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



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

February 2022

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



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

Report Title	Lamma Power Station Extension – Unit L11 & L12 Monthly EM&A Report (February 2022)
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EXECUTIVE SUMMARY

This is the 142nd monthly Environmental Monitoring and Audit (EM&A) report for the Project "Construction of Lamma Power Station Extension" prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air quality and noise for the said project in February 2022.

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	Pipe connection works at receiving pit and light oil tank external works
Unit L11 Mechanical Erection	Testing and commissioning
Unit L11 Electrical, Instrumentation & Control Erection	Testing and commissioning
Unit L12 Civil and Building Works	Construction of Main Station Building, construction of No. 5 Chimney, construction of L12 GRS equipment room, 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	To		Issuance
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
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
Construction Noise Permit	GW-RS1011-21	01/01/22	30/06/22	Contractor	20/12/21
Construction Noise Permit	GW-RS0077-22	02/02/22	28/07/22	Contractor	31/01/22
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
Waste Disposal Billing Account	Account No.: 7041942	21/10/21	-	Contractor	21/10/21

Implementation Status of Environmental Mitigation Measures

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

Environmental Complaints

No complaint 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 February 2022.

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, pipe connection works at receiving pit and light oil tank external works. 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, construction of Main Station Building, construction of No.5 Chimney, construction of L12 GRS equipment room, 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 L1	1 Civil and Building	Works
1.	Pipe connection works at receiving pit and light oil tank external works	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 L1	l Mechanical Erection	on
2.	Testing and commissioning	Air
		Dust suppression measures implemented according to the EMP.

Item	Construction Activities	8	
Unit I.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.	
Unit L12	2 Civil and Building Construction of	Works Air	
	Main Station Building Construction of No.5 Chimney Construction of L12 GRS Equipment Room	 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. 	
	ACB Construction of superstructure No.5 C.W. Culvert installation of pipe and backfilling works	Noise - Works conducted during restricted hours should comply with the valid CNP. - Noise emission label was provided for air compressor. Wastewater - Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. The frequency would be in weekly basis depends on the volume of sediment accumulated in order to maintain sufficient volume for wastewater treatment.	

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	l 2 Mechanical Erectio	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	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.

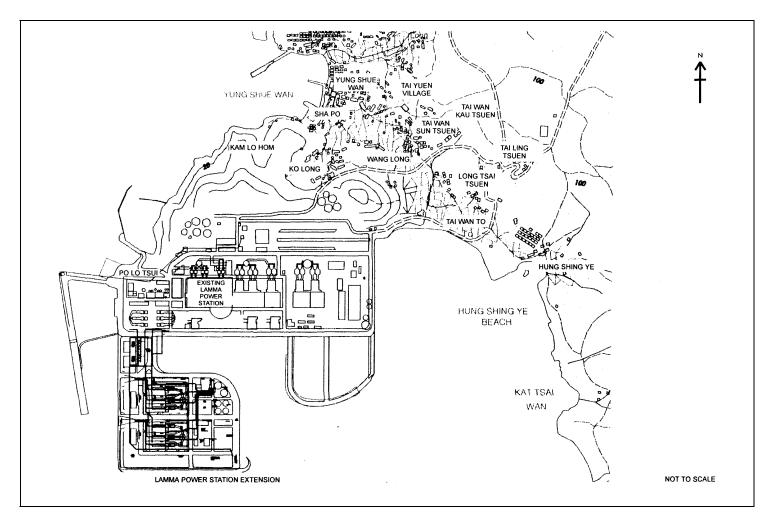


Figure 1.1 Layout of Work Site

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
AWII	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
AlVIZ	24-hour TSP	24	Once every 6 days
A N 12	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:
 - o Operation Mode;
 - o Frequency of the tapered element;
 - o Main flow;
 - o Bypass flow.

Maintenance & Calibration

 The monitoring equipment and their accessories are maintained in good working conditions. • Monitoring equipment is calibrated at monthly intervals. Calibration details are shown in Appendix F.

2.6 Results and Observations

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

1-hour TSP

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

24-hour TSP

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

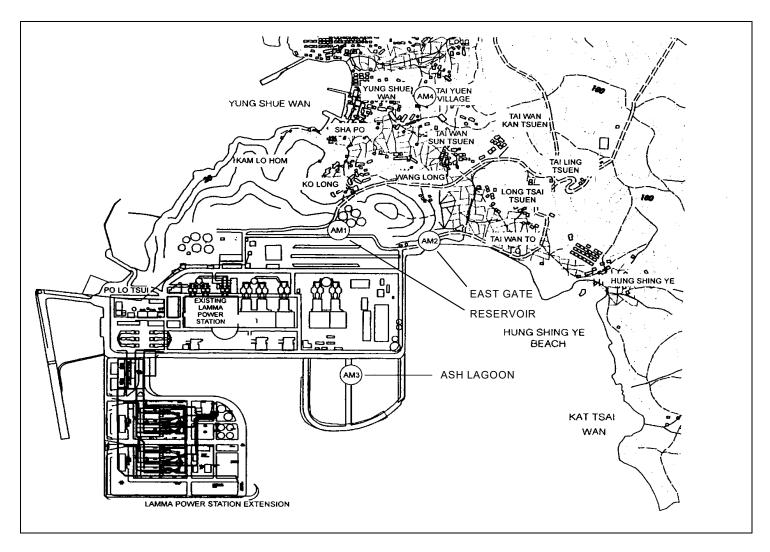


Figure 2.1 Location of Air Quality Monitoring Stations

3. NOISE

3.1 Monitoring Requirements

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

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

3.2 Monitoring Locations

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

3.3 Monitoring Equipment

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

Table 3.1 Noise Monitoring Equipment

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

3.4 Monitoring Parameters, Frequency and Duration

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

Table 3.2 Noise Monitoring Duration and Parameter

Lo	ocation	Time Period	Frequency	Parameter	
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	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.

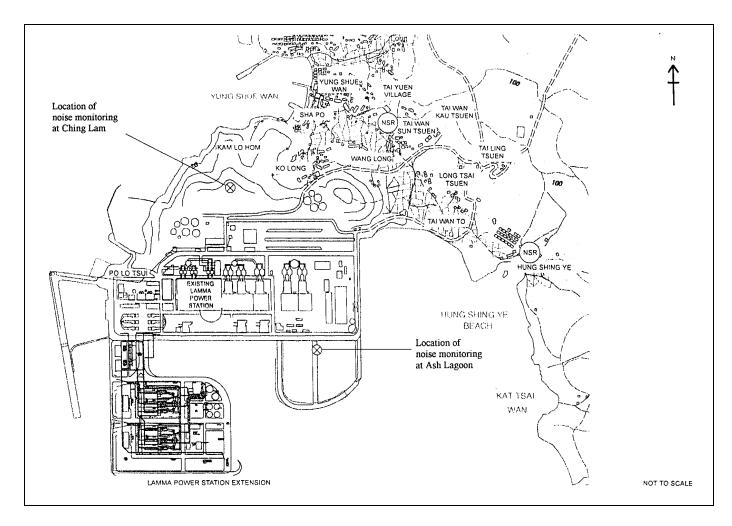


Figure 3.1 Location of Noise Monitoring Stations

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)	01/02/2022- 28/02/2022	0	0	
2	Ambient TSP (1-hour)	01/02/2022- 28/02/2022	0	0	
Noise					
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/02/2022- 28/02/2022	0	0	

4.3 Waste Management

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

Inert C&D material and non-inert C&D material disposed of in February 2022 are shown in Table 4.2.

Table 4.2 Estimated Amounts of Waste in February 2022

	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 T	Connes	0 Tonnes	63.1 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-RS0600-21	08/08/21	07/02/22	Civil and Building Works for Unit L12. Operation of PME during restricted hours	Superseded by GW-RS0077- 22
Construction Noise Permit	GW-RS0790-21	23/10/21	21/04/22	Construction site of Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS1011-21	01/01/22	30/06/22	Power Block Facilities works for Unit L11. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0077-22	02/02/22	28/07/22	Civil and Building Works for 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

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Description	Permit No.	Valid	Period	Highlights	Status
		From	To		
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Civil and Building Works	Valid
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	E&M Equipment Installation and Maintenance	Valid
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
Waste Disposal Billing Account	Account No.: 7041942	21/10/21	-	E&M Erection of Power Block Facilities – L12	Valid

Notes: #, ## and ### - Water quality monitoring was carried out in February 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 February 2022, no complaint against the construction activities was received.

Table 4.4 Environmental Complaints Received in February 2022

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

Table 4.5 Outstanding Environmental Complaints Carried Over

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

5. FUTURE KEY ISSUES

5.1 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

Unit L11 Civil and Building Works

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

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.

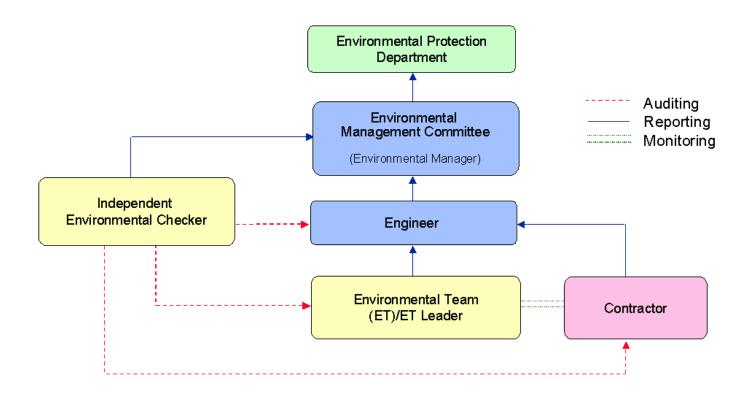


Figure A.1 Organisation of EM&A Programme at Construction Phase

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 (February 2022 to May 2022)

24hr TSP Monitoring	1hr TSP Monitoring
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
2/March/2022	2/March/2022 1500hr to 1800hr
8/March/2022	8/March/2022 1500hr to 1800hr
14/March/2022	14/March/2022 1500hr to 1800hr
20/March/2022	20/March/2022 1500hr to 1800hr
26/March/2022	26/March/2022 1500hr to 1800hr
1/April/2022	1/April/2022 1500hr to 1800hr
7/April/2022	7/April/2022 1500hr to 1800hr
13/April/2022	13/April/2022 1500hr to 1800hr
19/April/2022	19/April/2022 1500hr to 1800hr
25/April/2022	25/April/2022 1500hr to 1800hr
1/May/2022	1/May/2022 1500hr to 1800hr
7/May/2022	7/May/2022 1500hr to 1800hr
13/May/2022	13/May/2022 1500hr to 1800hr
19/May/2022	19/May/2022 1500hr to 1800hr
25/May/2022	25/May/2022 1500hr to 1800hr
31/May/2022	31/May/2022 1500hr to 1800hr

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: February 2022

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.	
6/2/2022	38	29	28	21	38.8	70	75	
12/2/2022	23	18	21	19	16.4	40	83	
18/2/2022	23	22	17	18	42.9	70	84	
24/2/2022	30	46	24	10	17.3	10	72	

1 hour TSP Measurement:-

		TSP concentration (µg/m³)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
6/2/2022	15:00 - 15:59	32	24	28		
6/2/2022	16:00 - 16:59	47	32	31		
	17:00 - 17:59	52	41	39		
10/0/000	15:00 - 15:59	21	16	23		
12/2/2022	16:00 - 16:59	19	17	18		
	17:00 - 17:59	20	17	18		
	15:00 - 15:59	16	22	16		
18/2/2022	16:00 - 16:59	19	19	16		
	17:00 - 17:59	23	21	17		
24/2/2022	15:00 - 15:59	39	67	26		
	16:00 - 16:59	26	44	25		
	17:00 - 17:59	24	22	24		

