along South Seafront Road at Area F15 ection G (iv) - 275kV cable trenches and External Works at Area F16	0 days 0 days	Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22			 	
ection G (vi) - Shunt Reactor Compound and External Works at Area F17 ection G (vi) - 275kV cable trenches and External Works at Area F18	0 days 0 days	Fri 30/9/22 Wed 1/6/22	Fri 30/9/22 Wed 1/6/22			 	
ection G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A eciton G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	0 days 0 days	Sun 8/5/22 Fri 30/9/22	Sun 8/5/22 Fri 30/9/22			 	
eciton G (ix) - Bund wall modification works at South Seafront Road at Area F21 sction G (x) - DAX Cable Diversion Works (from Part I to Part IV)	0 days 0 days	Fri 15/10/21 Sat 31/12/22	Fri 15/10/21 Sat 31/12/22	ı F21		 	
ection H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days	Tue 28/2/23	Tue 28/2/23			 	
rst Mobilization	228 days 18 days	Fri 4/12/20 Fri 4/12/20	Mon 19/7/21 Mon 21/12/20 Sun 21/3/21	_		 	
at up Temporary Site Office and Welfare Factiliites ermit Applications & Statuary Submissions visting Utilities scanning & Excavation Permit	90 days 120 days 45 days	Tue 22/12/20 Mon 22/3/21 Tue 22/12/20	Mon 19/7/21 Thu 4/2/21			 	
ower Crane erections	60 days	Sun 27/12/20	Wed 24/2/21			 	
D Approval & Consent (If required)	314 days 0 days	Thu 10/12/20 Thu 10/12/20	Wed 20/10/21 Thu 10/12/20	-		 	
Johnission and Approval of Master Programme ork Execuation Overal Plan submission & approval aterial Submissions and approval	14 days 14 days 300 days	Fri 11/12/20 Fri 11/12/20 Fri 25/12/20	Thu 24/12/20 Thu 24/12/20 Wed 20/10/21	_		 	
ateriar Submissions and approval M Model, CSD & CBWD Submission & approval	300 days 300 days 120 days	Fri 25/12/20 Fri 25/12/20	Wed 20/10/21 Wed 20/10/21 Fri 23/4/21			 	
ructure Steelwork Shop Drawing & Approval ructure Steelwork Shop Drawing & Approval	45 days 30 days	Tue 29/12/20 Fri 12/2/21	Thu 11/2/21 Sat 13/3/21			 	
etal Cladding, louvre & windows submission & BD approval etal Cladding, louvre & windows submission with the submission betal Cladding, louvre & windows shop drawing submission	45 days 45 days	Tue 29/12/20 Fri 12/2/21	Thu 11/2/21 Sun 28/3/21	-		 	
rder, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres) S Submission and BD approval	120 days 90 days	Mon 29/3/21 Fri 11/12/20	Mon 26/7/21 Wed 10/3/21	-		 	
5. Chimney windshield temporary work submission, approval & fabrication leel Flue Assessment Report and Design Drawings submission & approval	60 days 60 days	Fri 11/12/20 Tue 9/2/21	Mon 8/2/21 Fri 9/4/21			 	
olding Shutters Shop Drawing Submission & Approval abrication & Delivery of Folding Shutters	30 days 180 days	Thu 11/2/21 Sat 13/3/21	Fri 12/3/21 Wed 8/9/21			 	
ewage Pump System Design submission & approval abrication & Delivery of Sewage Pump	45 days 180 days	Tue 23/2/21 Fri 9/4/21	Thu 8/4/21 Tue 5/10/21			 	
ther material submission & approval & delivery ther material submission & approval & delivery	180 days 180 days	Sat 24/4/21 Sat 24/4/21	Wed 20/10/21 Wed 20/10/21	-		I I	
	1123 days 562 days	Fri 4/12/20 Fri 15/1/21	Sun 31/12/23 Sat 30/7/22	ıK		!	
Installation of Puddle Pipes at C.W. Julet Culvert Template setting at L12 Turbo Block Foundation	7 days 7 days 45 days	Mon 22/3/21 Thu 27/5/21 Tue 16/11/21	Sun 28/3/21 Wed 2/6/21 Thu 30/12/21			∣ ∣ Template setting at I	L12 Turbo Block Foundation
Template setting of holding down bolts at HRSG column base I-beam / channel base installation on top of transformer foundations at Transformer Area	45 days 45 days	Fri 15/1/21 Tue 1/6/21	Sun 28/2/21 Thu 15/7/21				
Overhead crane erection at turbine hall using access through a temporary opening at L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6	38 days	Mon 1/11/21	Wed 8/12/21	Overhead cra	ne erection at turbine ha	II using access thro	ough a temporary opening at L12 MSB roof between GL12-G to 12-H and
Condenser assembly and erection using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C including a clear space below 1/F between GL 12-B to 12-C	122 days	Thu 16/12/21	Sat 16/4/22			l	
Installation of power train equipment including air inlet duct using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-F to 12-H including a clear space below 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			 	
ection A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney oad at Area F1 & F2	301 days	Fri 4/12/20	Thu 30/9/21			 	
Oad at Area F1 & F2 Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	30 days 60 days	Fri 4/12/20 Sun 17/1/21	Sat 2/1/21 Wed 17/3/21			 	
Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe	60 days 14 days 70 days	Sun 1//1/21 Tue 1/6/21 Tue 15/6/21	Wed 17/3/21 Mon 14/6/21 Mon 23/8/21			 	
Installation CW met Curvert pipe Backfill Construction UG Utilities 2m deep below further surface	7 days 7 days 21 days	Tue 24/8/21 Tue 31/8/21	Mon 30/8/21 Mon 27/9/21			- -	
Temporary Paving and handover for plant erection	3 days 333 days	Tue 28/9/21 Fri 4/12/20	Thu 30/9/21 Mon 1/11/21			 	
ructure except the roof deferred workss Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21			 	
Subletting / Fabrication / Delivery Complete structural steel erection	210 days 0 days	Tue 23/2/21 Tue 19/10/21	Mon 20/9/21 Tue 19/10/21			 	
Install Crane Girders Construction of roof slab (except defer work)	11 days 14 days	Tue 12/10/21 Tue 12/10/21	Fri 29/10/21 Mon 1/11/21			 	
Touch up and handover for install overhead cranes ection A2 (i) External Works including CW Inlet Culvert at Area F8A	3 days 403 days	Sat 30/10/21 Fri 4/12/20	Mon 1/11/21 Mon 10/1/22	nes ic.B1(ii)			0 Jan '22
BD consent for Sheetpile installation Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days 30 days	Fri 4/12/20 Fri 18/12/20	Sat 2/1/21 Sat 16/1/21			l I	
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			1 	
Installation of Additional sheet Pile at South of area F8A BD Consent for ELS	7 days 28 days	Sat 17/4/21 Sat 24/4/21	Fri 23/4/21 Fri 21/5/21			 	
ELS and install CW Inlet Pipe (NW to N direction) (Assume flexible joint deliver in Sep 2021) Construction of Thrust Box & Manholes,etc	100 days 15 days	Fri 16/7/21 Thu 16/9/21	Sat 23/10/21 Thu 30/9/21	ple joint deliver in Sep 2021		 	
Backfill, UG Utilities and Road Paving ection A2 (ii) External Works including CW Intet Culvert at Area F8B	79 days 483 days	Sun 24/10/21 Fri 4/12/20	Mon 10/1/22 Thu 31/3/22			В	Backfill, UG Utilities and Road Paving
Area Possession & Clearance BD consent for Sheetpile installation	30 days 30 days	Mon 1/3/21 Fri 4/12/20	Tue 30/3/21 Sat 2/1/21			 	
Install Sheet pile BD Consent for ELS ELS card install CM latet Pine	90 days 28 days	Fri 2/4/21 Thu 1/7/21	Wed 30/6/21 Wed 28/7/21			 -	
ELS and install CW Inlet Pipe Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving	100 days 15 days 146 days	Thu 29/7/21 Wed 1/9/21 Sat 6/11/21	Fri 5/11/21 Wed 15/9/21 Thu 31/3/22			l 	
	365 days 30 days	Fri 12/3/21 Fri 12/3/21	Fri 11/3/22 Sat 10/4/21				
Area Possession & Clearance Subletting / Fabrication / Delivery (for Area F8C) BD consent for Sheetpile installation	60 days 30 days	Fri 12/3/21 Fri 12/3/21 Tue 13/4/21	Mon 10/5/21 Wed 12/5/21			 	
BD Consent for Steetphe Installation Install Sheet pile BD Consent for ELS	62 days 35 days	Thu 13/5/21 Wed 14/7/21	Tue 13/7/21 Tue 17/8/21			1 	
ELS and install CW Inlet Pipe (including soil nail installation under 19/83014) Construction of Thrust Box & Manholes,etc	76 days 30 days	Wed 18/8/21 Fri 21/1/22	Thu 20/1/22 Sat 19/2/22			I	ELS and install CW Inlet Pipe (including soil nail install
Backfill, UG Utilities and Road Paving	20 days 377 days	Sun 20/2/22 Fri 4/12/20	Fri 11/3/22 Wed 15/12/21	c.C1	5 Dec '21	 	9
Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21				
Subletting / Fabrication / Delivery Complete CW Pipe Installation & Thrust box	120 days 45 days	Fri 25/12/20 Tue 25/5/21	Fri 23/4/21 Thu 8/7/21			 	
Backfill Construction of Storm Drain & Manholes	30 days 67 days	Fri 9/7/21 Mon 20/9/21	Sat 7/8/21 Thu 25/11/21	uction of Storm Drain & Man		; 	
	20 days 273 days	Fri 26/11/21 Fri 1/1/21	Wed 15/12/21 Thu 30/9/21	1	emp Paving and handov	er for Condenser Mo	ve in
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			I I	