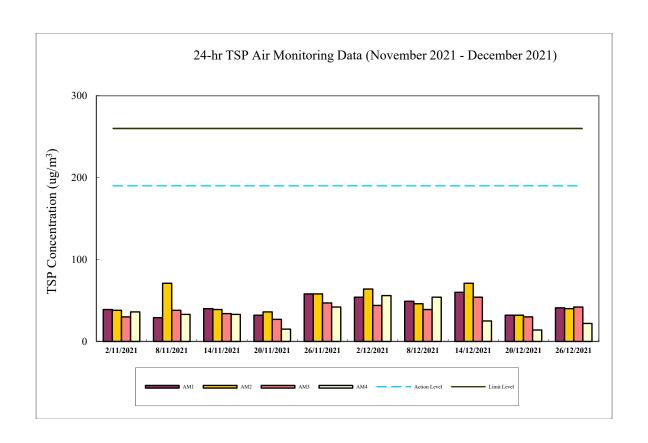
1-hr TSP 24-hr TSP (μg/m³) (μg/m³) 340 190 500 260

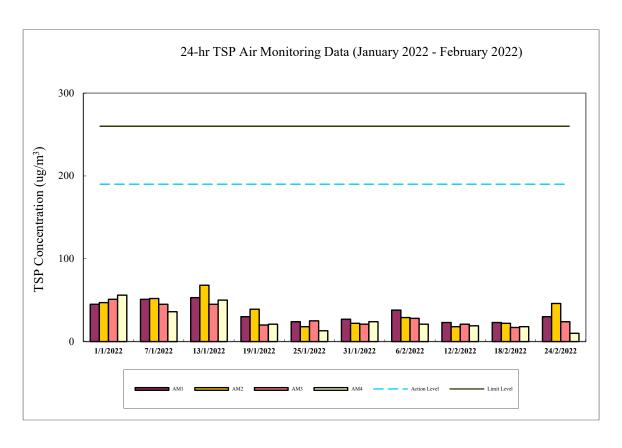
Limit Level 500 20 Calibration: Calibration details are shown in appendix F.

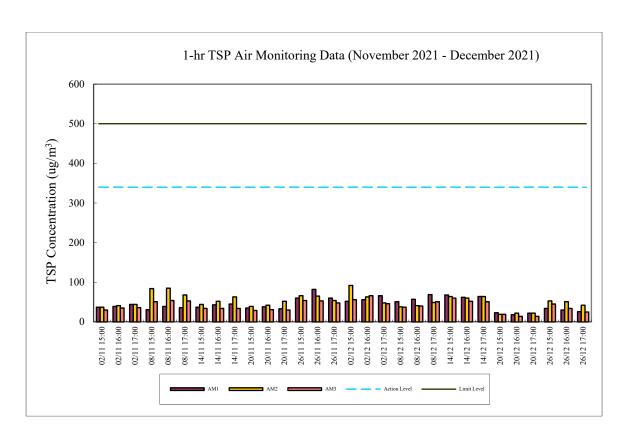
Equipment used:

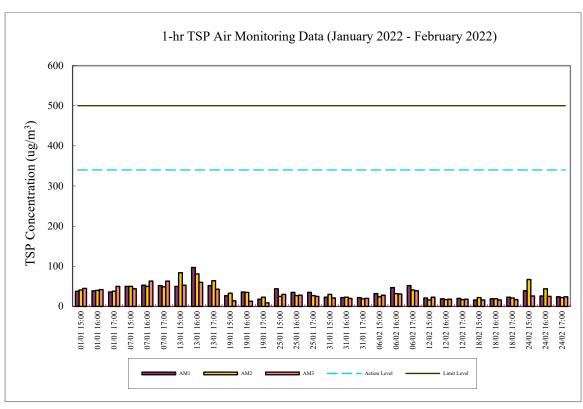
Action Level

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 February 2022

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)

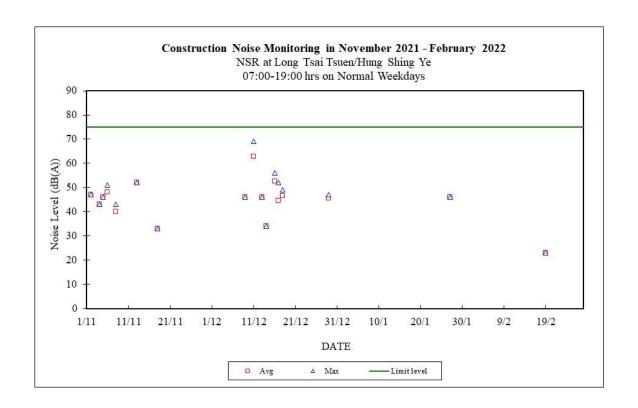
B&K 4231 calibrator (21/10/2021)

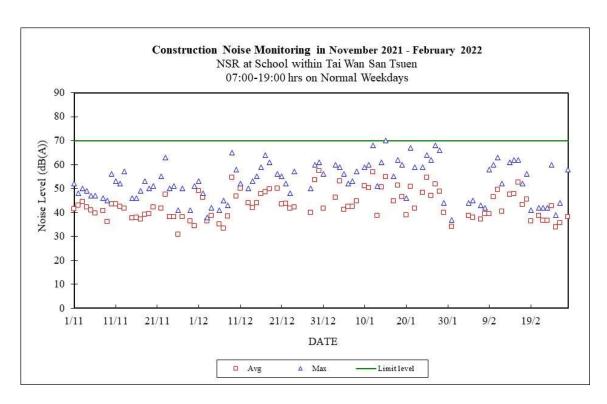
Date	Time	Calculated Noise Level at NSR at Long Tsai Tsuen/Hung Shing Ye (dB(A))		Limit Noise Level (dB(A))	Calculated Noise Level at NSR at the school within Tai Wan San Tsuen (dB(A))		Limit Noise Level (dB(A))
		Max	Avg		Max	Avg	
01/02/2022	07:00-23:00	53	45	60	49	35	60
01/02/2022	23:00-07:00	40	35	45	41	36	45
02/02/2022	07:00-23:00	53	43	60	48	34	60
02/02/2022	23:00-07:00			45	37	34	45
03/02/2022	07:00-23:00	51	43	60	46	36	60
03/02/2022	23:00-07:00	44	39	45	43	36	45
04/02/2022	07:00-19:00			75	44	39	70
04/02/2022	19:00-23:00			60	39	35	60
04/02/2022	23:00-07:00	45	37	45	43	38	45
05/02/2022	07:00-19:00			75	45	38	70
05/02/2022	19:00-23:00			60	41	37	60
05/02/2022	23:00-07:00			45	44	40	45
06/02/2022	07:00-23:00			60	44	38	60
06/02/2022	23:00-07:00	45	39	45	45	38	4.5
07/02/2022	07:00-19:00			75	43	37	70
07/02/2022	19:00-23:00			60	39	37	60
07/02/2022	23:00-07:00	44	4.3	45	44	40	45
08/02/2022	07:00-19:00			75	42	39	70
08/02/2022	19:00-23:00			60	50	40	60
08/02/2022	23:00-07:00	42	35	45	44	38	45
09/02/2022	07:00-19:00			75	58	39	70
09/02/2022	19:00-23:00			60	47	38	60
09/02/2022	23:00-07:00	38	35	45	44	38	45
10/02/2022	07:00-19:00			75	60	47	70
10/02/2022	19:00-23:00			60	44	40	60
10/02/2022	23:00-07:00	43	37	45	44	40	45
11/02/2022	07:00-19:00			75	63	50	70
11/02/2022	19:00-23:00			60	41	33	60
11/02/2022	23:00-07:00			45	42	38	45
12/02/2022	07:00-19:00			75	52	40	70
12/02/2022	19:00-23:00			60	44	41	60
12/02/2022	23:00-23:00			45	41	39	45
13/02/2022	07:00-23:00			60	43	39	60
13/02/2022	23:00-07:00	44	41	45	45	41	45
13/02/2022	07:00-19:00	44	41	75	61	41	70
14/02/2022	19:00-23:00			60	39	36	60
14/02/2022	19:00-23:00			bυ	39	36	υď

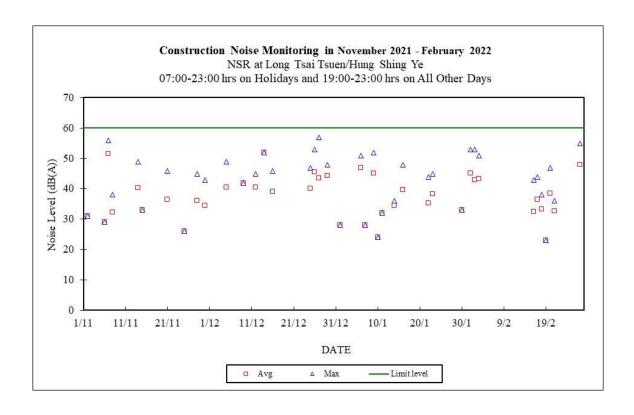
14/02/2022	23:00-07:00	40	35	45	44	38	45
15/02/2022	07:00-19:00			75	62	48	70
15/02/2022	19:00-23:00			60	40	35	60
15/02/2022	23:00-07:00	38	33	45	43	38	45
16/02/2022	07:00-19:00			75	62	52	70
16/02/2022	19:00-23:00	43	33	60	46	41	60
16/02/2022	23:00-07:00	43	39	45	43	37	45
17/02/2022	07:00-19:00			75	52	43	70
17/02/2022	19:00-23:00	4 4	37	60	45	37	60
17/02/2022	23:00-07:00	45	40	45	44	37	45
18/02/2022	07:00-19:00			75	56	46	70
18/02/2022	19:00-23:00	38	33	60	44	39	60
18/02/2022	23:00-07:00	43	38	45	42	35	45
19/02/2022	07:00-19:00	23	23	75	41	36	70
19/02/2022	19:00-23:00	23	23	60	42	36	60
19/02/2022	23:00-07:00	37	35	45	44	40	45
20/02/2022	07:00-23:00	47	39	60	45	37	60
20/02/2022	23:00-07:00	45	40	45	44	39	45
21/02/2022	07:00-19:00			75	42	39	70
21/02/2022	19:00-23:00	36	33	60	43	38	60
21/02/2022	23:00-07:00	43	36	45	44	38	45
22/02/2022	07:00-19:00			75	42	37	70
22/02/2022	19:00-23:00			60	42	35	60
22/02/2022	23:00-07:00	33	33	45	45	41	45
23/02/2022	07:00-19:00			75	42	37	70
23/02/2022	19:00-23:00			60	44	39	60
23/02/2022	23:00-07:00	45	41	45	42	35	45
24/02/2022	07:00-19:00			75	60	43	70
24/02/2022	19:00-23:00			60	38	30	60
24/02/2022	23:00-07:00	42	39	45	44	38	45
25/02/2022	07:00-19:00			75	39	34	70
25/02/2022	19:00-23:00			60	35	33	60
25/02/2022	23:00-07:00	37	34	45	44	39	45
26/02/2022	07:00-19:00			75	44	36	70
26/02/2022	19:00-23:00			60	43	41	60
26/02/2022	23:00-07:00			45	45	41	45
27/02/2022	07:00-23:00	55	48	60	43	35	60
27/02/2022	23:00-07:00	37	35	45	43	38	45
28/02/2022	07:00-19:00			75	58	38	70
28/02/2022	19:00-23:00			60	50	39	60
28/02/2022	23:00-07:00	41	35	45	41	34	45