Page 1 of 4

act No. 19/83002 Lamma Power Station Extension Civil	Duration	Start	Finish	Master Progra
avation & Construct Pile Caps & Tie Beams & Piers allation of Pipe Pile for HRSG foundation (VO)	86 days 48 days	Mon 8/3/21 Thu 25/3/21	Thu 19/8/21 Tue 11/5/21	Jec Jan reo
Intuition of HRSG & Gas Duct foundations truction HRSG & Gas Duct foundations truction of HRSG Equipment Room incl. ABWF & BS (except T&C)	112 days 64 days	Fri 7/5/21 Tue 4/5/21	Fri 3/9/21 Thu 30/9/21	
truction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21	
fill & Construction on-grade slabs & RC plinths on top fill and Temporary paving	14 days 21 days	Fri 30/7/21 Fri 10/9/21	Mon 27/9/21 Thu 30/9/21	
n 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	
Possessiong and Clearance at Area F6A etting / 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	
truction of Underground pits (HRSG Blowdown sump pit) vation & 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	
struction underground utilities within HRSG	55 days	Mon 19/7/21	Sat 11/9/21	
struction of Underground pits (GT Oil & Chemical drain pits) fill & Construction on-grade slabs & RC plinths on top	15 days 45 days	Thu 5/8/21 Sun 12/9/21	Thu 19/8/21 Tue 26/10/21	
struct RC Walls struction of Underground utilities at F6C	90 days 21 days	Thu 22/4/21 Tue 19/10/21	Tue 20/7/21 Mon 8/11/21	s at F6C
rfill and Temporary paving on B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with	7 days the 452 days	Tue 9/11/21 Fri 4/12/20	Mon 15/11/21 Mon 28/2/22	aving C.C2(ii)
ment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power	432 day3	111 4/12/20	WOT 20/2/22	
ator, air inlet duct and lube oil reservoir I Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
etting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12) uplete excavation at Type A&C Construction Area	150 days 0 days	Fri 25/12/20 Sun 21/3/21	Sun 23/5/21 Sun 21/3/21	-
avation & Pile Caps & Tie Beams + Slabs (Turbo Block North) kfill and construction turbine block & equipment foundation	75 days 85 days	Sun 31/1/21 Tue 1/6/21	Thu 15/4/21 Tue 24/8/21	
avation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	45 days	Sat 17/4/21	Mon 31/5/21	Construction of Internal drainage & on-grade slab
struction of internal drainage & on-grade slab struction turbine block columns and upper portion for plant embed installation	90 days 83 days	Wed 1/9/21 Wed 25/8/21	Mon 29/11/21 Mon 15/11/21	ck columns and upper portion for plant embed installation
crete Turbine upper part foundation struction of Lube Oil Room	15 days 14 days	Fri 31/12/21 Tue 30/11/21	Fri 14/1/22 Fri 28/1/22	Concrete Turbine upper part foundation Construction of Lube Oil Room
crete RC walls W Works	115 days 60 days	Tue 7/9/21 Thu 4/11/21	Thu 30/12/21 Sun 2/1/22	Concrete RC walls ABFW Works
ting Services Works love temporary falsework and scaffolding for installation of power generator	45 days 13 days	Sat 15/1/22 Mon 7/2/22	Mon 28/2/22 Sat 19/2/22	R R
on B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and	377 days	Fri 4/12/20	Wed 15/12/21	c.C2(iii)
ment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condens				<mark>-</mark>
t Possession & Clearance letting / Fabrication / Delivery (for MSB L12 civil)	45 days 150 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Sun 23/5/21	
avation to foundation level at ELS SP Type A & C	80 days	Fri 1/1/21	Sun 21/3/21	
all CW Outlet pipe struction of CW Outlet Box + lowest tie beam & caps	85 days 40 days	Mon 22/3/21 Mon 22/3/21	Mon 14/6/21 Fri 30/4/21	
struction of pile caps & tie beams & sump pits up to +2.7mPD kfill & Construction of CW Inlet Box + tie beams	26 days 71 days	Sat 1/5/21 Thu 27/5/21	Wed 26/5/21 Thu 5/8/21	_
struction of pile caps & tie beams at SunShadeCover Area kfill and Construction ground beams & trenches	45 days 28 days	Tue 15/6/21 Thu 27/5/21	Thu 29/7/21 Mon 5/7/21	
struction of indoor underground drainage	14 days	Fri 13/8/21	Thu 26/8/21	
rfill & construction on-grade slabs struction Column casting and RC walls & equipment foundations	60 days 50 days	Sun 1/8/21 Thu 30/9/21	Wed 29/9/21 Thu 18/11/21	n casting and RC walls & equipment foundations
W Works ting Services Works	15 days 20 days	Fri 19/11/21 Fri 26/11/21	Fri 3/12/21 Wed 15/12/21	ABFW Works Building Services Works
Works and Ready for condenser move in	25 days	Wed 17/11/21	Wed 15/12/21	Mis. Works and Ready for condenser move in
on C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to t ern & eastern areas mentioned above in Area F5		Fri 4/12/20	Sat 15/1/22	
t Possession & Clearance letting / Fabrication / Delivery	30 days 210 days	Fri 4/12/20 Fri 25/12/20	Sat 2/1/21 Thu 22/7/21	
plete substructure & Steel Erection works for MSB struction all utilities deeper than 2m from future road level	0 days 30 days	Tue 17/8/21 Wed 18/8/21	Tue 17/8/21 Thu 16/9/21	-
struction of cable trenches kfill and lay temporary paving	30 days 91 days	Fri 17/9/21 Sun 17/10/21	Sat 16/10/21 Sat 15/1/22	Backfill and lay temporary paving
on C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 M	MSB 483 days	Fri 4/12/20	Thu 31/3/22	c.D(iii)
all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the defer s				
a Possession & Clearance letting / Fabrication / Delivery	45 days 120 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Fri 23/4/21	
struction of pile caps & tie beams at Transformer Area	180 days	Sun 31/1/21	Thu 29/7/21	
kfill and on-grade slab at transformer Area struction of Fire Walls at Transformer Area	160 days 45 days	Sun 11/4/21 Fri 8/10/21	Thu 7/10/21 Sun 21/11/21	of Fire Walls at Transformer Area
avation & Construction Blow Down Sum pit (SP Type B) aparation for S.Steelwork Erection	140 days 7 days	Wed 14/4/21 Sat 5/6/21	Tue 31/8/21 Fri 11/6/21	_
ctural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B) ctural Delivery & Erection (Equipment Floors)	67 days	Sat 12/6/21	Tue 17/8/21	
ctural Delivery & Erection (Turbine Hall South + East Elevation)	33 days 47 days	Wed 18/8/21 Mon 20/9/21	Sun 19/9/21 Mon 15/11/21	ction (Turbine Hall South + East Elevation)
it Tightening and touch up coating ernal Scaffolding Erection	99 days 97 days	Sat 3/7/21 Thu 15/7/21	Wed 24/11/21 Mon 22/11/21	ntening and touch up coating floiding Erection
struction 1/F RC Slab struction 2/F RC Slab	14 days 7 days	Mon 20/9/21 Mon 27/9/21	Sun 3/10/21 Sun 10/10/21	
struction 3/F RC Slab	18 days	Thu 30/9/21	Sun 17/10/21	
struction 4/F RC Slab	7 days 44 days	Thu 7/10/21 Mon 25/10/21	Sun 24/10/21 Tue 7/12/21	Construction 5/F RC Slab
struction 6/F RC Slab struction Upper Roof RC Slab	14 days 10 days	Wed 1/12/21 Sun 12/12/21	Tue 14/12/21 Fri 24/12/21	Construction 6/F RC Slab Construction Upper Roof RC Slab
struction Main Roof RC Slab	39 days	Tue 12/10/21	Fri 19/11/21	n Roof RC Slab
struction Defer Roof RC Slab (G.L. G-H) struction of Staircase ST-01 & lift shaft & machine room	14 days 130 days	Wed 1/12/21 Fri 27/8/21	Tue 14/12/21 Mon 3/1/22	Construction Defer Roof RC Stab (G.L. G-H) Construction of Staircase ST-01 & lift shaft & machine room
nstruction M/F RC Slab Installation	14 days 60 days	Wed 1/9/21 Tue 4/1/22	Tue 14/9/21 Fri 4/3/22	
nstruction of Staircase ST-02 except defer work	68 days 40 days	Mon 11/10/21 Sat 20/11/21	Fri 24/12/21 Wed 29/12/21	Construction of Staircase ST-02 except defer work Construction of RC plinth, kerbs & parapet Walls
ction of Skylight & Roof Features	50 days	Fri 26/11/21	Fri 14/1/22	Erection of Skylight & Roof Features
terproofing & Flooring at Roof FW Works	34 days 100 days	Thu 30/12/21 Fri 8/10/21	Thu 17/2/22 Sat 15/1/22	ABFW Works
ding Services Works al Cladding, Windows and Louvres incl. roof feature	105 days 185 days	Tue 16/11/21 Mon 23/8/21	Mon 28/2/22 Wed 23/2/22	
noval of external scaffolding	90 days	Wed 1/12/21 Mon 31/1/22	Mon 28/2/22	
allation of Catwalk at south elevation dding, ABWF & BS Works	26 days 30 days	Wed 2/3/22	Tue 1/3/22 Thu 31/3/22	
noval of tempoary works & clearance for plant erection contractor on C - (iii) Link Bridge between L11 and L12 MSB includin their associated A&A at L11 MSI	30 days B 493 days	Sun 30/1/22 Fri 4/12/20	Mon 28/2/22 Sun 10/4/22	e.D(iv)
Consent	0 days	Fri 4/12/20	Fri 4/12/20	_
letting / Fabrication / Delivery (For BS and ABWF)	250 days	Fri 25/12/20 Fri 3/12/21	Tue 31/8/21	Clearing Works and plant set-up
ring Works and plant set-up nantle of north scaffold for link bridge erection	30 days 0 days	Tue 25/1/22	Sat 1/1/22 Tue 25/1/22	Dismantle of north scaffold for link bridge erec
works at South of L11 MSB tion of link bridge structural steel	30 days 30 days	Fri 3/12/21 Sun 2/1/22	Sat 1/1/22 Mon 31/1/22	A&A works at South of L 11 MSB Frection of link bridge structural st
ting of bridge deck al roofing installation	11 days 24 days	Tue 1/2/22 Sat 12/2/22	Fri 11/2/22 Mon 7/3/22	Casting of bridge
Norks	30 days	Sun 20/2/22 Tue 22/3/22	Mon 21/3/22 Sun 10/4/22	
dy for power cable laying work by others	20 days 0 days	Sun 10/4/22	Sun 10/4/22	
on D - (ii) No. 5 Chimney with L12 Steel Flue Liner a Possession & Clearance	810 days 45 days	Fri 1/1/21 Fri 1/1/21	Tue 21/3/23 Sun 14/2/21	c.D(v)
avation & Pile Cao & Backfill	120 days 90 days	Fri 8/1/21 Sat 2/1/21	Fri 7/5/21 Thu 1/4/21	
er Crane erection	30 days	Tue 11/5/21	Wed 9/6/21	
struction of Wind Shiled + clearance for internal floors and flue+Ground slab ctural steel fabrication & Delivery for floors and staircase	308 days 201 days	Fri 2/4/21 Mon 3/1/22	Mon 4/4/22 Fri 22/7/22	
ction of steel floors struction of G/F room incl. Microwave Antenna Rm	79 days 45 days	Tue 19/4/22 Thu 7/7/22	Wed 6/7/22 Sat 20/8/22	
struction of 1/F RC slab	8 days	Sat 13/8/22	Sat 20/8/22	
struction of 2/F RC Slab struction of 3/F RC slab	8 days 8 days	Fri 5/8/22 Thu 28/7/22	Fri 12/8/22 Thu 4/8/22	
struction of 4/F RC slab struction of Roof RC slab	8 days 61 days	Thu 7/7/22 Tue 21/6/22	Thu 14/7/22 Sat 20/8/22	-
noval of tower Crane	7 days 145 days	Sun 21/8/22 Sat 5/3/22	Sat 27/8/22 Wed 27/7/22	
up for steel flue installation	60 days	Tue 5/7/22	Fri 2/9/22	
& install steel flue liner + cladding works nstallation	161 days 100 days	Thu 28/7/22 Mon 12/12/22	Wed 4/1/23 Tue 21/3/23	
allation Louvre & Doors works, Demobilization and ready for gas duct connection	30 days 17 days	Thu 5/1/23 Thu 5/1/23	Fri 3/2/23 Sat 21/1/23	-
on D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for	102 days	Tue 1/3/22	Fri 10/6/22	
lation of microwave and antenna pletion of Microwave Antenna Room	0 days	Tue 1/3/22	Tue 1/3/22	
naining ABWF & BS Works on E - (i) Administration and Control Building (Transformer Room)	100 days 332 days	Thu 3/3/22 Fri 4/12/20	Fri 10/6/22 Sun 31/10/21	
a Possession & Clearance + BD consent letting / Fabrication / Delivery (For Civil+BS+ABWF)	60 days	Fri 4/12/20 Tue 2/2/21	Mon 1/2/21 Wed 12/5/21	<u> </u>
avation works	100 days 45 days	Fri 4/12/20	Sun 17/1/21	
n Earth Grid Installation cap and Tie Beam	45 days 45 days	Sun 3/1/21 Sun 3/1/21	Tue 16/2/21 Tue 16/2/21	
er Crane Erection and modification works structure + Bearing walls + On grade slabs	49 days 115 days	Wed 10/2/21 Wed 17/2/21	Tue 30/3/21 Fri 11/6/21	
struction of RC up to 1/F incl. staircases	69 days	Sat 12/6/21	Thu 19/8/21	_
VF at G/F	52 days 452 days	Fri 10/9/21 Fri 4/12/20	Sun 31/10/21 Mon 28/2/22	
		Sun 31/10/21	Sat 20/11/21	and plant set-up
on E (ii) Handover G/F, 1/F, 2/F & Hoisting Well aring Works and plant set-up	21 days 180 days		Sat 31/7/01	
on E (ii) Handover G/F, 1/F, 2/F & Hoisting Well ring Works and plant set-up letting / Fabrication / Delivery (For NSC Lift) struction of RC up to 2/F incl. staircases	180 days 25 days	Sun 3/1/21 Sat 14/8/21	Sat 31/7/21 Mon 13/9/21	
on E (ii) Handover G/F, 1/F, 2/F & Hoisting Well aring Works and plant set-up bletting / Fabrication / Delivery (For NSC Lift) struction of RC up to 2/F incl. staircases struction of RC up to 3/F incl. staircases npoary Hoist erection struction of RC up to 4/F incl. staircases	180 days	Sun 3/1/21		

Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12 **Master Programme** Construction of RC up to R/F incl. staircases Construction of RC up to lift machine room
Construction of RC up to UR/F
External Wall Finish, Cladding + Windows and Louvres + Features Mon 25/10/2 21 days Sun 14/11/21 Mon 15/11/21 Thu 30/9/21 Fri 8/10/21 Sun 5/12/21 Mon 14/2/22 Mon 10/1/22 21 days 138 days Construction of RC up to UR/F 95 days ABWF at 2/F 96 days Fri 15/10/21 Tue 18/1/22 Building Services Works at G/F, 1/F, 2/F & Hoisting Well ection E (iii) Whole of Administration and Control Building Subletting / Fabrication / Delivery (For BS+ABWF) 147 days 544 days 127 days Tue 5/10/21 Mon 28/2/22 288 Fri 4/12/20 Sat 23/10/21 290 291 Construction of New UG Grev Water Tank 60 days Mon 20/3/23 Thu 18/5/23 Submission of WW046 for commencemen ABWF at 3/F 60 days 120 days 90 days Wed 19/1/22 Mon 25/10/21 Wed 24/11/21 Sat 19/3/22 Mon 21/2/22 Mon 21/2/22 ABWF at R/F 60 days Wed 15/12/21 Sat 12/2/22 ABWF at UR/F + Lift Machine Room ABWF at UR/F + Lift 45 days Wed 5/1/22 Fri 18/2/22 Mon 7/2/22 Fri 7/1/22 Mon 24/1/22 296 Removal of external scaffolding 39 days Wed 9/3/22 Waterproofing & screeding 60 days Mon 6/12/21 Thu 3/2/22 Removal of Tower Crane
External utilities and road work
Building Services Works 7 days 45 days 160 days Thu 10/3/22 Tue 8/2/22 Tue 7/12/21 Wed 16/3/22 Thu 14/4/22 Sun 15/5/22 Sat 21/5/22 300 False ceiling after BS works 54 days Tue 29/3/22 Submission of WW046 for completion 30 days 14 days Wed 9/3/22 Fri 13/5/22 Thu 7/4/22 Thu 26/5/22 Tue 31/5/22 Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area 548 days Tue 1/6/21 Wed 30/11/22 Extension at Area F14 Area Possession & Clearance + BD consent 90 days Tue 1/6/21 Subletting / Fabrication / Delivery
Installation of pipe pile at north of GRS (VO)
Construction Equipment room extension
Modification of existing drainage
Excavation & earthing for Skid foundations
Construction of Skild poundations Tue 22/6/21 Mon 5/7/21 Sun 31/10/21 Fri 25/3/22 Mon 9/5/22 30 days Wed 21/7/2 134 days Mon 15/11/21 145 days 45 days 21 days Thu 24/3/22 Sun 8/5/22 Sun 29/5/22 Construction of Skid foundation 45 days Mon 30/5/22 Wed 13/7/22 Construct underground utilities and drainage Backfill and road works Relocate / install new fencing for completion 45 days Thu 14/7/22 Sat 27/8/22 60 days 21 days 14 days Sun 28/8/22 Thu 27/10/22 Thu 17/11/22 Wed 26/10/22 Wed 16/11/22 Wed 30/11/22 316 Mis. Work and ready for OP inspection ection F (ii) - Pipe and Cable rack and external work at Area F9A and F9B 515 days Sat 2/1/21 90 days 30 days ent + Site Possession at Area F9A & F9B Thu 1/4/21 Excavation & Plate load test Tue 30/11/21 Excavation & Plate load tes Wed 1/12/21 Construction new footing for pipe rack 30 days Thu 30/12/21 Underground utilites and road works for completion Thu 31/3/22 Tue 31/5/22 Structural Steel fabrication & Delivery
Ercetion of new pipe rack Sat 2/10/21 Fri 31/12/21 Wed 11/5/22 Thu 30/12/21 Thu 10/3/22 Tue 31/5/22 324 325 Mis. Work and ready for OP inspection 21 days ection F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10 457 days Wed 31/8/22 Area Possession & Clearance + BD consent Subletting / Fabrication / Delivery For ABWF + BS 90 days 150 days Sun 29/8/21 Fri 29/10/21 328 Tue 1/6/21 Installation of Sheet Pile (VO) 85 days Tue 1/6/21 Tue 24/8/21 28 days Consent for ELS Works Wed 25/8/21 Tue 21/9/21 Excavation & Plate load test
Construction new footing for equipment room Wed 22/9/21 Thu 23/12/21 Thu 21/10/21 Mon 28/2/22 Fri 29/4/22 332 333 Superstructure for equipment room Tue 1/3/22 60 days ABWF Works 45 days Sat 30/4/22 Mon 13/6/22 BS Works
Construction RC Wall & plinths & drainage at Chlorinator area Wed 1/6/22 Wed 30/3/22 Sat 14/5/22 Thu 30/6/22 Fri 13/5/22 Sun 12/6/22 30 days 336 External wall finish & remove scaffolding 30 days Excavation & Plate load test for pipe rack extension (For F45-47 & F49) st for pipe rack extension (For F45-47 & F49) Sun 14/11/21 30 days Sat 16/10/21 Construction new footing for pipe rack (For F45-47 & F49)
Underground utilities and road works for completion
Structural Steel fabrication & Delivery ction new footing for pipe rack (For F45-47 & F49) Mon 15/11/21 Wed 29/12/21 Sun 27/2/22 Fri 11/3/22 Fri 11/3/22 Thu 30/12/21 Backfilling and prepare for steel erection 12 days Mon 28/2/22 Excavation & Plate Load test for pipe rack extenstion (For F48 F56)
Construction of new footing for pipe rak (For F48 & F56)
Erection of new pipe rack (For F48 & F56)
Erection of new pipe rack (For F48 & F56)
Erection of new pipe rack (For F45-47 & F49) 14 days Wed 30/3/22 Tue 12/4/22 Tue 26/4/22 14 days Wed 13/4/22 Tue 3/5/22 Sat 12/3/22 Wed 6/7/22 Fri 20/5/22 70 days Wed 31/8/22 Mis. Work and ready for OP inspection 56 days Thu 7/7/22 ection G (i) - External Work surrounding Area F11
Area Possession & Clearance after handover from No. 5 Intake Contractor Subletting / Fabrication / Delivery 145 days Sat 4/6/22 Wed 26/10/22 Sat 4/6/22 Sat 4/6/22 Sun 3/7/22 Sun 3/7/22 350 30 days 30 days Submission WWO046 for commencement 30 days Sat 4/6/22 Sun 3/7/22 Tue 19/7/22 Construct Underground utilities and drainage Install new FS Hydrant Submission WWO046 for completeion 30 davs Mon 20/6/22 20 days 30 days Mon 20/6/22 Sat 30/7/22 Sat 9/7/22 Sun 28/8/22 Construction Road extension 58 days Sat 30/7/22 Sun 25/9/22 Construction road paving and install fencing
Ready for OP inspection
ection G (ii) - External Works at Area F12 & F13 30 days Mon 26/9/22 Tue 25/10/22 14 days 666 days Thu 13/10/22 Fri 4/12/20 358 Wed 26/10/22 Area Possession & Clearance after handover from other 45 days Fri 4/12/20 Sun 17/1/21 Subletting / Fabrication / Delivery 180 days Thu 4/3/21 Mon 30/8/21 21 days 30 days Sat 23/10/21 Sat 13/11/21 Fri 12/11/21 Sun 12/12/21 Submission WWO046 for commencement Construct Underground utilities and drainage Install new FS Hydrant 90 days Mon 13/12/21 Sat 12/3/22 30 days Sun 13/3/22 Mon 11/4/22 30 days 127 days Tue 12/4/22 Thu 12/5/22 Wed 11/5/22 Thu 15/9/22 Fri 30/9/22 366 Submission WWO046 for completion Construction Road extension
Complete with Mis. Works for completion 15 days Fri 16/9/22 ection G (iii) - FS Modification works along South Seafront Road at Area F15 183 davs Area Possession & Clearance after handover from other Subletting / Fabrication / Delivery Sun 15/5/22 Thu 21/4/22 Fri 1/4/22 Fri 1/4/22 Fri 1/4/22 21 days Temporary Traffice Arrangement approva 14 days Thu 14/4/22 Utilities scanning and expose existing FS
Determine new FS alignment
Submission to FSD 14 days Fri 15/4/22 Thu 28/4/22 21 days 14 days 374 Fri 29/4/22 Thu 19/5/22 60 days Fri 3/6/22 Backfill and reinstatment + report to FSD 60 days Tue 2/8/22 Fri 30/9/22 ection G (iv) - 275kV cable trenches and External Works at Area F16 Area Possession & Clearance 518 days 60 days Sat 1/5/21 Sat 1/5/21 Wed 17/11/21 378 Fri 30/9/22 Subletting / Fabrication / Delivery 210 days Tue 14/6/22 Temporary Traffice Arrangement approval Removal of aboveground services Utilities scanning and expose exising UU 60 days Sat 1/5/21 Tue 29/6/21 60 days 30 days 382 Wed 30/6/21 Sat 28/8/21 383 Arrange of diversion existing UG utilities 90 days 173 days Tue 28/9/21 Mon 27/12/21 Sun 26/12/21 Fri 17/6/22 Construct new cable trenches Realigment / install new UG utilities 60 days Sat 18/6/22 Tue 16/8/22 Beachfill and reinstate & ready for cable laying by others
ection G (v) - Shunt Reactor Compound and External Works at Area F17
Temporary Traffice Arrangement approval 45 days Wed 17/8/22 Fri 30/9/22 666 days Fri 4/12/20 Fri 4/12/20 Fri 30/9/22 45 days Sun 17/1/21 Subletting / Fabrication / Delivery
BD approval & consent for pipe pile installation
Area Possession & Clearance 100 days 90 days Fri 25/12/20 Fri 4/12/20 Thu 4/3/21 Thu 18/3/21 390 Sat 3/4/21 Wed 3/3/21 Wed 17/3/21 Wed 7/4/21 14 days 21 days Removal of aboveground services Utilities scanning and expose exising UU

Arrange of diversion existing UG utilities 15 days Thu 8/4/21 Thu 22/4/21 Fri 23/4/21 Sun 23/5/21 Fri 23/7/21 Sun 6/6/21 Thu 22/7/21 61 days 28 days Install pipe piles
BA14 for pipepile and BD consent for ELS Thu 19/8/2 Excavation & install earthing 35 days Fri 20/8/21 Thu 23/9/21 Construct Pile Caps and Tie Beams Backfill & Erect scaffold Construction of SRC Walls Sun 7/11/21 Sun 28/11/21 Fri 11/2/22 399 Fri 24/9/21 ckfill & Erect scaffold Wall finish and remove scaffolding 24 days Sat 12/2/22 Mon 7/3/22 Construct new cable trenches 60 days Tue 8/3/22 Fri 6/5/22 Install new UG Utilities, Backfill and reinstate & ready for cable laying by Others for DAX1 Realigment / install new UG utilities (for DAX2, APX1 & APX3) Thu 7/4/22 Sat 7/5/22 Backfill and reinstate & ready for cable laying by others (for DAX2, APX1, & APX3) 30 days Thu 1/9/22 Fri 30/9/22 ection G (vi) - 275kV cable trenches and External Works at Area F18
Temporary Traffice Arrangement approval
Subletting / Fabrication / Delivery 397 days Sat 1/5/21 Wed 1/6/22 45 days 60 days 408 Area Possession & Clearance 15 days Sat 1/5/21 Sat 15/5/21 Removal of aboveground services Utilities scanning and expose exising UU Arrange of diversion existing UG utilities 30 davs Sun 16/5/21 Mon 14/6/21 Tue 15/6/21 Fri 30/7/21 Thu 29/7/21 Mon 27/9/21 Fri 18/3/22 172 days Construct new cable trenches Tue 28/9/21 Realigment / install new UG utilities 45 days Sat 19/3/22 Mon 2/5/22 neadifficient / installation with dumines