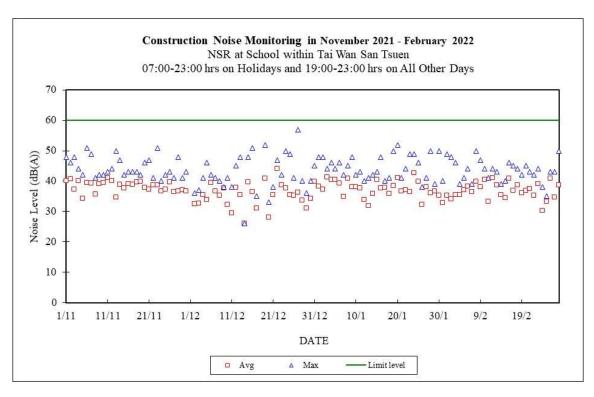
Note:

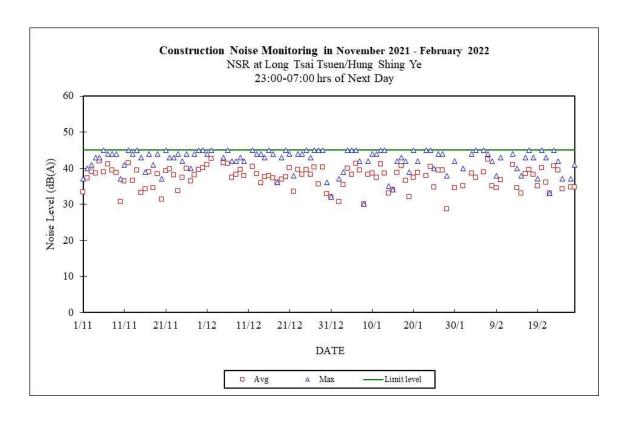
- a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.
- b. Continuous noise monitoring was also carried out at holidays & evening-time (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time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

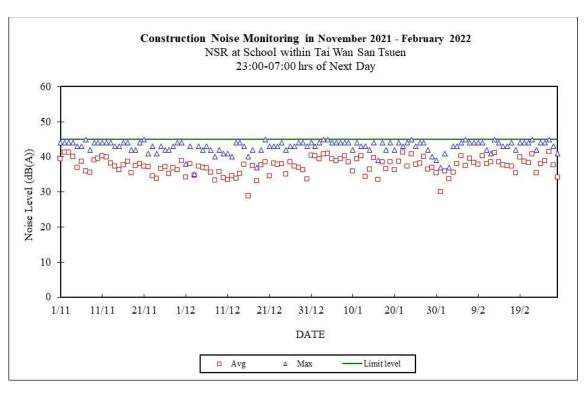












Appendix F

The QA/QC Procedures and Results

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

Month: February Year: 2022

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)
06/02/2022	266.953	4	3.06	10.31
12/02/2022	267.183	4	3.01	10.31
18/02/2022	266.756	4	3.06	10.31
24/02/2022	266.644	4	3.10	10.31

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)
06/02/2022	247.718	4	2.60	14.40
12/02/2022	247.438	4	2.44	14.01
18/02/2022	253.252	4	3.12	14.18
24/02/2022	253.062	4	3.26	14.48

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)	
06/02/2022	254.010	4	3.00	13.68	
12/02/2022	253.750	4	3.00	13.68	
18/02/2022	258.254	4	3.00	13.67	
24/02/2022	258.134	4	3.00	13.68	

Maintenance Record					
	Reservoir	East Gate	Ash Lagoon		
TEOM Filter Exchange	/	/	/		
Clean TSP Inlet	/	/	1		
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
17/02/2022 / 10:30	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR84
New filter paper no.	MR85

Type of filter: Glass-fibre

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

Before: <u>5.033</u>

After: <u>5.033 (No adjustment)</u>

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 Checked by: SM Hon

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

Date	Location: A	Ash Lagoon	Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/02/2022	Passed	-0.18	Passed	-0.18
02/02/2022	Passed	-0.19	Passed	-0.21
03/02/2022	Passed	-0.18	Passed	-0.17
04/02/2022	Passed	-0.16	Passed	-0.17
05/02/2022	Passed	-0.15	Passed	-0.16
06/02/2022	Passed	-0.16	Passed	-0.13
07/02/2022	Passed	-0.16	Passed	-0.18
08/02/2022	Passed	-0.16	Passed	-0.15
09/02/2022	Passed	-0.13	Passed	-0.16
10/02/2022	Passed	-0.15	Passed	-0.14
11/02/2022	Passed	-0.14	Passed	-0.15
12/02/2022	Passed	-0.16	Passed	-0.16
13/02/2022	Passed	-0.16	Passed	-0.17
14/02/2022	Passed	-0.16	Passed	-0.15
15/02/2022	Passed	-0.15	Passed	-0.16
16/02/2022	Passed	-0.14	Passed	-0.18
17/02/2022	Passed	-0.16	Passed	-0.16
18/02/2022	Passed	-0.21	Passed	-0.22
19/02/2022	Passed	-0.25	Passed	-0.26
20/02/2022	Passed	-0.22	Passed	-0.24
21/02/2022	Passed	-0.23	Passed	-0.23
22/02/2022	Passed	-0.19	Passed	-0.21
23/02/2022	Passed	-0.19	Passed	-0.21
24/02/2022	Passed	-0.17	Passed	-0.17
25/02/2022	Passed	-0.16	Passed	-0.18
26/02/2022	Passed	-0.14	Passed	-0.15
27/02/2022	Passed	-0.13	Passed	-0.13
28/02/2022	Passed	-0.12	Passed	-0.12

Remarks:

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

Appendix G Event/Action Plans

Table G.1 Event and Action Plans for Air Quality

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

Event	Monitoring		Action	
	ET Leader	IEC	Engineer	Contractor
consecutive	If the exceedance is found to be valid	ET / Contractor	failure in writing	avoid further exceedance
samples	and due to the construction works, verbally advise the Contractor, Engineer	Advise Engineer on the effectiveness of the proposed remedial measures	Checking monitoring data and Contractor's working methods	Submit proposals for remediactions to Engineer within 3
	and IEC, and inform the EPD of the exceedance as soon as practicable.	Verify the implementation of the	Notify Contractor	working days of notifications
	Repeat measurement to confirm finding	with ET and Contractor Ensure remedial measures pro	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 a	Implement remedial actions immediately
	Discuss remedial actions required with Engineer.		If the exceedance continues, consider	upon instruction from the Engineer.
	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	If the exceedance continues, consider what portion of the work is responsible and, as instructed by the Engineer, stop the portion of work until the exceedance is abated

Table G.3 Event and Action Plans for Water Quality

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

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

Appendix H Summary of Site Audit Findings

L11 Civil and Building Works
<u>Dates of Inspection</u> : 8/2/2022, 15/2/2022 and 22/2/2022.
Summary of Findings
General
- No environmental deficiency identified.
Air Quality
- No environmental deficiency identified.

- No environmental deficiency identified.

Water Quality

Noise

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

L11 Mechanical, Electrical, Instrumentation & Control Erection Works Dates of Inspection: 4/2/2022, 10/2/2022, 17/2/2022 and 24/2/2022. 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: 8/2/2022, 15/2/2022 and 22/2/2022.

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: 4/2/2022, 10/2/2022, 17/2/2022 and 24/2/2022.

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. **	
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay. **	N/A
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
В6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented: **	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	

EM&A Log Ref.	Mitigation Measures	Implementation Status	
В7	In addition to the above specific measures the following general working procedures shall be adopted. **		
	fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A	
	the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A	
	barges shall be loaded carefully to avoid splashing of material;	N/A	
	all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A	
	all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A	
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A	
	"rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A	
	the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A	
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels.	N/A	
	NOISE		
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С	
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.		
С3	Mitigate against night time noise from dredging equipment, with silencers or mufflers. **	N/A	
	LANDSCADE & VISUAL IMPACTS		
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**	N/A					
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms**	N/A					
G4	Artificial Reefs of a volume not less than 400 m ³ shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.**	N/A					
	FISHERIES						
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A					
	RISK ASSESSMENT						
I1	No risk mitigation measures are required during the construction phase.	N/A					

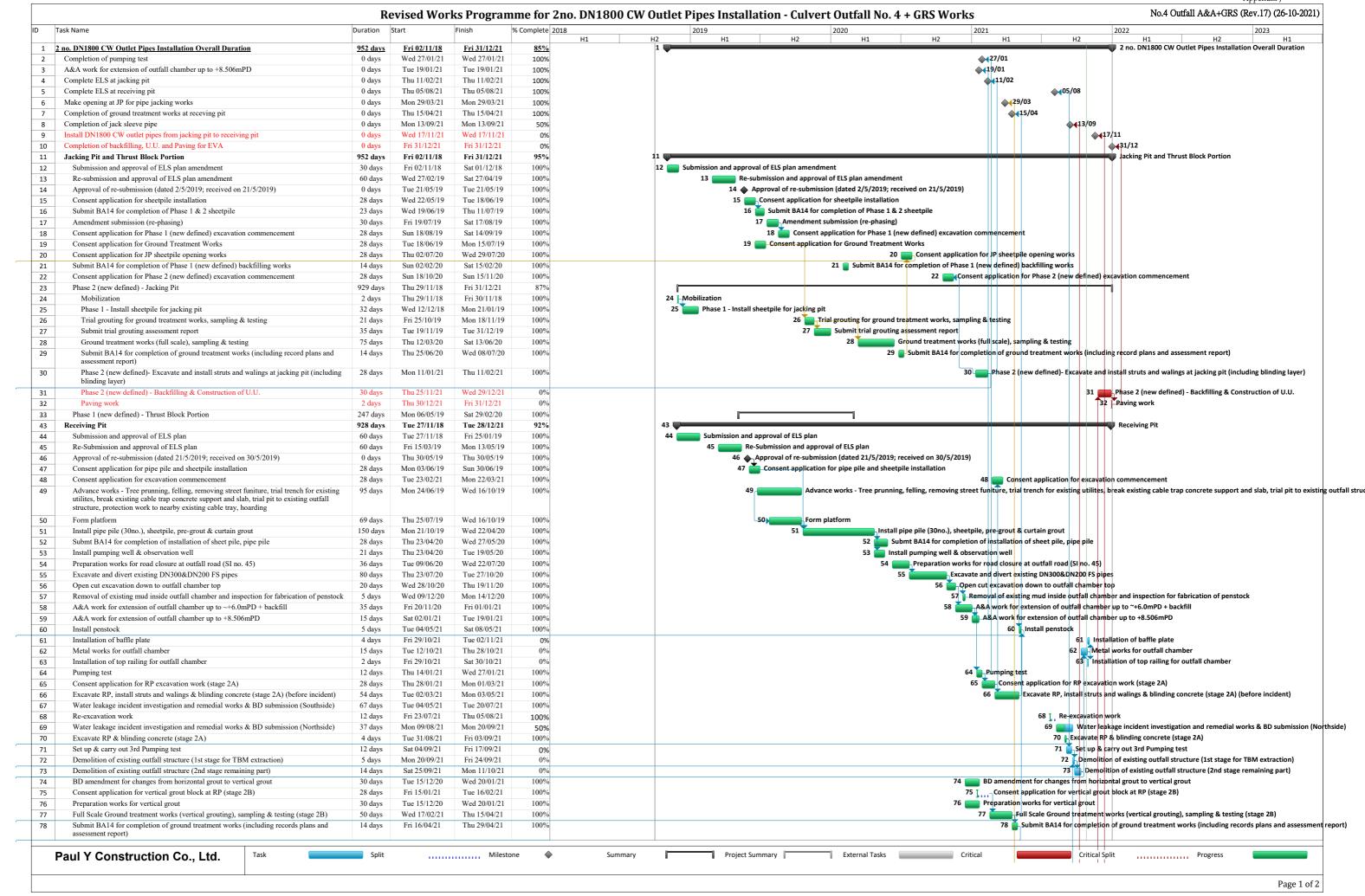
Remarks:

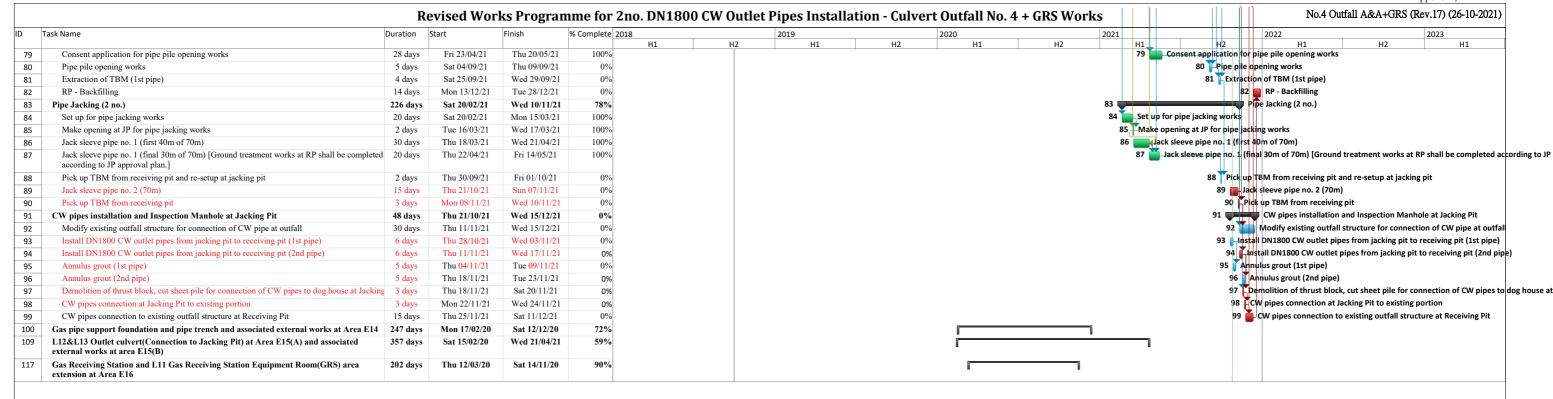
No dredging and reclamation work would be involved for L11 & L12 construction Compliance with mitigation measure
Non-compliance with mitigation measure
Not Applicable **