Beautified and reinstate & ready for cable laying by others

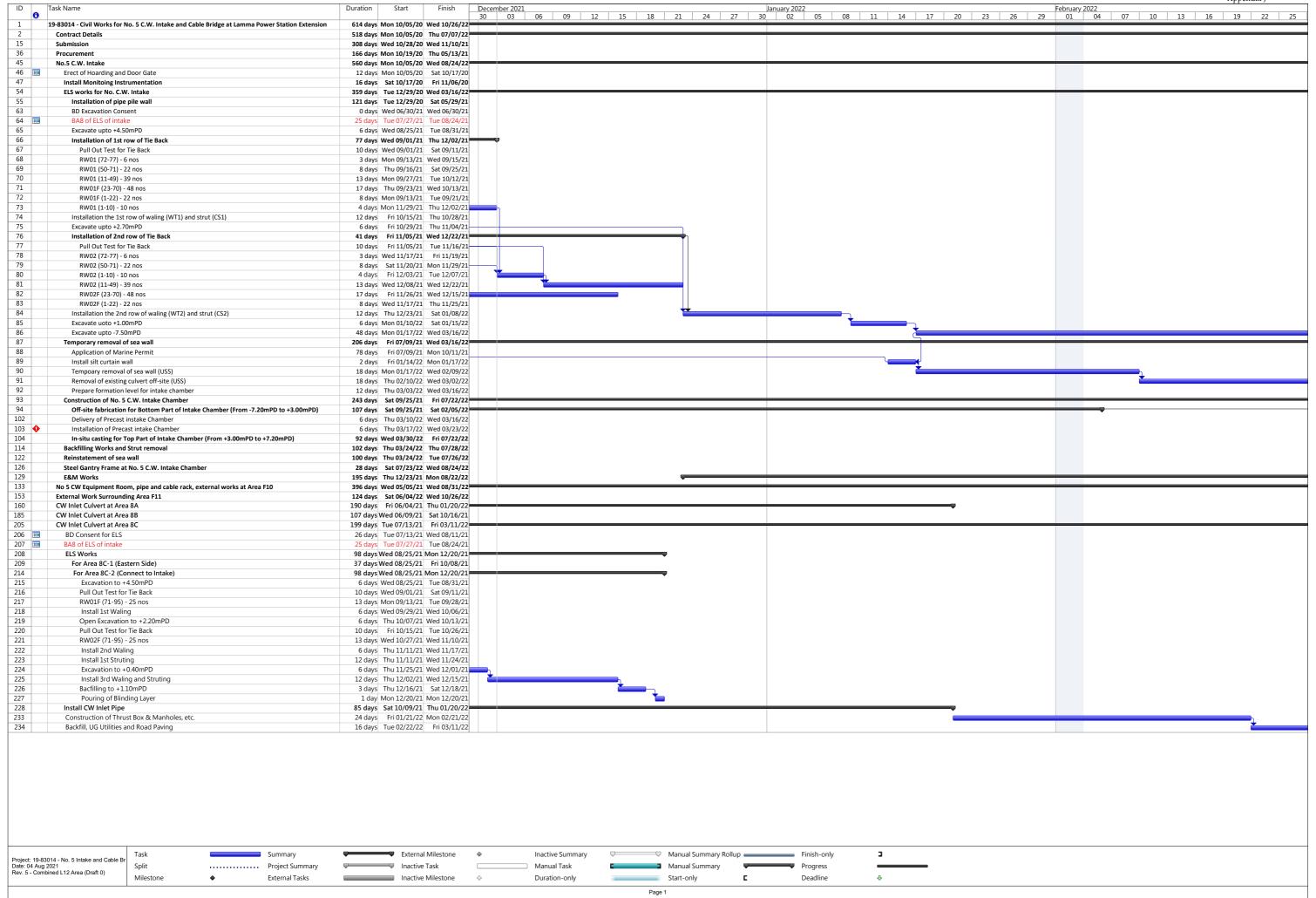
ection G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A Tue 3/5/22 Fri 4/12/20 Fri 4/12/20 416 30 days Wed 1/6/22 5<mark>21 days</mark> 30 days Sun 8/5/22 Sat 2/1/21 Area Possession & Clearance 60 days 300 days 90 days Mon 22/2/21 Subletting / Fabrication / Delivery Fri 25/12/20 Temporary Traffice Arrangement approval ELS BD approval & consent Wed 29/9/21 Wed 17/3/21 Fri 10/12/21 Demolition of existing carriageway 30 days Removal of aboveground services 21 days Thu 30/9/21 Wed 20/10/21 Utilities scanning and expose exising UU
Arrange of diversion existing UG utilities
Excavation and construction of new Flood wall 21 days 30 days 65 days 424 425 Thu 21/10/21 Sat 11/12/21 Wed 10/11/21 sing UU Sun 9/1/22 Tue 15/3/22 Arrange of diversion existing UG utilitie Realigment / install new UG utilities Wed 16/3/22 30 days Thu 14/4/22 Backfill and construct new carriageway 18 days Fri 15/4/22 Mon 2/5/22 Tue 3/5/22 Sun 8/5/22 ection G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B 365 days Fri 1/10/21 Fri 30/9/22 Area Possession & Clearance 45 days Fri 1/10/21 Sun 14/11/21 Subletting / Fabrication / Delivery
Temporary Traffice Arrangement approval Fri 22/10/21 Wed 19/1/22 Subletting / Fabrication / Delivery Temporary Traffice Arrangen ELS BD approval & consent 90 days Fri 15/10/21 ELS BD approval & consent Wed 12/1/22 MASTER PROGRAMME Rev 1-B 23 Aug 2021 Task