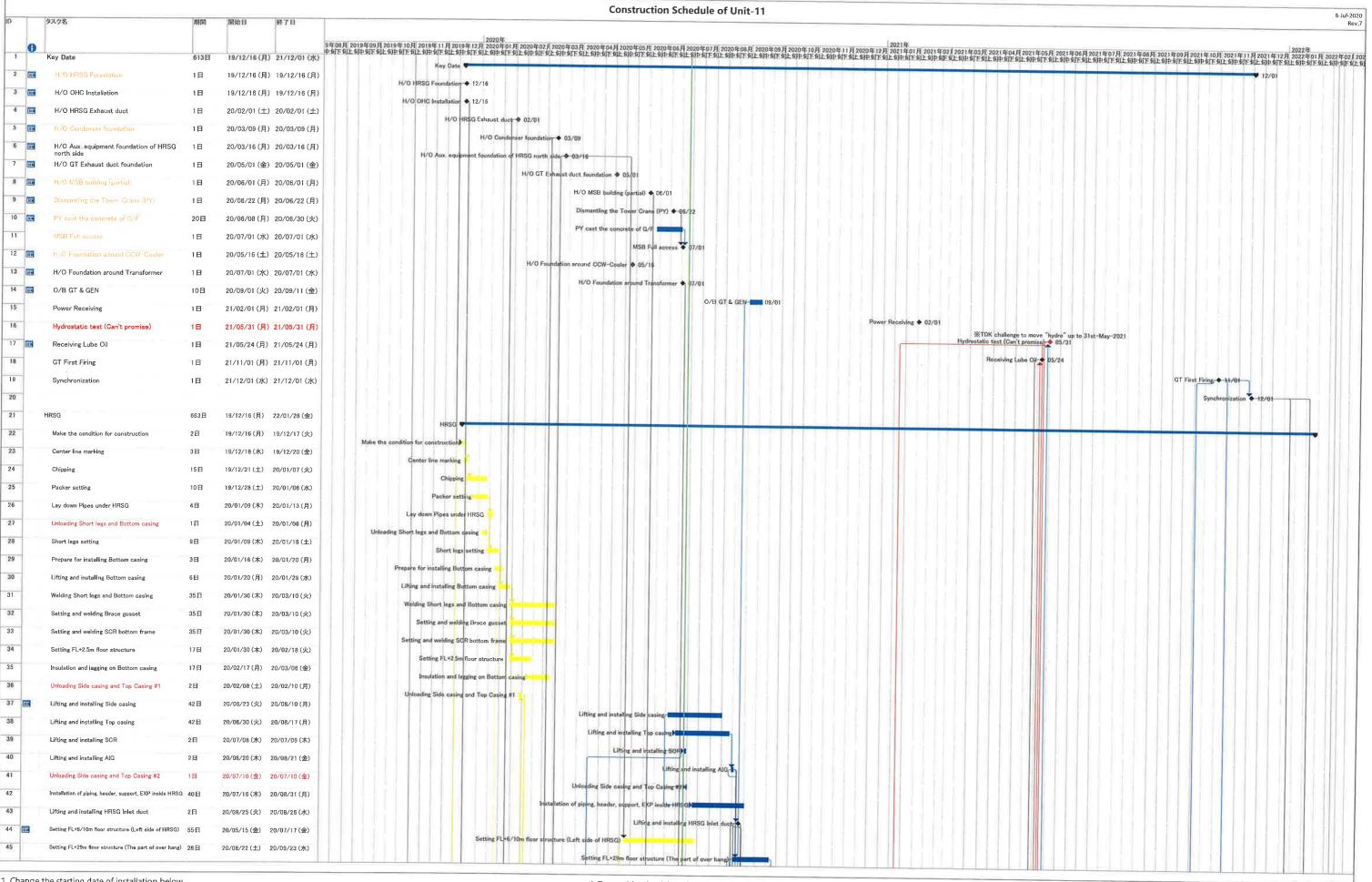
C

NC

N/A





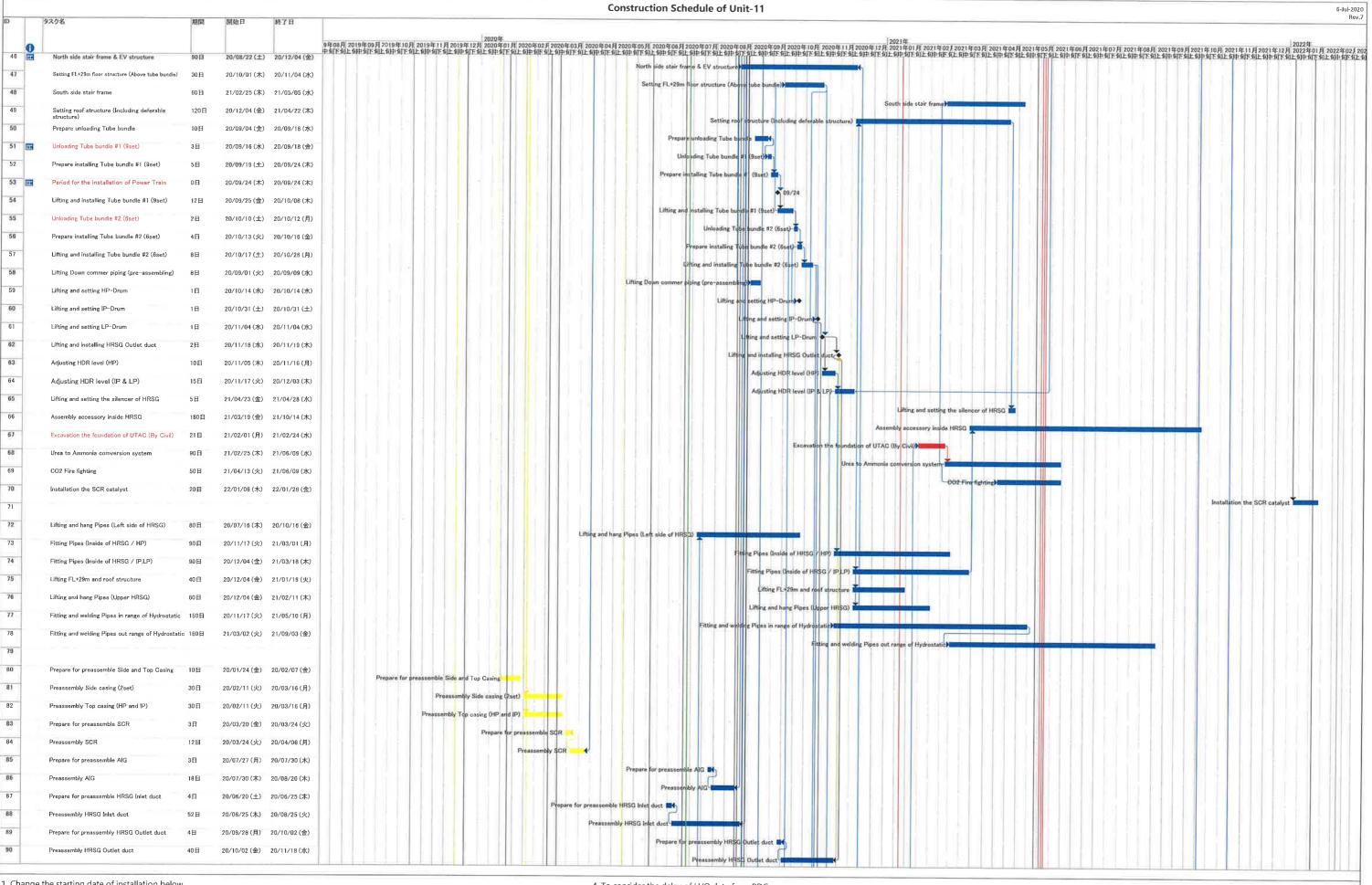


[.] Change the starting date of installation below

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

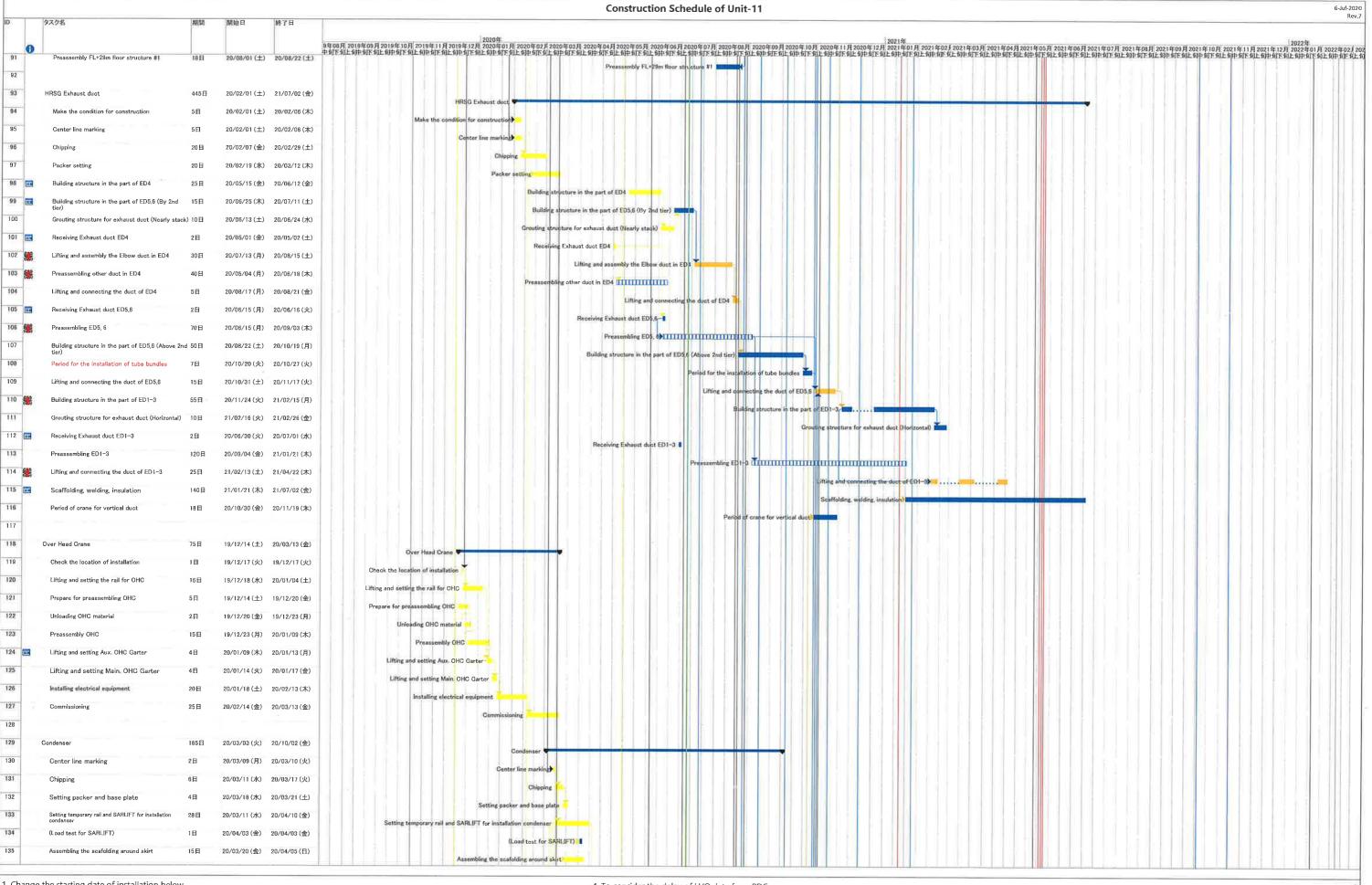


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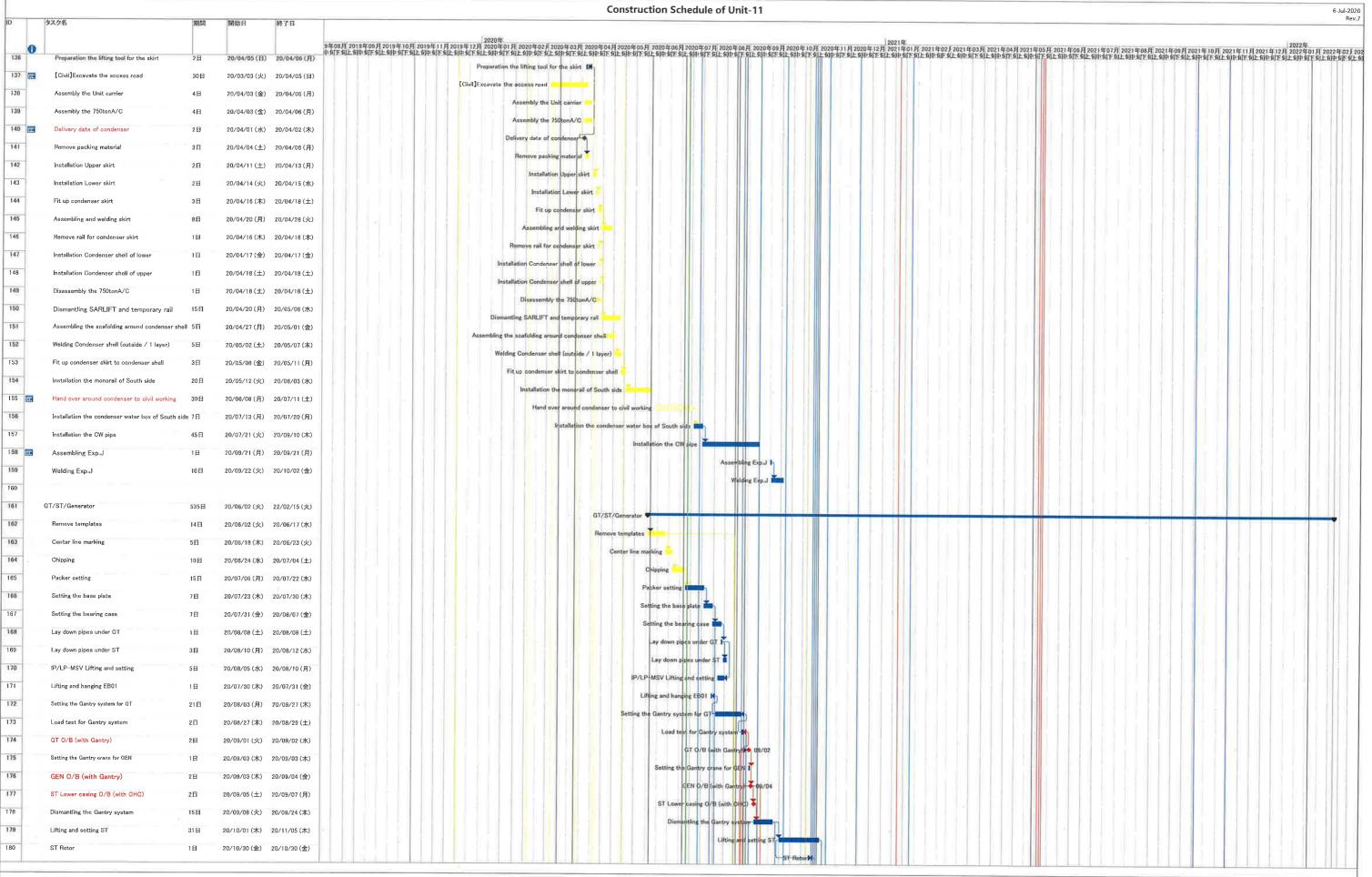


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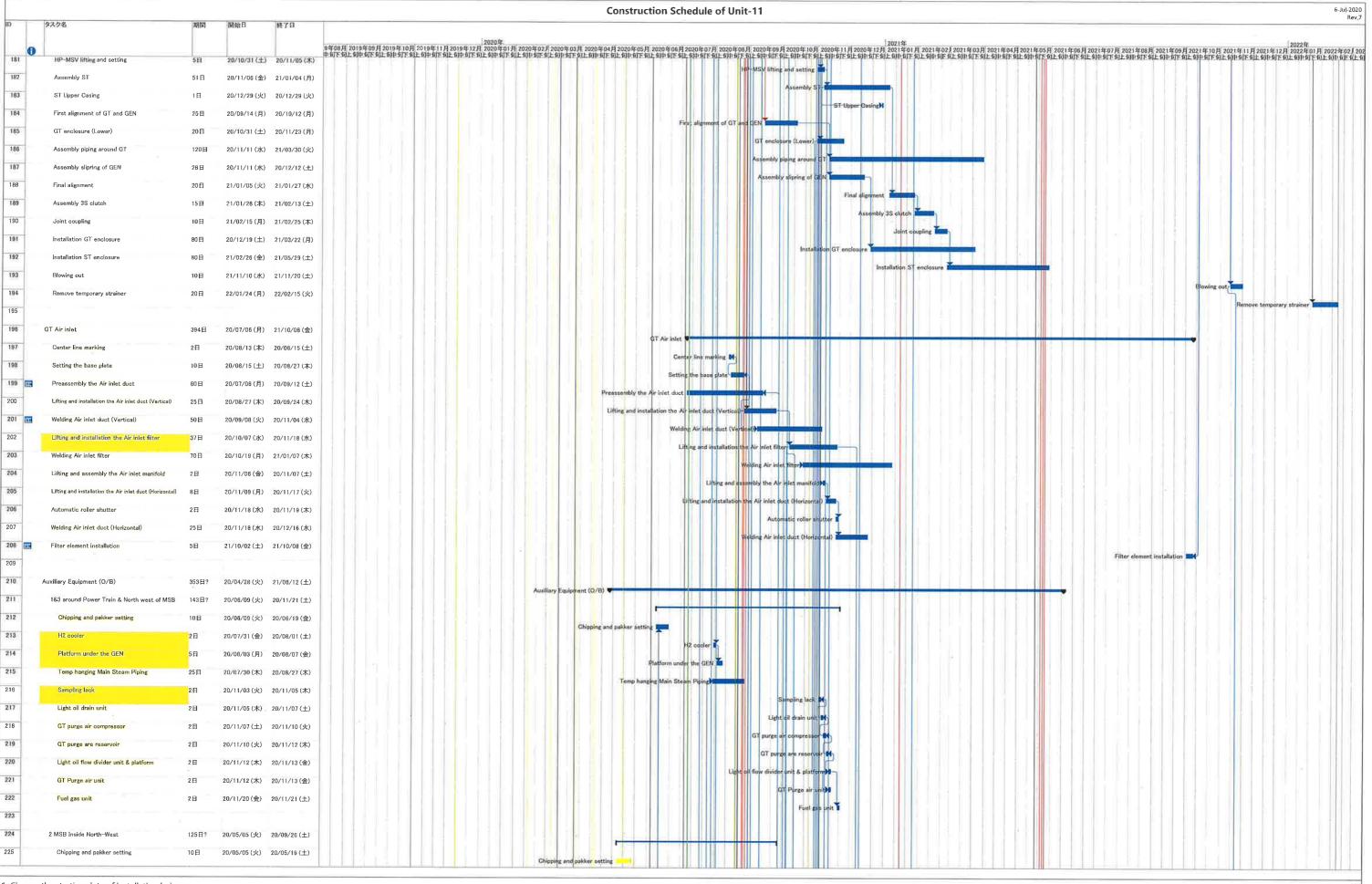
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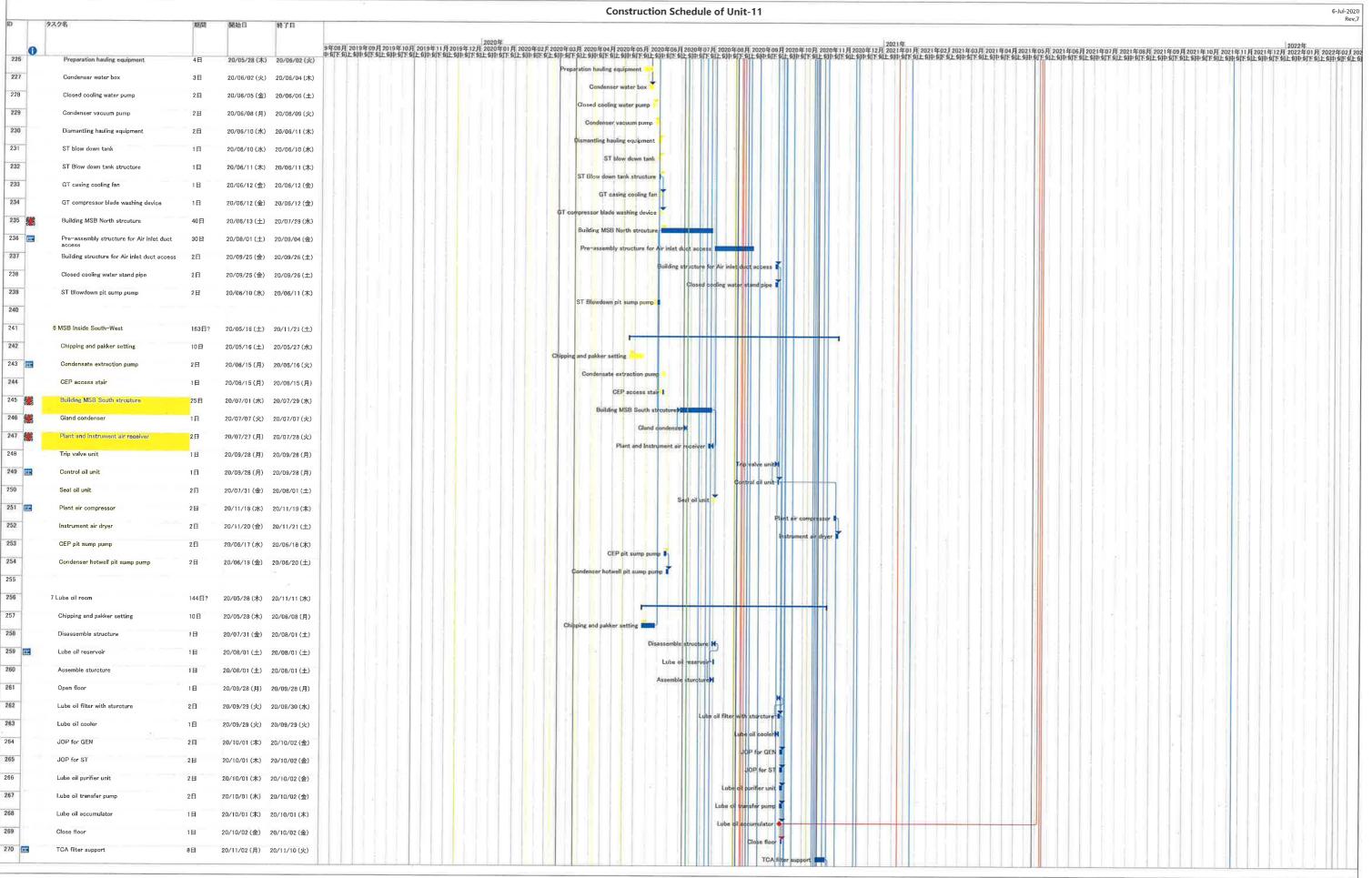


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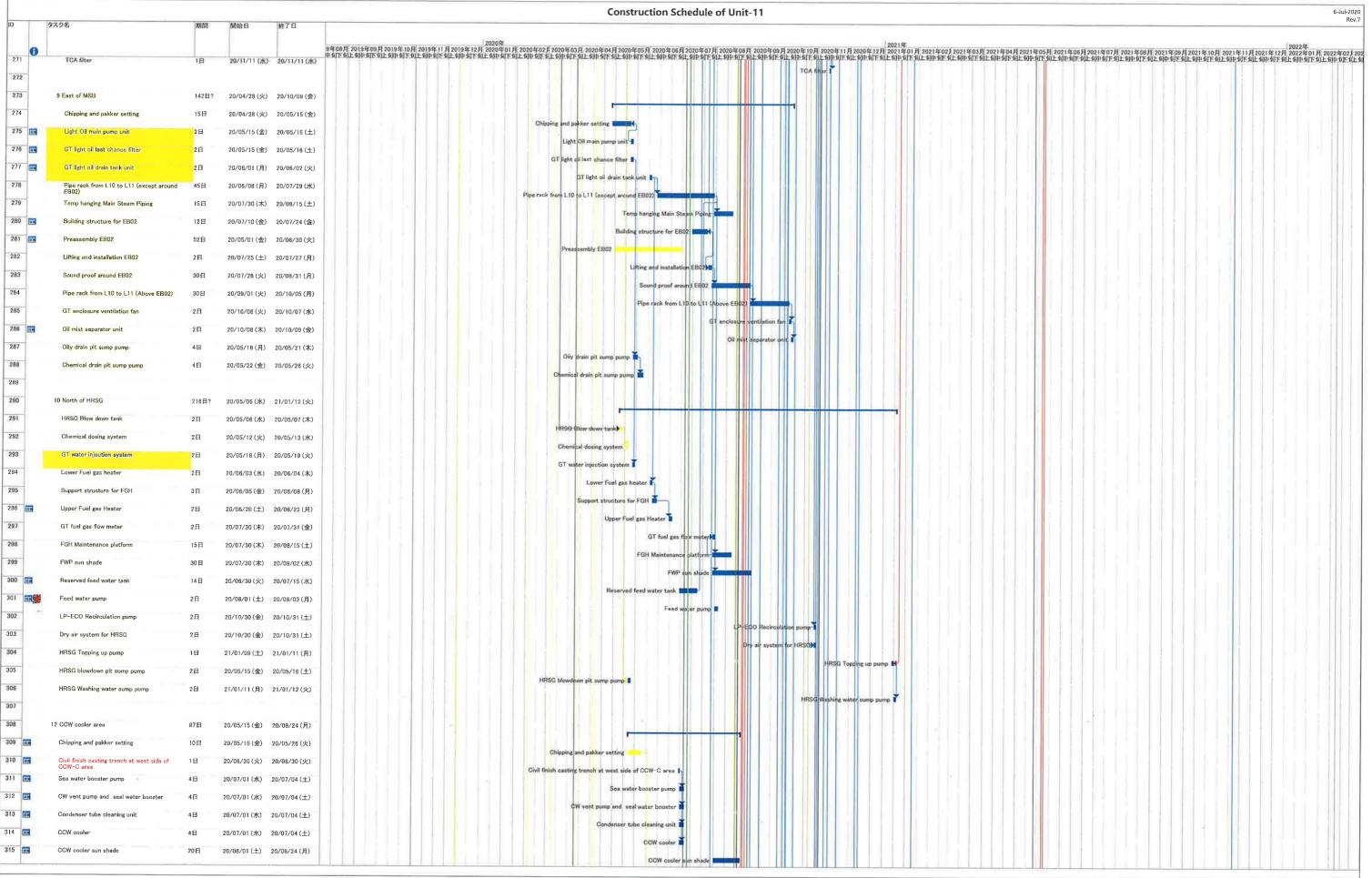


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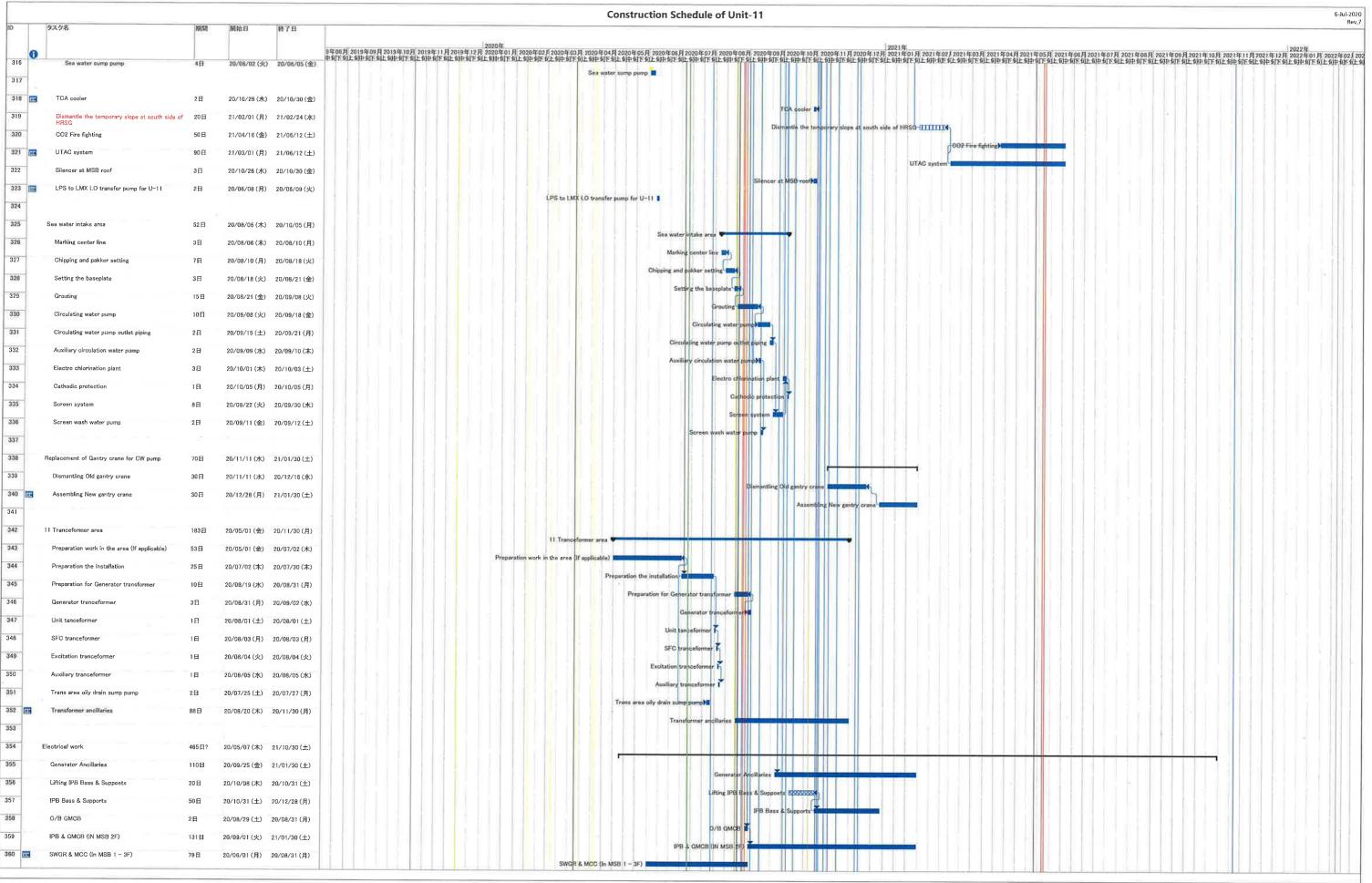


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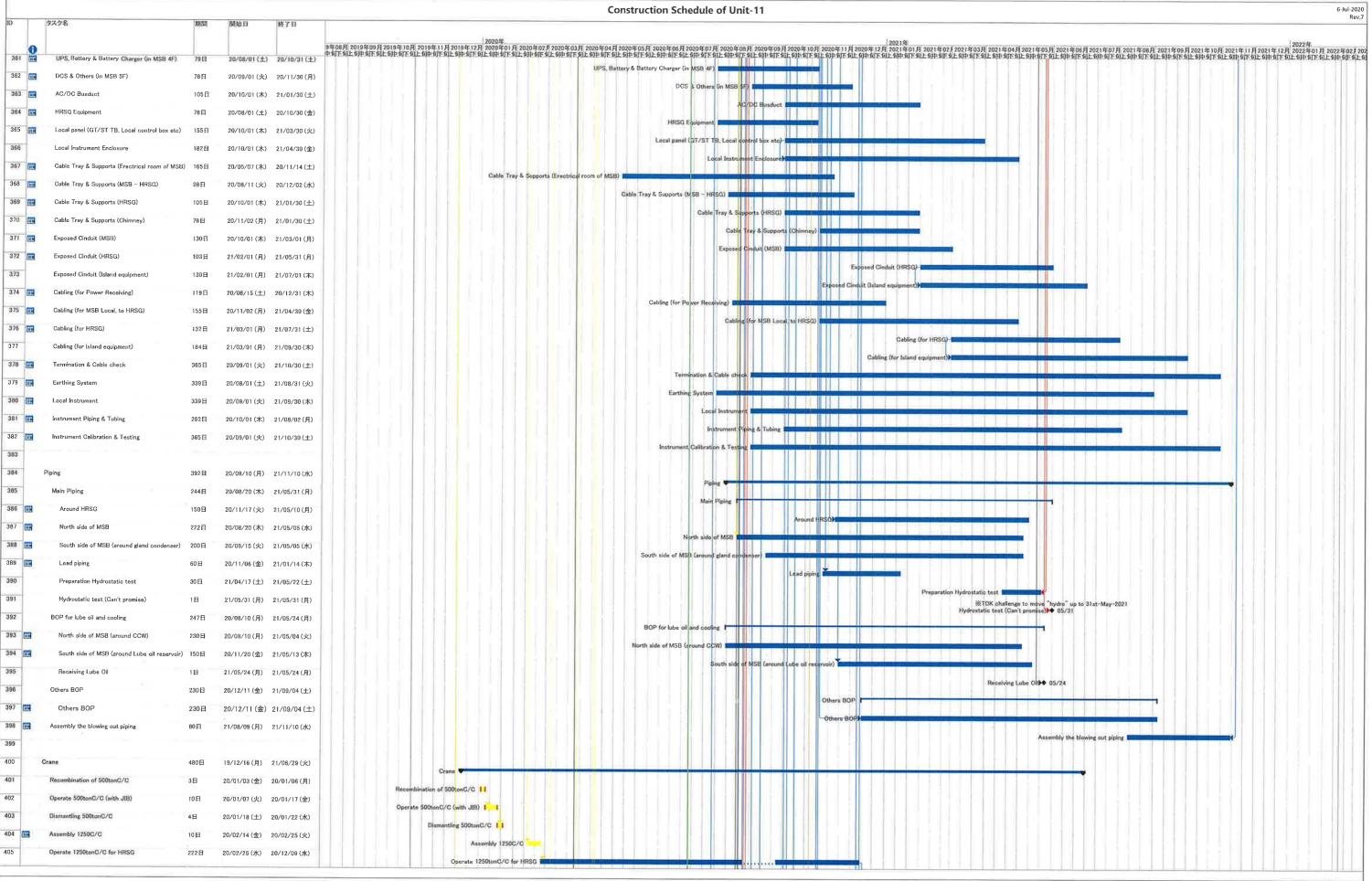