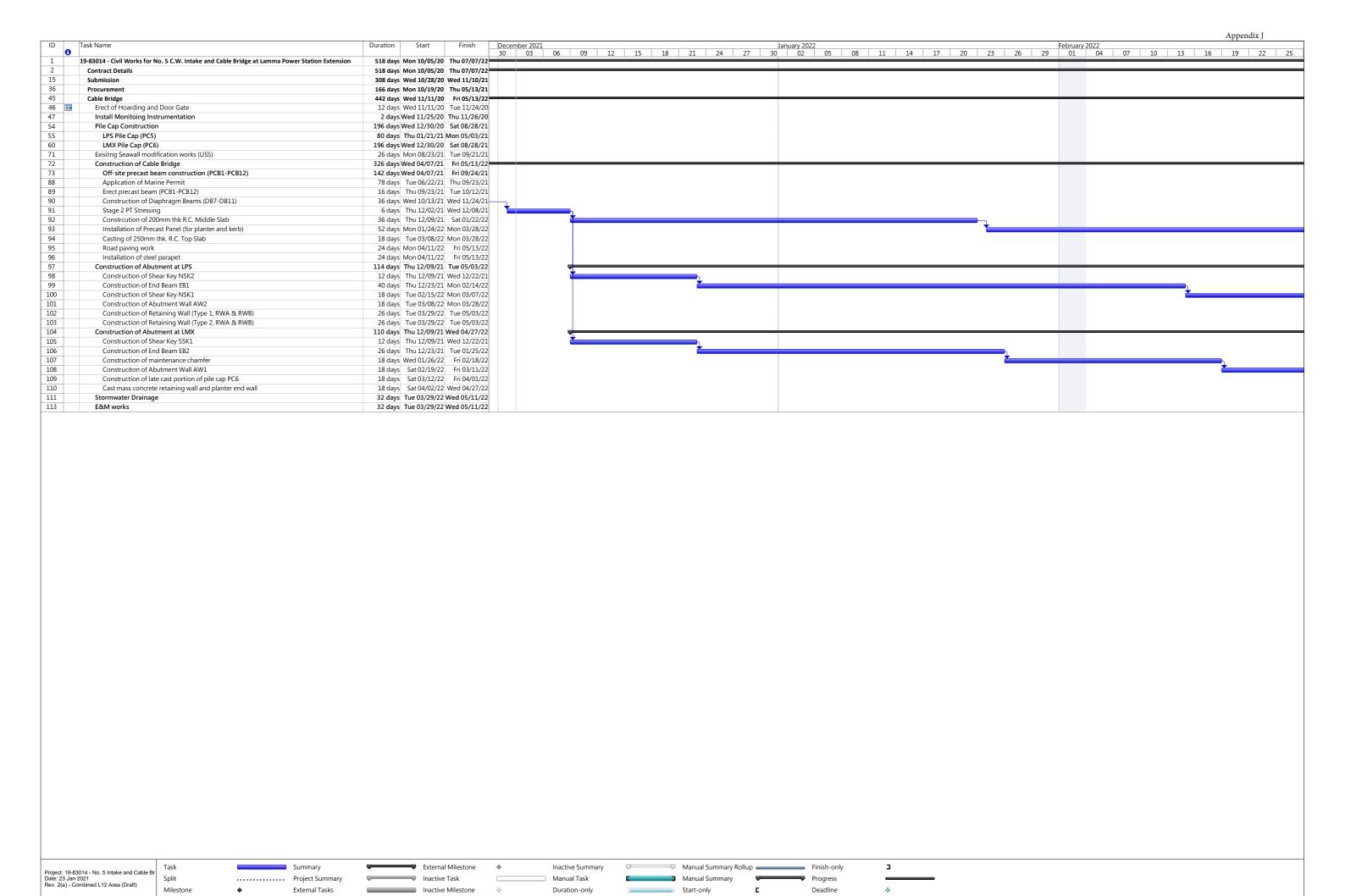
C	ontract No. 19/83002 Lamma Power Station Extension Civil and B	suilding \	Works for Un	IIT L 12		Master Programme
ID 135	Task Name Demolition of existing carriageway	Duration 60 days	Start Fri 1/10/21	Finish Mon 29/11/21	Dec Jan Demolition of existing carriageway	Feb
436	Removal of aboveground services	21 days	Tue 30/11/21	Mon 20/12/21	Removal of aboveground services	
437 438		21 days 30 days	Tue 21/12/21 Tue 11/1/22	Mon 10/1/22 Wed 9/2/22	Utilities so	canning and expose exising UU —Arrange of diversion existing UG util
439 440	Install Sheetpiles BA14 for sheetpile and BD consent for ELS	55 days 28 days	Thu 10/2/22 Wed 6/4/22	Tue 5/4/22 Tue 3/5/22		F
441	Excavation and construction of new Flood wall	90 days	Wed 4/5/22	Mon 1/8/22		
442 443	Realigment / install new UG utilities Backfill and construct new carriageway	30 days 21 days	Tue 2/8/22 Thu 1/9/22	Wed 31/8/22 Wed 21/9/22		
144 145		9 days 316 days	Thu 22/9/22 Fri 4/12/20	Fri 30/9/22 Fri 15/10/21		
446 447	Area Possession & Clearance Subletting / Fabrication / Delivery	45 days 90 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Wed 24/3/21	<u> </u>	
448	Temporary Traffice Arrangement approval	165 days	Fri 4/12/20	Mon 17/5/21		
449 450	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		
451 452	Removal of aboveground services	14 days	Tue 1/6/21 Tue 15/6/21	Mon 14/6/21 Mon 5/7/21		
453	Arrange of diversion existing UG utilities (include FS pipe under 17/8002)	21 days 40 days	Tue 6/7/21	Sat 14/8/21		
454 455	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		
456 457	Realigment / install new UG utilities (include FS pipe under 17/8002) Backfill and construct new carriageway	60 days 16 days	Sun 1/8/21 Thu 30/9/21	Wed 29/9/21 Fri 15/10/21		
458	Mis. Work for completion	5 days	Mon 11/10/21	Fri 15/10/21		
459 460	Section G (x) - DAX Cable Diversion Works (from Part I to Part IV) Temporary Traffice Arrangement approval	758 days 14 days	Fri 4/12/20 Fri 4/12/20	Sat 31/12/22 Thu 17/12/20	!	
461 462	Subletting / Fabrication / Delivery Area Possession & Clearance	90 days 45 days	Fri 25/12/20 Fri 4/12/20	Wed 24/3/21 Sun 17/1/21		
463	Identification of existing cable trench	7 days	Mon 18/1/21	Sun 24/1/21		
464 465	Part 1 Re-excavation works incl.construction of joint bay (at Water Reservoir Road) Part 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	246 days 310 days	Mon 25/1/21 Mon 25/1/21	Mon 27/9/21 Tue 30/11/21	Part 1 Re-excavation works incl construction of joint bay (other than Reservoir r	road base on revised routing)
466	Part 2 Re-excavation works incl. joint bay	120 days	Mon 1/11/21	Mon 28/2/22		⊢ P art
467	Part 3 Re-excavation works incl. joint bay	242 days	Mon 1/11/21	Thu 30/6/22	1	
468 469	Part 4 Re-excavation works incl. joint bay & new oil tank pits Backfill & Reinstatement Part 1	92 days 61 days	Sat 1/10/22 Mon 1/11/21	Sat 31/12/22 Fri 31/12/21	Backfill & Reinstatement P.	art 1
470 471	Daokiii a riciiistatoment rait 2	61 days 61 days	Sun 1/5/22 Thu 1/9/22	Thu 30/6/22 Mon 31/10/22		
472	Section H - All remaining works shall be completed for reporting completion to BD and ready for OP	775 days	Wed 17/11/21	Sun 31/12/23	1	
473	inspection (PS1.4.4) Deferred works (MSB & HRSG) Listed in PS 1.4.4	272 days	Wed 17/11/21	Mon 15/8/22	1	
474	Construction of L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the Employer's Specialist Contractors	38 days	Wed 17/11/21	Fri 7/1/22	Construction o	IL12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead cra
475	Construction of walls ofL12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircases	92 days	Mon 16/5/22	Mon 15/8/22	-	
	including the enclosure walls between G/F and 1/F. The Contractor shall allow access for the Employer's Specialist Contractors to use the hoisting we					
476 477	Provision in associated with hoisting well Construction of internal partition wall at 1/F ofL12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Facade at	21 days 30 days	Mon 6/6/22 Sat 16/4/22	Sun 26/6/22 Sun 15/5/22		
	1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C					
478	Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable shelter at Transformer Area	92 days	Mon 16/5/22	Mon 15/8/22		
479 480	Deferred works (DAX1 and DAX2) Listed in PS 1.4.4 Backfilling of whole DAXI compartment inside existing joint bay "STJI2" and the new oil tank pit A located aside	334 days 59 days	Wed 1/2/23 Wed 1/2/23	Sun 31/12/23 Fri 31/3/23		
481	existing joint bay "STJI2".					
482	Re-excavation of whole DAX2 compartment inside existing joint bay "STJI2". Backfilling of whole DAX2 compartment inside existing joint bay "STJI2" and the new oil tank pit B located aside	61 days 61 days	Tue 1/8/23 Wed 1/11/23	Sat 30/9/23 Sun 31/12/23	 	
483	existing joint bay "STJI2". Deferred works (External Work) Listed in PS 1.4.4	121 days	Thu 1/12/22	Fri 31/3/23		
484	Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area	62 days	Thu 1/12/22	Tue 31/1/23		
485	Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17	90 days	Sun 1/1/23	Fri 31/3/23	-	
486	and F18. Backfilling and road-reinstatement of 275kV cable trenches	90 days	Sun 1/1/23	Fri 31/3/23		
487 488	All Remaining work ready for OP inspection	0 days	Tue 28/2/23	Tue 28/2/23		
489	STATUTORY SUBMISSION, INSPECTION & APPROVAL WSD Statutory Submission, Inspection and Approval WWO Part I to III Submission / Approval	560 days 256 days	Tue 16/11/21 Tue 16/11/21	Mon 29/5/23 Fri 29/7/22	1	
490 491	WSD : Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage) WSD: Vetting Form WWO 046 Part I and II Submission	0 days 90 days	Tue 16/11/21 Wed 17/11/21	Tue 16/11/21 Mon 14/2/22	orm WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)	–WSD: Vetting Form WWO 04
492	WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building	0 days	Tue 15/2/22	Tue 15/2/22		WSD: Issued of Form WW
493 494	WSD: Prepare for 1st Amendment for Plumbing Plan WSD: Submit to WSD 1st Amendment for Plumbing Plan	60 days 0 days	Tue 15/2/22 Fri 15/4/22	Fri 15/4/22 Fri 15/4/22		7
495 496	WSD: Vetting of Plumbing Plan by WSD WSD: 1st Approval for Plumbing Plan by WSD	60 days 0 days	Sat 16/4/22 Tue 14/6/22	Tue 14/6/22 Tue 14/6/22		
497	WSD: Prepare and Submit for Final Amendment for Plumbing Plan	45 days	Wed 15/6/22	Fri 29/7/22		
498 499	WSD: Vetting and Final Approval for Plumbing Plan by WSD WSD Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission /	0 days 33 days	Fri 29/7/22 Fri 29/7/22	Fri 29/7/22 Wed 31/8/22		
500	Approval WSD: Form WWO 046 Part IV Submission (FS)	0 days	Fri 29/7/22	Fri 29/7/22		
501	WSD: WSD Recieved Form WWO046 Part IV and arrange for inspection (FS)	7 days	Sat 30/7/22	Fri 5/8/22		
502 503	WSD: WWO 046 Part V Endorsement by WSD (FS)	7 days 12 days	Sat 6/8/22 Sat 13/8/22	Fri 12/8/22 Wed 24/8/22		
504 505	WSD: WSD Processing Water Supply Connection Certificate (FS) WSD: Issue by WSD Water Supply Connection Certificate (FS)	7 days 0 days?	Thu 25/8/22 Wed 31/8/22	Wed 31/8/22 Wed 31/8/22		
506	WSD Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission /	60 days	Fri 19/8/22	Tue 18/10/22		
507	Approval WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 19/8/22	Fri 19/8/22	 	
508 509	WSD: WSD Acknowledge Form WWO 046 WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	6 days 12 days	Sat 20/8/22 Fri 26/8/22	Thu 25/8/22 Tue 6/9/22		
510	WSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush)	6 days	Wed 7/9/22	Mon 12/9/22		
511 512		12 days 12 days	Tue 13/9/22 Sun 25/9/22	Sat 24/9/22 Thu 6/10/22		
513 514		6 days 0 days	Fri 7/10/22 Wed 12/10/22	Wed 12/10/22 Wed 12/10/22		
515	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	6 days	Thu 13/10/22	Tue 18/10/22		
516 517		0 days 45 days	Tue 18/10/22 Sat 26/3/22	Tue 18/10/22 Mon 9/5/22		
518 519	EMSD: Submission of Lift Form LE5 to EMSD	12 days 5 days	Sat 26/3/22 Thu 7/4/22	Wed 6/4/22 Mon 11/4/22	-	
520 521	EMSD: EMSD Inspection to Lift Installation	14 days	Tue 12/4/22	Mon 25/4/22		
522		14 days 0 days	Tue 26/4/22 Mon 9/5/22	Mon 9/5/22 Mon 9/5/22		
523 524		120 days 7 days	Thu 30/6/22 Thu 30/6/22	Thu 27/10/22 Wed 6/7/22		
525	TX Room: Give Access to Transformer Room for HKE Contractor	0 days	Wed 6/7/22	Wed 6/7/22		
526 527	TX Room: Move-IN HKE Transformer Equipments TX Room: Install HKE Transformer, MEP Works & Testing	5 days 90 days	Thu 7/7/22 Tue 12/7/22	Mon 11/7/22 Sun 9/10/22		
528 529	TX Room: HKE Power Energization / Inspection	6 days 12 days	Mon 10/10/22 Sun 16/10/22	Sat 15/10/22 Thu 27/10/22		
530	TX Room: HKE Power-ON Date	0 days 65 days	Thu 27/10/22 Sun 2/10/22	Thu 27/10/22 Mon 5/12/22		
532	DSD: CCTV Survey Report on Completed Drainage	30 days	Sun 2/10/22	Mon 31/10/22		
533 534		7 days 14 days	Tue 1/11/22 Tue 8/11/22	Mon 7/11/22 Mon 21/11/22	-	
535 536	DSD: Preparation of Drainage Connection Completion Memo by DSD	14 days	Tue 22/11/22 Mon 5/12/22	Mon 5/12/22 Mon 5/12/22	-	
537	EPD Submission, Inspection and Approval	0 days 60 days	Thu 30/6/22	Mon 5/12/22 Mon 29/8/22		
538 539	EPD: License Application to EPD under APCO (Cap 311) for Generator Sets EPD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets	0 days 60 days	Thu 30/6/22 Fri 1/7/22	Thu 30/6/22 Mon 29/8/22		
540	EPD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	0 days	Mon 29/8/22	Mon 29/8/22		
541 542	FSD VAC Statutory Submission, Inspection and Approval Preparation of FSD VAC Drawings and Submission to HEC	150 days 60 days	Wed 20/7/22 Wed 20/7/22	Fri 16/12/22 Sat 17/9/22		
543 544		30 days 30 days	Sun 18/9/22 Tue 18/10/22	Mon 17/10/22 Wed 16/11/22		
545	FSD: Review and Approval	30 days	Thu 17/11/22	Fri 16/12/22		
546 547	FSD Statutory Submission, Inspection and Approval Testing and Commissioning (Individual System - FSI Related)	91 days 45 days	Tue 28/2/23 Tue 28/2/23	Mon 29/5/23 Thu 13/4/23		
548 549	FSD: All Sections FS Ingration Test by NSC_BS FSD: Completion of FS Integration Test by NSC_BS for FS314/501	15 days 0 days	Fri 14/4/23 Fri 28/4/23	Fri 28/4/23 Fri 28/4/23	-	
550 551	FSD: Submit Form 213/314 & Form 501 Request for Inspection	0 days	Fri 28/4/23	Fri 28/4/23		
552	FSD: FSD Makes Arrangement for Inspection FSD: FSD Inspection	7 days 12 days	Sat 29/4/23 Sat 6/5/23	Fri 5/5/23 Wed 17/5/23		
553 554	FSD: Completion of FS Inspection FSD: FSD Processing FS Certicate Form 172	0 days 12 days	Wed 17/5/23 Thu 18/5/23	Wed 17/5/23 Mon 29/5/23		
555	FSD: Issue of Fire Services FS Certificate Form 172	0 days	Mon 29/5/23	Mon 29/5/23		
557	PRACTICAL COMPLETION BD Inspection	216 days 97 days	Tue 30/5/23 Tue 30/5/23	Sun 31/12/23 Sun 3/9/23		
558 559	BD: Application Form BA13 for OP Application	21 days	Tue 30/5/23 Tue 20/6/23	Mon 19/6/23 Tue 4/7/23		
560	BD: Reinspection date with defects and rectification works	15 days 60 days	Wed 5/7/23	Sat 2/9/23		
561 562	BD: Obtain Occupation Permit (OP) from BD As-Built Drawings & Handover Documentation	1 day 120 days	Sun 3/9/23 Wed 14/6/23	Sun 3/9/23 Wed 11/10/23		
563	Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Wed 14/6/23	Fri 28/7/23		
564 565	As-Built Drawings & Handover Documentation - Revision by MC	45 days 30 days	Sat 29/7/23 Tue 12/9/23	Mon 11/9/23 Wed 11/10/23		
566 567	Revised As-Built Drawings & Handover Documentation - Final Submission	0 days 119 days	Wed 11/10/23 Mon 4/9/23	Wed 11/10/23 Sun 31/12/23		
568	1st Client Inspection for Review and Comments	30 days	Mon 4/9/23	Tue 3/10/23		
569 570	2nd Client Inspection	60 days 14 days	Wed 4/10/23 Sun 3/12/23	Sat 2/12/23 Sat 16/12/23		
571 572	Minor Defects Rectification Works and Final Inspection	15 days	Sun 17/12/23	Sun 31/12/23		
_	- HAVITOAL VOIII LETIVIT	0 days	Sun 31/12/23	Sun 31/12/23	1	

PaulY

Task Split Milestone ♦

Summary -





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TAIHEI DENGYO KAISHA.LTD. 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 2021年 第2四半期 2021年 第3四半期 2021年 第4四半期 2023年 第1四半期 2022年 第1四半期 2022年 第2四半期 2022年 第3四半期 2022年 第3四半期 2023年 第1四半期 2023年 第2四半期 2023年 第2四半期 2023年 第2四半期 2023年 第2四半期 2023年 第2四半期 2023年 第3四半期 2023年 第3四半期 2023年 第1四半期 2023年 第1四半期 2023年 第3四半期 2023年 第3四半期 2023年 第1四半期 2023年 第1四半期 2023年 第3四半期 2023年 第3四半期 2023年 第3四半期 2023年 第3四半期 2023年 第3四半期 2023年 第3回半期 2023年 2021年 第2四半期 Ø Key Date Kev Date 527日 21/10/01(金) 23/06/07(水) 2 H/O HRSG Foundation 1日 21/10/01(金) 21/10/01(金) H/O HRSG Foundation → 10/01 H/O OHC Installation 18 21/11/01(月) 21/11/01(月) 3 H/O OHC Installation → 11/01 H/O Condenser foundation 21/12/15 (7k) 21/12/15 (7k) 1日 H/O Condenser foundation → 12/15 H/O Aux. equipment foundation of HRSG north side 21/11/15(月) 21/11/15(月) H/O Aux. equipment foundation of HRSG north side < 11/15 H/O GT Exhaust duct foundation (Assumed) 22/02/01 (火) 22/02/01 (火) 1日 H/O GT Exhaust duct foundation (Assumed) ◆ 02/01 H/O MSB East side (Assumed) 22/02/01 (火) 22/02/01 (火) H/O MSB East side (Assumed) → 02/01 8 🏢 MSB Full access (Except P/T foundation) 1日 22/01/15(土) 22/01/15(土) MSB Full access (Except P/T foundation)→ 01/15 H/O Foundation around CCW-Cooler 22/01/15(土) 22/01/15(土) H/O Foundation around CCW−Cooler ◆ 01/15 H/O Foundation around Transformer 18 22/03/10(木) 22/03/10(木) H/O Foundation around Transformer • 03/10 11 | | H/O Foundation of Powertrain 22/04/15(金) 22/04/15(金) 18 H/O Foundation of Powertrain → 04/15 Delivery date of Powertrains (GT,GEN,ST,GEN Tx) 22/04/15(金) 22/04/20(水) 5日 12 Delivery date of Powertrains (GT.GEN.ST.GEN Tx) ◆ 04/20 13 O/B GT & GEN 1日 22/07/15(金) 22/07/15(金) O/B GT & GEN → 07/15 22/11/15(火) 22/11/15(火) 14 Power Receiving 18 Power Receiving 11/15 15 H/O Foundation of No5 Intake area 18 22/09/30(金) 22/09/30(金) H/O Foundation of No5 Intake area • 09/30 Hydrostatic test ◆ 12/03 16 | | | Hydrostatic test 10日 22/12/03 (±) 22/12/14 (7k) 17 Beginning Closed cooling water system flushing (Target) 1日 22/12/14 (7k) 22/12/14 (7k) 18SS-30 FI Beginning Closed cooling water system flushing (Target) 12/14 18 Receiving Lube Oil 18 23/01/18 (7k) 23/01/18 (7k) 208SS Receiving Lube Oil 01/18 Beginning CW system commissioning 1日 23/02/10(金) 23/02/10(金) 18SS+20 FI 19 Beginning CW system comm GT First Firing 05/08 20 GT First Firing 23/05/08(月) 23/05/08(月) 213 1日 Synchronization 1日 23/06/07 (水) 23/06/07 (水) 20FS+25日 Synchronization > 06/07 22 577日 21/10/01(金) 23/08/04(金) 23 HRSG 24 Make the condition for construction 21/10/01(金) 21/10/02(土) 2SS Make the condition for construction Center line marking 3日 21/10/01 (金) 21/10/04 (月) 24SS Center line marking 26 Chipping 15日 21/10/01(金) 21/10/18(月) Chipping 27 10日 21/10/05(火) 21/10/15(金) 26SS+3 ⊟ Packer setting Packer setting 28 Lav down Pipes under HRSG 10日 21/10/09 (土) 21/10/20 (水) 27SS+4日 Lav down Pipes under HRSG 9日 21/10/21(木) 21/10/30(土) 29 Short legs setting 28 Short legs setting 21/10/28(木) 21/11/01(月) 30 Prepare for installing Bottom casing 3日 31SF Prepare for installing Bottom casing 31 Lifting and installing Bottom casing 6日 21/11/01(月) 21/11/06(土) 29 Lifting and installing Bottom casing 32 Welding Short legs and Bottom casing 35 ⊟ 21/11/08(月) 21/12/17(金) Welding Short legs and Bottom casing 33 Setting and welding Brace gusset 35 FI 21/11/08(月) 21/12/17(金) 31 Setting and welding Brace gusset 34 Setting and welding SCR bottom frame 35 ⊟ 21/11/08(月) 21/12/17(金) 31 Setting and welding SCR bottom frame 35 Setting FL+2.5m floor structure 17 FI 21/11/08(月) 21/11/26(金) 31 Setting FL+2.5m floor structure Putting pipes on bottom casing 10日 21/11/27 (±) 21/12/08 (7k) 36 35 Putting pipes on bottom casing 37 HRSG Blow down tank 2 FI 21/10/27(水) 21/10/29(金) 38SF-10日 HRSG Blow down tank 38 KURE pipe rack (North on HRSG) 40 ⊟ 21/11/10(水) 21/12/25(土) 31FS+2日 KURE pipe rack (North on HRSG) 39 21/11/25(木) 21/12/14(火) 32SS+15日 Insulation and lagging on Bottom casing 17日 Insulation and lagging on Bottom casing 21/12/09 (木) 21/12/10 (金) 40 Unloading Side casing and Top Casing #1 2日 79FS+2日 Unloading Side casing and Top Casing #1 41 Suspend lifting work because of delivery cor 21/12/14(火) 21/12/17(金) 142SS-1E 42 | | Lifting and installing Side casing 42 ⊟ 22/01/01(土) 22/02/18(金) 94SS+20 ⊟ Lifting and installing Side casing 42SS+15日 Lifting and installing Top casing 43 Lifting and installing Top casing 40日 22/01/19 (水) 22/03/05 (土) 44 2日 22/02/03(木) 22/02/04(金) Lifting and installing SCR Lifting and installing SCR 45 22/03/14(月) 22/03/15(火) 101FS+10⊟ Lifting and installing AIG 2日 Lifting and installing AIG 46 Unloading Side casing and Top Casing #2 22/01/07(金) 22/01/07(金) 96SS-1日 18 Unloading Side casing and Top Casing #2 Installation of piping, header, support, EXP inside HRSG 40 E 47 22/01/25(火) 22/03/11(金) 42SS+20 ⊟ nstallation of piping, header, support, EXP insid<mark>e HRSG</mark>) 48 Lifting and installing HRSG Inlet duct 2 FI 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) 49 Setting FL+29m floor structure (The part of over hang) 55日 22/03/07(月) 22/05/09(月) 48FF+10 ⊟ Lifting Down comer piping (after pre-assembling) 50 Lifting Down comer piping (after pre-assembling) 8日 22/04/11(月) 22/04/19(火) 49SS+30 FI 51 Prepare Lifting Tube bundle (Around HRSG) 10 FI 22/04/28(木) 22/05/09(月) 49FS-10 ⊟ Prepare Lifting Tube bundle (Around HRSG) 52 Suspend outside work for transportation of GEN TX 2日 22/04/15(金) 22/04/16(土) 1255 Suspend outside work for transportation of GEN TX Prepare unloading Tube bundle (Storage area) 53 Prepare unloading Tube bundle (Storage area) 3日 22/04/28(木) 22/04/30(土) 48 54 Unloading Tube bundle #1 (3set) 22/05/02(月) 22/05/04(水) 53 Unloading Tube bundle #1 (3set) 55 Prepare installing Tube bundle #1 (3set) 3日 22/05/05(木) 22/05/07(土) 54 repare installing Tube bundle #1 (3set) 56 22/05/10 (火) 22/05/14 (土) 55,51 Lifting and installing Tube bundle #1 (3set) ifting and installing Tube bundle #1 (3set) 57 22/05/16(月) 22/05/20(金) Unloading Tube bundle #2 (12set) 5⊟ Unloading Tube bundle #2 (12set) 58 Prepare installing Tube bundle #2 (12set) 22/05/21(土) 22/05/24(火) Prepare installing Tupe bundle #2 (12set) Lifting and installing Tube bundle #2 (12set) 15日 22/05/25(水) 22/06/10(金) Lifting and installing Tube bundle #2 (12set) 22/05/21 (土) 22/06/28 (火) 56SS+10日 Setting FL+29m floor structure (Above tube bundle) g FL+29m floor structure (Above tube bundle) 60SS+10 FI 61 Lifting and setting HP-Drum 22/06/02(木) 22/06/02(木) Lifting and setting HP-Drum 62 Lifting and setting IP-Drum 22/06/23(木) 22/06/23(木) 59FS+10E Lifting and setting IP-Drum 63 Lifting and setting LP-Drum 22/07/06 (7k) 22/07/06 (7k) 62FS+10 ⊟ Lifting and setting LP-Drum 64 Lifting and installing HRSG Outlet duct 22/08/05(金) 22/08/06(土) 2 FI Lifting and installing HRSG Outlet duct Suspend outside work for transportation of GT & GEN 8日 65 22/07/13(水) 22/07/21(木) 186SS-2 E rk for transportation of GT & GEN 66 Adjusting HDR level (HP) 10 FI 22/07/07(木) 22/07/18(月) Adjusting HDR level (HP) 67 Adjusting HDR level (IP & LP) 15 ⊟ 22/07/19(火) 22/08/04(木) 66 Adjusting HDR level (IP & LP) Lifting Frame 7,9 and 8 68 Lifing Frame 7,9 and 8 25日 22/08/19(金) 22/09/16(金) 69 22/08/08(日) 22/08/18 (木) HRSG roof structure (main beam) 70 Setting roof structure (Including deferrable structure) 100日 22/08/08(月) 22/12/01(木) 69SS Setting roof structure (Including deferrable structure) Lifting and setting the silencer of HRSG 22/08/31(水) 22/09/05(月) 70SS+20日 71 5⊟ Lifting and setting the silencer of HRSG 22/11/02 (7k) 1250ton shift to lifting work of GT Inlet du 22/09/17(土) 73 Assembly accessory inside HRSG 22/11/28(月) 23/03/23(木) ssembly accessory inside HRSG 22/12/03 (土) 22/12/14 (水) Hydrostatic test of HRSG Excavation the foundation of UTAC (By Civil) 22/10/27(木) 22/12/01(木) 30 ⊟ dation of UTAC (By Civil) Urea to Ammonia conversion system 90 ⊟ 22/12/01(木) 23/03/15(水) Urea to Ammonia conversion system Installation the SCR catalyst 23/07/13(木) 23/08/04(金) 21FS+30日 20日 Installation the SCR catalyst

NOTE

79

1. The key date is subjected in the KOM held on 30th-Sep.

Assembly 1250ton C/C

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

10 FI

21/11/25(木) 21/12/06(月)

3.Considered the affection of KURE's schedule belows:

Assembly 1250ton C/C

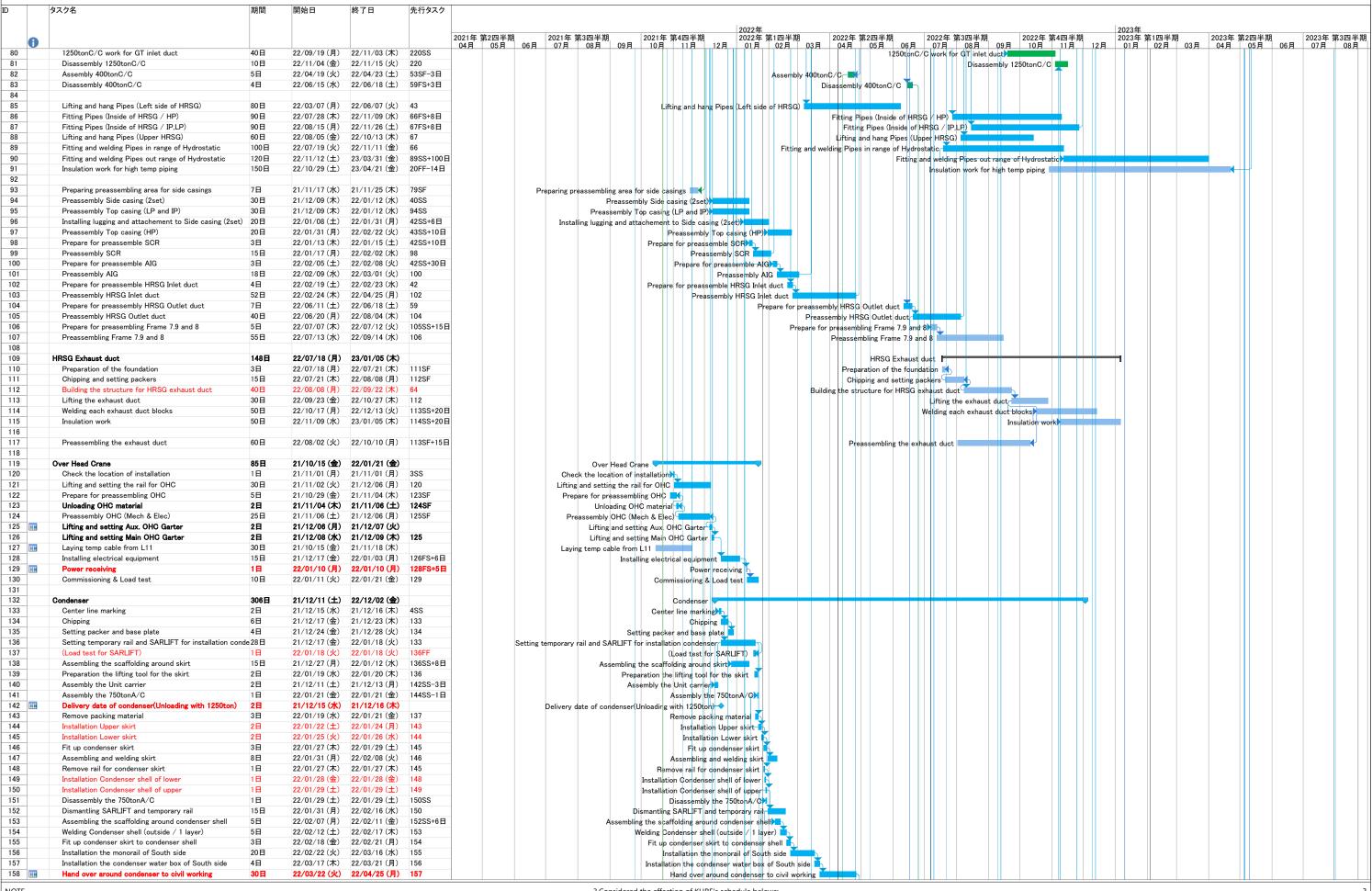
i) Because of delaying the side casing, installation Inlet duct is postponed.