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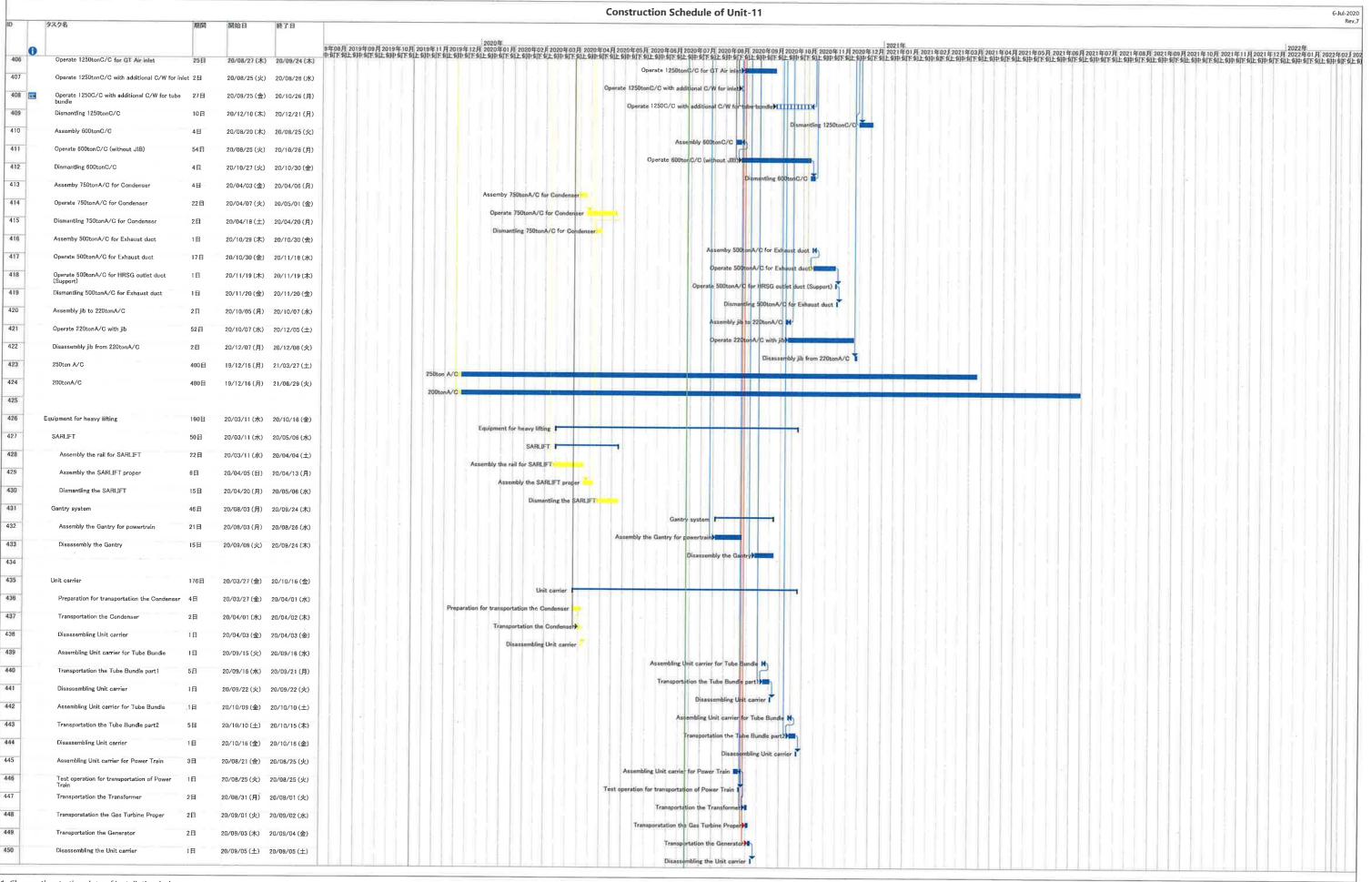


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^{2.} To consider that structure of Takasago portion is delayed