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

20th-Oct-2021

Rev.5a

TAIHEI DENGYO KAISHA.LTD. Construction Schedule of Unit-12

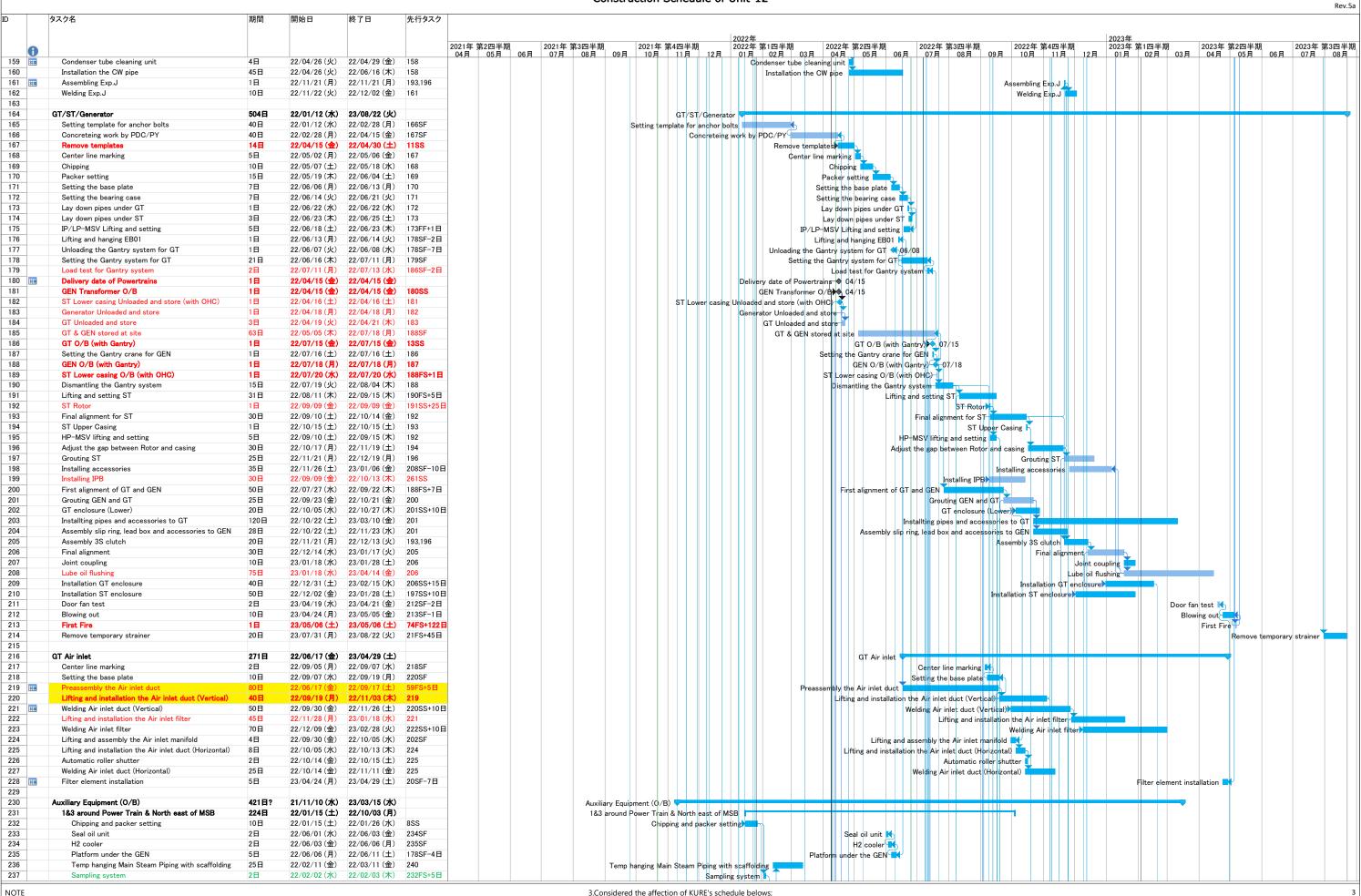


TAIHEI DENGYO KAISHA,LTD.

Construction Schedule of Unit-12

20th-Oct-2021

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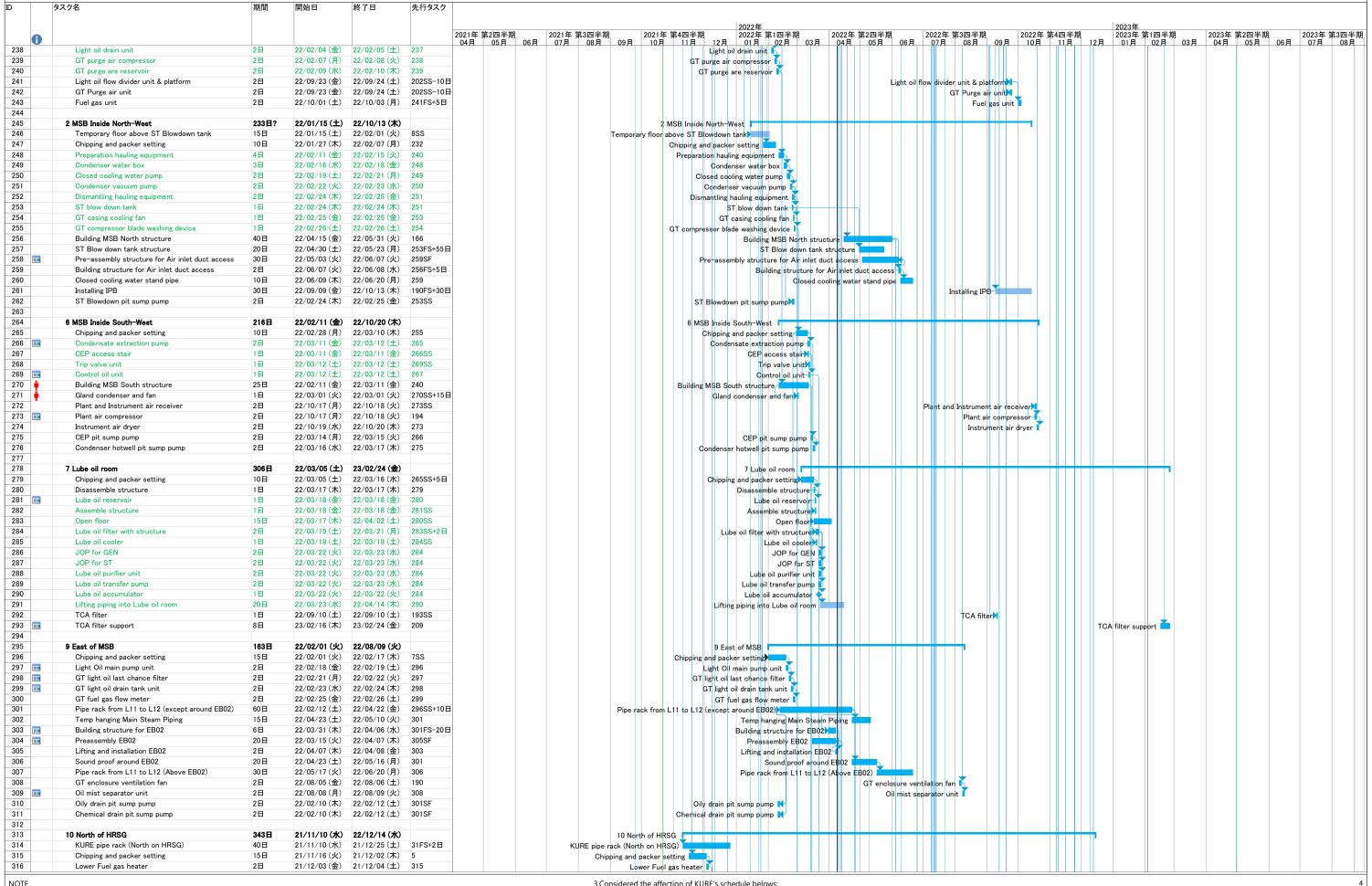
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TAIHEI DENGYO KAISHA.LTD. 20th-Oct-2021 Construction Schedule of Unit-12 Rev.5a

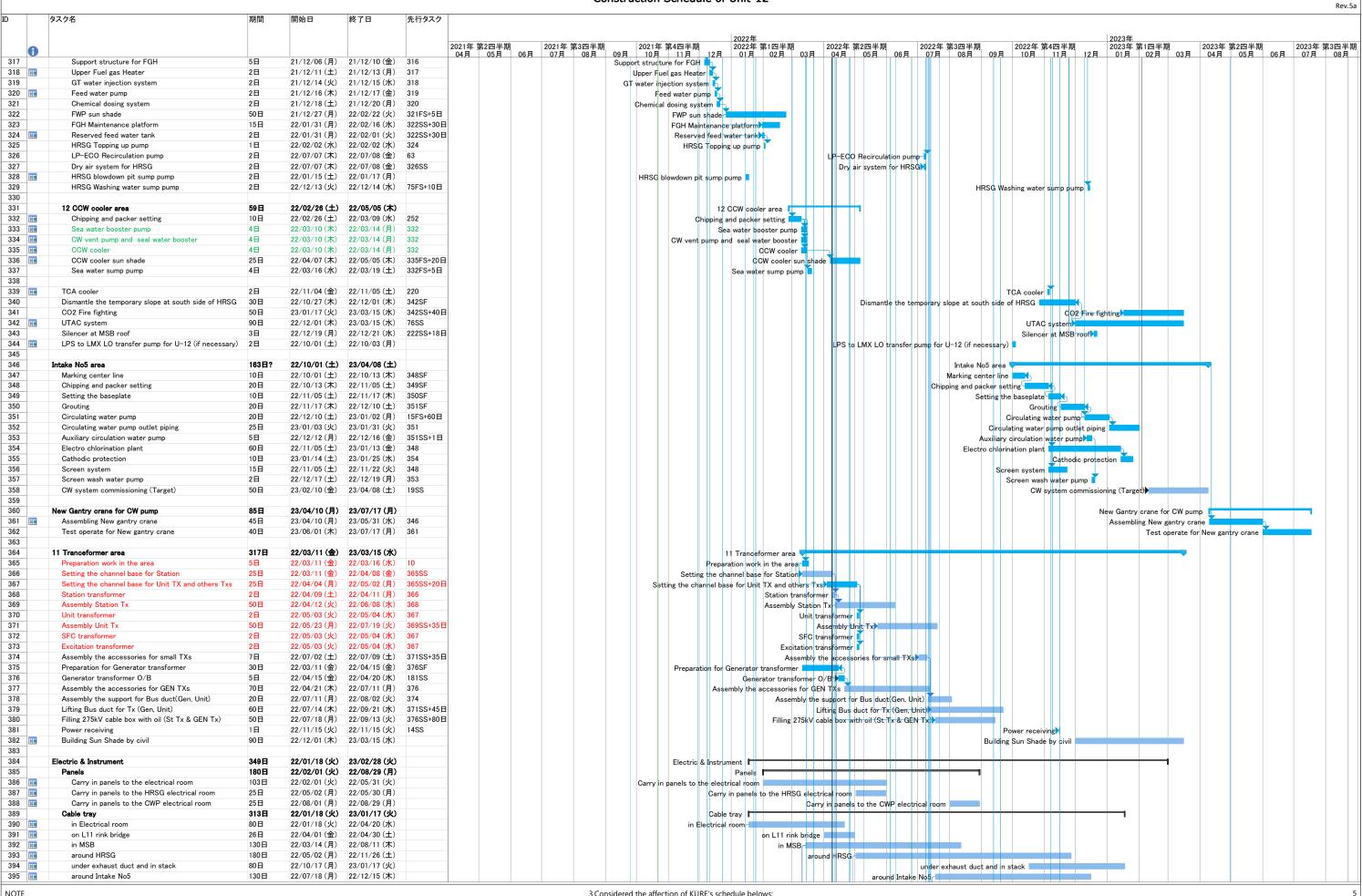


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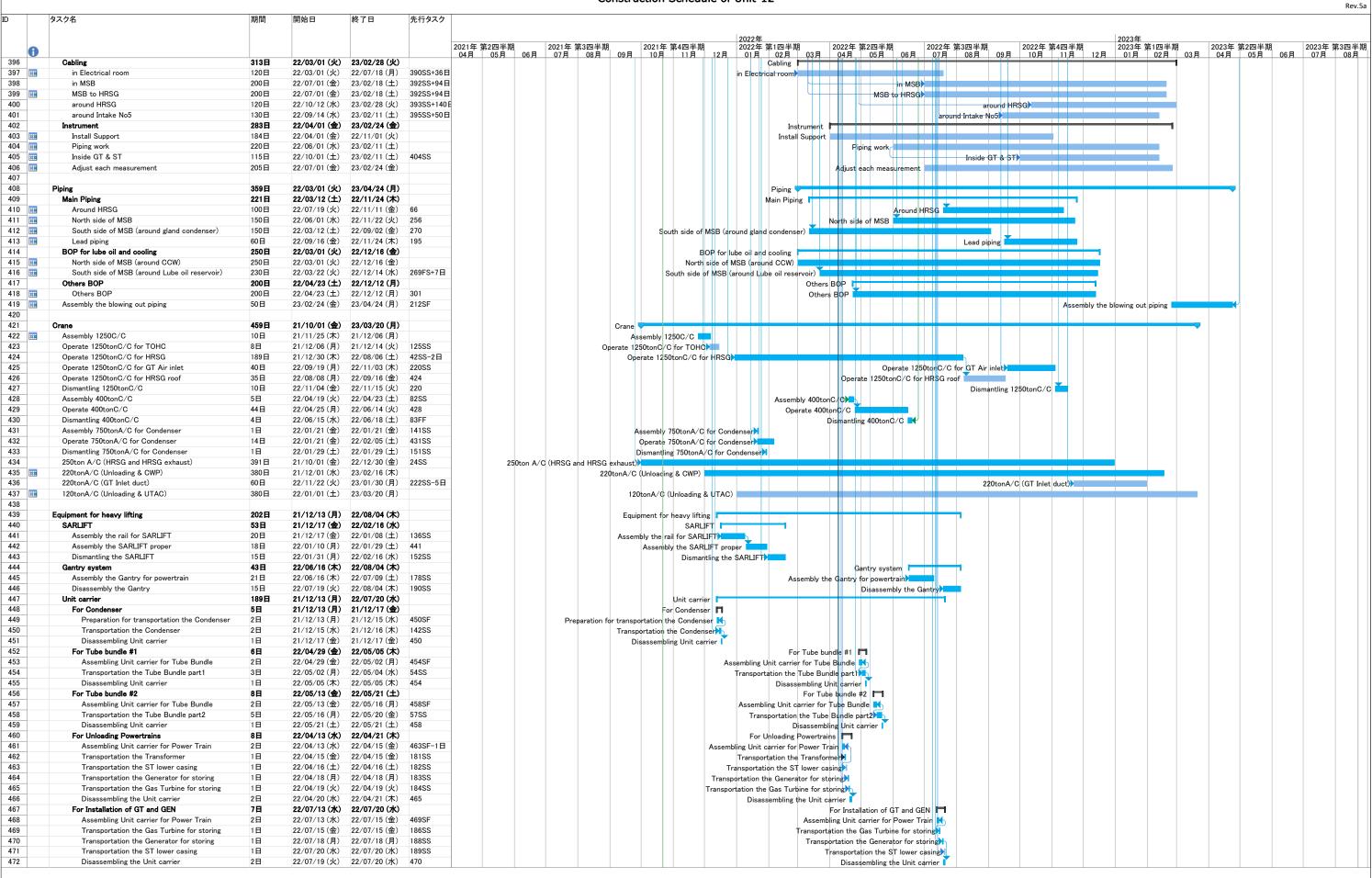
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Monthly Waste Flow Table for Nov 2021

Lamma Power Station Extension - Civil and Building Works for Unit L11

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2018, 2019, 2020 & 2021

MM.YYYY		Act	tual Quanti	ties of Inert (C&D Materia	lls Generated	Monthly		Actual Q	uantities of N	Ion-inert C&	D Materials	Generated	Monthly
	Exc	avated Mate	erials		Non	excavated M	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	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 '000L)	(in '000kg
Jul 2018	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 2018	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 2018	3160.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct 2018	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 2018	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	8.87
Dec 2018	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	10.67
Jan 2019	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 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.66	0.00	0.00	0.00	0.60	0.00
Mar 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.05	0.00	0.00	0.00	0.00	0.00
Apr 2019	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	19.09
May 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	59.75
Jun 2019	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	14.64
Jul 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66
Aug 2019	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 2019	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	27.31
Oct 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.109	0.00	0.00	4.76
Nov 2019	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	4.87
Dec 2019	0.00	0.00	0.00	0.00	0.00	10226.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.19
Jan 2020	0.00	0.00	0.00	0.00	0.00	7981.09	0.00	0.00	0.00	0.00	0.157	0.00	0.00	26.89
Feb 2020	0.00	0.00	0.00	0.00	0.00	8782.98	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Mar 2020	0.00	0.00	0.00	0.00	0.00	20252.12	0.00	0.00	0.00	0.00	0.000	0.00	0.00	78.96
Apr 2020	0.00	0.00	0.00	0.00	0.00	12976.86	0.00	0.00	8.30	0.00	0.000	0.00	0.00	68.75
May 2020	0.00	0.00	0.00	0.00	0.00	20203.01	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Jun 2020	0.00	0.00	0.00	0.00	0.00	28030.33	0.00	0.00	0.00	0.00	0.000	0.00	0.00	58.49
Jul 2020	0.00	0.00	0.00	0.00	0.00	12481.37	0.00	0.00	0.00	0.00	0.000	0.00	0.00	33.88
Aug 2020	0.00	0.00	0.00	0.00	0.00	11179.56	0.00	0.00	0.00	0.00	0.000	0.00	0.60	73.73
Sep 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.53	0.00	0.286	0.00	0.00	64.93
Oct 2020	0.00	0.00	0.00	0.00	0.00	10762.20	0.00	0.00	7.12	0.00	0.297	0.00	0.00	83.34
Nov 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.46	0.00	0.000	0.00	0.20	61.21
Dec 2020	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	59.98
Jan 2021				0.00		0.00		0.00	0.00			0.00		51.37
Feb 2021 Mar 2021	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	44.94 34.57
Mar 2021 Apr 2021	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	34.57
Apr 2021 May 2021	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	18.65
Jun 2021	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	10.76
Jun 2021 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	0.00	0.000		0.00	
Aug 2021 Sep 2021	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	24.19
Oct 2021	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	27.62
Nov 2021	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
NOV 2021	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
Total	3160.23	0.00	0.00	0.00	0.00	142875.75	0.00	0.00	74.83	0.00	0.849	0.00	2.00	1038.89
i u(a)	3100.23	0.00	0.00	0.00	0.00	1420/0./0	0.00	0.00	/4.83	0.00	0.849	0.00	2.00	1038.89

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					
146035.98 tonnes	75.68 tonnes	1038.89 tonnes	2000 Liters					

Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 146035.98 tonnes of inert C&D material were generated from the Project, of which 142375.75 Jonnes were reused in this and other contracts, and the remaining 3160.23 Inomes were desposed as public III for all Earlies's Sorialif scaling.

(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.

(1) metal, paper & plastic were collected by recycler

- (1) meta, spear a plassor were cosection by recycler

 (2) The performance larged of water 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 bottlets containers, plastic flows in from packaging material.

 (5) Broken concrete for recycling into aggregates.

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

Appendix K

Monthly Waste Flow Table for November 2021

Project: LAMMA POWER STATION EXTENSION – Unit 11 Complete Erection, Inspection, Testing & Commissioning of Power Block Facilities

Contractor: Taihei Dengyo Kaisha, Ltd.

Record by: Stephen Sin

Year of Record: 2019, 2020, 2021

MM.YYYY		Antun	Ougatition	of loost COD) Materials G	`aaaaaaa N	landhi.		Antunio	antition of	Non-inest C	&D Materials	Canadad	Manthly
IVIIVI. I I I I	Fire	avated Mate		or men Cal		xcavated M			Actual Q	uantities of	Non-men Ca	&D Materials	Generaled	ivioritrily
	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 2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dec 2019	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 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
Feb 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
Mar 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	3.35
Apr 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	11.61
May 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	12.39
Jun 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	13.03
Jul 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	16.32
Aug 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	2600	10.38
Sep 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	10.20
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	12.02
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	2400	26.18
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	15.38
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	21.65
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	10.40
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	17.43
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	2400	20.24
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	14.08
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	17.43
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	20.38
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	22.38
Sep 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.43	0.00	0.00	0.00	0.00	0.00	19.26
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	13.35
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	16.54
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.43	0.00	0.00	0.00	0.00	7400	324.00

Total Inert C&D Waste Materials	Non-inert C&D Waste Materials Non-inert C&D Materials						
Generated	C&D Materials Recycled	C&D Materials Recycled C&D Waste Disposed of at Landfill Che					
5.43 tonnes	0.00 tonnes	324.00 tonnes	7400 Liters				

		-
Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 5.43 tonnes of inert C&D materials from the Project, of which 0 tonnes were reused in this and other contracts, and the remaining 5.43 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.
Notes:		(1) metal, paper & plastic were collected by recycler (2) The performance target of waste recycling are specified in the Contract. (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site. (4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material. (5) Broken concrate 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 Nov 2021

Lamma Power Station Extension Civil and Building Works for Unit L12 Project:

Paul Y. Construction Company, Limited Contractor:

Record by: Ben Lam Year of Record: 2020 & 2021

MM.YYYY		Ac	tual Quant	ities of Inert (C&D Materia	s Generated	Monthly		Actual Q	uantities of N	Non-inert C&I	O Materials	Generated	Monthly
	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)	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)
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
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
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
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	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	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
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	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	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	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	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	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	34.17
									1					
									1					
-	1								1					
									1					
	1													
Total	0.00	0.00	64180.35	0.00	0.00	0.00	0.00	0.00	181.44	0.00	0.25	0.00	0.40	201.95

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					
64180.35 tonnes	181.69 tonnes	201.95 tonnes	400 Liters					

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64180.35 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil.
VVIICIC	(1)	were generated from the Project, of which 0.00 tonnes were enseed in this and other contracts, and the remaining 0.00 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
	(c)) 8080 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 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 Nov 2021

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

Paul Y. Construction Company, Limited Contractor:

Record by: Ben Lam Year of Record: 2020 & 2021

MM.YYYY	T	۸۰	tual Ouant	ition of Inart (20D Motorio	s Generated I	/onthly		A atual O	wantition of N	Non-inert C&I	Motoriala	Congreted	Monthly
IVIIVI. T T T				ities of mert					Actual G	uantities of r	von-inert C&t	Jivialeriais	Generaled	Monthly
	EXC	avated Mate	eriais		Non-	excavated Ma	ateriais							
	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 '000L)	(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
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
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
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
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
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	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	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	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
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
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
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	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	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
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.60	97.72

Total Inert C&D Waste N	Materials	Non-inert C&D Materials							
Generated		C&D Materials Recycled	&D Materials Recycled C&D Waste Disposed of at Landfill Chem						
0.00 to	0.00 tonnes		97.72 tonnes	600 Liters					

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, were generated from the Project, of which 0.00 tonnes were reused in this and other contracts, and the remaining
		0.00 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
	(c)) 0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
	(d)	Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.
otes:		(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 November 2021

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: 2021 Year of Record:

MM.YYYY	T	Actua	I Quantities	of Inert C&E) Materials (Senerated M	Ionthly		Actual Q	uantities of	Non-inert C	&D Materials	s Generated	Monthly
	Exc	avated Mate				xcavated M								
	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	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
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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	0.00

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	0.00 toppes	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 material				
		were generated from the Project, of which 0 tonnes were reused in this and other contracts, and the remaining				
	(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)	(d) Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.				
Notes:		(1) metal, paper & plastic were collected by recycler				
		(2) The performance target of waste recycling are specified in the Contractt.				
		(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.				
		(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.				
		(5) Broken concrete for recycling into aggregates.				
		(6) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.				

Appendix K