	ntract No. 19/83002 Lamma Power Station Extension Civil and						Mast	er Programme
ID T	ask Name KEY DATES & MILESTONES	Duration 1123 days	Start Fri 4/12/20	Finish Sun 31/12/23	Mar		Apr	May
3	Contract Period Deferred Work Completion Key Dates	1123 days 784 days	Fri 4/12/20 Mon 8/11/21	Sun 31/12/23 Sun 31/12/23				
	Substantial Completion of the Whole Contract Works (1123 Days) SITE POSSESSION DATES	0 days 513 days	Sun 31/12/23 Fri 4/12/20	Sun 31/12/23 Sun 1/5/22				
6 7 8	Site Possession Date as phased site possesion plan and PS1.4.2 Site Possession Date as phased site possesion plan and PS1.4.2 Site Possession Date as phased site possession plan and PS1.4.2	0 days 0 days 0 days	Fri 4/12/20 Fri 1/1/21 Sat 1/5/21	Fri 4/12/20 Fri 1/1/21 Sat 1/5/21				
9	Site Possession Date as phased site possession plan and PS1.4.2 Site Possession Date as phased site possession plan and PS1.4.2	0 days 0 days 0 days	Fri 1/10/21 Fri 1/4/22	Fri 1/10/21 Fri 1/4/22		Şite Possession	Date as phased site possesion plan and PS1.4.2	2
11	Site Possession Date as phased site possesion plan and PS1.4.2 COMPLETION DATES as per PS1.4.2 Time for Completion	0 days 537 days	Sun 1/5/22 Thu 30/9/21	Sun 1/5/22 Tue 21/3/23			♦ Site Possess	ion Date as phased site possesion plan
13	Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & F2	0 days	Thu 30/9/21	Thu 30/9/21				
14	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works	0 days	Mon 1/11/21	Mon 1/11/21				
15 16 17	Section A2 (i) External Works including CW Inlet Culvert at Area F8A Section A2 (ii) External Works including CW Intet Culvert at Area F8B	0 days	Mon 10/1/22 Thu 31/3/22 Fri 11/3/22	Mon 10/1/22 Thu 31/3/22	Section A2 (iii) External Work		xternal Works including CW Intet Culvert at Area	ı F8B
18	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	0 days 0 days 0 days	Wed 15/12/21 Thu 30/9/21	Fri 11/3/22 Wed 15/12/21 Thu 30/9/21	COSTON AL (III) EXISTING NOTE	and damig on mot	Santat at Alba 100	
20	553/03/2040 including the foundations for Gas Exhaust Duct Section B2 (ii) - Remaining northern part of LI2 HRSG area and its surrounding at Area F6A and F6C	0 days	Mon 15/11/21	Mon 15/11/21				
21	Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil	0 days	Mon 28/2/22	Mon 28/2/22	Section B2 - (iii) L12 Turbo Block foundation inc	uding the L12 MSB g	ground floor together with the equipment founda	tions between GL 12-F to 12-H and 12-1
22	reservoir Section 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	0 days	Wed 15/12/21	Wed 15/12/21	GL 12-B to 12-C and 12-1 to 12-6 for the installation	of condenser		
23	Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern areas mentioned above in Area F5	0 days	Sat 15/1/22	Sat 15/1/22	HRSG in addition to the southern & eastern areas	mentioned above in	Area F5	
24	Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works	0 days	Thu 31/3/22	Thu 31/3/22			/hole of L12 MSB including the pipe and cable ra	
25 26	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 Windshilled for the installation of miscrowave equipment and antenna	0 days 0 days	Sun 10/4/22 Fri 10/6/22	Sun 10/4/22 Fri 10/6/22		*	Section C - (iii) Link Bridge between L11 and L1	12 MSB including their associated A&A
27 28	Section D (ii) - No. 5 Chimney with L12 Steel Flue liner Section E (i) Tx Room of Adminintration and Control Building	0 days 0 days	Tue 21/3/23 Sun 31/10/21	Tue 21/3/23 Sun 31/10/21				
29 30	Section E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building Section E (iii) - Whole of Admin. And Control Building	0 days 0 days	Mon 28/2/22 Tue 31/5/22	Mon 28/2/22 Tue 31/5/22	Section E (ii) - G/F,1/F, 2/F & Hoisting Well of Ad	nin. & Control Buildi	ng	•
31	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14	0 days	Wed 30/11/22	Wed 30/11/22				
32 33 34	Setion F (ii) - Pipe and Cable rack and external work at Area F9A and F9B Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10 Section G (i) - External Work surrounding Area F11	0 days 0 days 0 days	Tue 31/5/22 Wed 31/8/22 Wed 26/10/22	Tue 31/5/22 Wed 31/8/22 Wed 26/10/22				•
35 36	Section G (ii) - External work surrounding Area F11 Section G (iii) - External Works at Area F12 & F13 Section G (iii) - FS Modification works along South Seafront Road at Area F15	0 days 0 days 0 days	Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22				
37 38	Section G (iv) - 275kV cable trenches and External Works at Area F16 Section G (v) - Shunt Reactor Compound and External Works at Area F17	0 days 0 days	Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22				
39 40 41	Section G (vi) - 275kV cable trenches and External Works at Area F18 Section G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A Section G (viii) - Flood wall at No. 5 CW Intake Area along HUI at Area F20B	0 days 0 days	Wed 1/6/22 Sun 8/5/22 Fri 30/9/22	Wed 1/6/22 Sun 8/5/22 Fri 30/9/22			•	Section G (vii) - Flood Wall at No. 4 CW
41 42 43	Seciton G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B Seciton G (ix) - Bund wall modification works at South Seafront Road at Area F21 Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	0 days 0 days 0 days	Fri 30/9/22 Fri 15/10/21 Sat 31/12/22	Fri 30/9/22 Fri 15/10/21 Sat 31/12/22				
44	Section 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				
46	GENERAL & PRELIMINARY First Mobilization	228 days 18 days	Fri 4/12/20 Fri 4/12/20	Mon 19/7/21 Mon 21/12/20				
47 48 49	Set up Temporary Site Office and Welfare Factiliites Permit Applications & Statuary Submissions	90 days 120 days	Tue 22/12/20 Mon 22/3/21	Sun 21/3/21 Mon 19/7/21				
50	Existing Utilities scanning & Excavation Permit Tower Crane erections	45 days 60 days	Tue 22/12/20 Sun 27/12/20	Thu 4/2/21 Wed 24/2/21				
52	FECHNICAL SUBMISSION AND APPROVAL BD Approval & Consent (If required) Submission and Approval of Master Programme	314 days 0 days 14 days	Thu 10/12/20 Thu 10/12/20 Fri 11/12/20	Wed 20/10/21 Thu 10/12/20 Thu 24/12/20				
54 55	Work Execuation Overal Plan submission & approval Material Submissions and approval	14 days 300 days	Fri 11/12/20 Fri 25/12/20	Thu 24/12/20 Wed 20/10/21				
56 57	Method Statement submission and approval BIM Model, CSD & CBWD Submission & approval	300 days 120 days	Fri 25/12/20 Fri 25/12/20	Wed 20/10/21 Fri 23/4/21				
58 59	Structure Steelwork Connection Design Submission & BD approval Structure Steelwork Shop Drawing & Approval	45 days 30 days	Tue 29/12/20 Fri 12/2/21	Thu 11/2/21 Sat 13/3/21				
60 61 62	Metal Cladding, louvre & windows submission & BD approval Metal Cladding, louvre & windows shop drawing submission Order. Off Site Fabrication and Delivery (S. Steel & Cladding & Jouvres)	45 days 45 days 120 days	Tue 29/12/20 Fri 12/2/21 Mon 29/3/21	Thu 11/2/21 Sun 28/3/21 Mon 26/7/21				
63 64	No. 5 Chimney windshield temporary work submission, approval & fabrication	90 days 60 days	Fri 11/12/20 Fri 11/12/20	Wed 10/3/21 Mon 8/2/21				
65 66	Steel Flue Assessment Report and Design Drawings submission & approval Folding Shutters Shop Drawing Submission & Approval	60 days 30 days	Tue 9/2/21 Thu 11/2/21	Fri 9/4/21 Fri 12/3/21				
67 68 69	Fabrication & Delivery of Folding Shutters Sewage Pump System Design submission & approval Fabrication & Delivery of Sewage Pump	180 days 45 days 180 days	Sat 13/3/21 Tue 23/2/21 Fri 9/4/21	Wed 8/9/21 Thu 8/4/21 Tue 5/10/21				
70 71	Other material submission & approval & delivery Other material submission & approval & delivery	180 days 180 days	Sat 24/4/21 Sat 24/4/21	Wed 20/10/21 Wed 20/10/21				
72 73	CONSTRUCTION Coordination with the Employer's Specialist Contractors	1123 days 562 days	Fri 4/12/20 Fri 15/1/21	Sun 31/12/23 Sat 30/7/22)R			
74 75	Installation of Puddle Pipes at C.W. outlet Culvert Installation of Puddle Pipes at C.W. Inlet Culvert	7 days 7 days	Mon 22/3/21 Thu 27/5/21	Sun 28/3/21 Wed 2/6/21				
76	Template setting at L12 Turbo Block Foundation Template setting of holding down bolts at HRSG column base	45 days 45 days	Tue 16/11/21 Fri 15/1/21	Thu 30/12/21 Sun 28/2/21				
78 79	I-beam / channel base installation on top of transformer foundations at Transformer Area 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	45 days 38 days	Tue 1/6/21 Mon 1/11/21	Thu 15/7/21 Wed 8/12/21	-6			
80	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			Condenser assembly and erection usi	ing access through a temporary façade
81	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		*		
82	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21				
83	Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & F2	301 days	Fri 4/12/20	Thu 30/9/21				
84 85	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				
86 87	Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe	14 days 70 days	Tue 1/6/21 Tue 15/6/21	Mon 14/6/21 Mon 23/8/21				
88 89 90	Backfill Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection	7 days 21 days 3 days	Tue 24/8/21 Tue 31/8/21 Tue 28/9/21	Mon 30/8/21 Mon 27/9/21 Thu 30/9/21				
91	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works	333 days	Fri 4/12/20	Mon 1/11/21				
92	Area Possession & Clearance Subletting / Fabrication / Delivery	45 days 210 days	Fri 4/12/20 Tue 23/2/21	Sun 17/1/21 Mon 20/9/21				
94 95	Complete structural steel erection Install Crane Girders	0 days 11 days	Tue 19/10/21 Tue 12/10/21	Tue 19/10/21 Fri 29/10/21				
96 97 98	Construction of roof slab (except defer work) Touch up and handover for install overhead cranes Section A2 (i) External Works including CW Inlet Culvert at Area F8A	14 days 3 days 403 days	Tue 12/10/21 Sat 30/10/21 Fri 4/12/20	Mon 1/11/21 Mon 1/11/21 Mon 10/1/22				
99	Section A2 () External works including CW inlet Culvert at Area F8A BD consent for Sheetpile installation Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days 30 days	Fri 4/12/20 Fri 4/12/20 Fri 18/12/20	Sat 2/1/21 Sat 16/1/21				
101 102	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				
103	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				
105 106 107	ELS and install CW Inlet Pipe (NW to N direction) (Assume flexible joint deliver in Sep 2021) Construction of Thust Box & Manholes, etc	100 days 15 days	Fri 16/7/21 Thu 16/9/21	Sat 23/10/21 Thu 30/9/21				
108	Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area F8B Area Possession & Clearance	79 days 483 days 30 days	Sun 24/10/21 Fri 4/12/20 Mon 1/3/21	Mon 10/1/22 Thu 31/3/22 Tue 30/3/21		🥃 31 Mar '22		
110	BD consent for Sheetpile installation Install Sheet pile	30 days 90 days	Fri 4/12/20 Fri 2/4/21	Sat 2/1/21 Wed 30/6/21				
112 113	BD Consent for ELS ELS and install CW Inlet Pipe	28 days 100 days	Thu 1/7/21 Thu 29/7/21	Wed 28/7/21 Fri 5/11/21				
114 115 116	Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving	15 days 146 days	Wed 1/9/21 Sat 6/11/21	Wed 15/9/21 Thu 31/3/22	1 Mar '22	Backfill, UG Utilit	ies and Road Paving	
116 117 118	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C Area Possession & Clearance Sublettind / Fabrication / Deliver (for Area F8C)	365 days 30 days 60 days	Fri 12/3/21 Fri 12/3/21 Fri 12/3/21	Fri 11/3/22 Sat 10/4/21 Mon 10/5/21	11 mai 22			
119 120	BD consent for Sheetpile installation Install Sheet pile	30 days 62 days	Tue 13/4/21 Thu 13/5/21	Wed 12/5/21 Tue 13/7/21				
121	BD Consent for ELS ELS and install CW Inlet Pipe (including soil nail installation under 19/83014)	35 days 76 days	Wed 14/7/21 Wed 18/8/21	Tue 17/8/21 Thu 20/1/22	r 19/83014)			
123 124 125	Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving Section Plant Access of the Control of the Co	30 days 20 days	Fri 21/1/22 Sun 20/2/22	Fri 11/3/22	of Thrust Box & Manholes,etc Backfill, UG Utilities and Road	Paving		
125	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3 Area Possession & Clearance	377 days 30 days	Fri 4/12/20 Fri 4/12/20	Wed 15/12/21 Sat 2/1/21				
127 128	Area Possession & Clearance Subletting / Fabrication / Delivery Complete CW Pipe Installation & Thrust box	120 days 45 days	Fri 4/12/20 Fri 25/12/20 Tue 25/5/21	Sat 2/1/21 Fri 23/4/21 Thu 8/7/21				
129 130	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				
131	Temp Paving and handover for Condenser Move in Section B2 - (i) Southern part of L12 HRSG area and its surrounding at Area F6B including the	20 days 273 days	Fri 26/11/21 Fri 1/1/21	Wed 15/12/21 Thu 30/9/21				
133	foundations for Gas Exhaust Duct Area Possession & Clearance Subletting / Fabrication / Delivery (for F6B Civil and E&M)	30 days 120 days	Fri 1/1/21 Sat 2/1/21	Sat 30/1/21 Sat 1/5/21				
135	Construction of Underground pits	35 days	Tue 8/6/21	Sat 1/5/21 Mon 12/7/21				
	ER PROGRAMME B 23 Aug 2021 Task Split	Summary						

ct No. 19/83002 Lamma Power Station Extension Civil	Duration Duration	Start	Finish	Master Prog
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	Mar Apr May
struction HRSG & Gas Duct foundations struction 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	
struction underground utilities within HRSG tfill & Construction on-grade slabs & RC plinths on top	55 days 14 days	Mon 19/7/21 Fri 30/7/21	Sat 11/9/21 Mon 27/9/21	
rfill and Temporary paving on B2 (ii) - Remaining northern part of Ll2 HRSG area and its surrounding at Area F6A and	21 days F6C 319 days	Fri 10/9/21 Fri 1/1/21	Thu 30/9/21 Mon 15/11/21	
Possessiong and Clearance at Area F6A	30 days	Fri 1/1/21	Sat 30/1/21	
rt dissessioning and obstantice at Area ToA tetting / Fabrication / Delivery (for Area F6A and F6C civil) struction of Underground pits (HRSG Blowdown sump pit)	90 days 110 days	Sat 2/1/21 Sat 2/1/21	Thu 1/4/21 Wed 21/4/21	
avation & Construct Pile Caps & Tie Beams & Piers struction underground utilities within HRSG	139 days 55 days	Mon 1/2/21 Mon 19/7/21	Sat 10/7/21 Sat 11/9/21	
struction of Underground pits (GT Oil & Chemical drain pits) ffill & 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	90 days	Thu 22/4/21	Tue 20/7/21 Mon 8/11/21	
struction of Underground utilities at F6C fill and Temporary paving	21 days 7 days	Tue 19/10/21 Tue 9/11/21	Mon 15/11/21	4 28 Feb '22
on B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with ment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power	the 452 days	Fri 4/12/20	Mon 28/2/22	
ator, air inlet duct and lube oil reservoir Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
etting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12) plete 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) fill 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) struction of internal drainage & on-grade slab	45 days 90 days	Sat 17/4/21 Wed 1/9/21	Mon 31/5/21 Mon 29/11/21	
struction turbine block columns and upper portion for plant embed installation crete Turbine upper part foundation	83 days 15 days	Wed 25/8/21 Fri 31/12/21	Mon 15/11/21 Fri 14/1/22	
struction of Lube Oil Room crete RC walls	14 days 115 days	Tue 30/11/21 Tue 7/9/21	Fri 28/1/22 Thu 30/12/21	
W Works ling Services Works	60 days 45 days	Thu 4/11/21 Sat 15/1/22	Sun 2/1/22 Mon 28/2/22	-Building Services Works
ove temporary falsework and scaffolding for installation of power generator on B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and	13 days 377 days	Mon 7/2/22 Fri 4/12/20	Sat 19/2/22 Wed 15/12/21	prary falsework and scaffolding for installation of power generator
ment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condens	ser		1100 10/12/21	
Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
etting / Fabrication / Delivery (for MSB L12 civil) vivation to foundation level at ELS SP Type A & C	150 days 80 days	Fri 25/12/20 Fri 1/1/21	Sun 23/5/21 Sun 21/3/21	
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 fill & 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 fill 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 (fill & construction on-grade slabs	14 days 60 days	Fri 13/8/21 Sun 1/8/21	Thu 26/8/21 Wed 29/9/21	
struction Column casting and RC walls & equipment foundations W Works	50 days 15 days	Thu 30/9/21 Fri 19/11/21	Thu 18/11/21 Fri 3/12/21	
ling Services Works Works and Ready for condenser move in	20 days 25 days	Fri 26/11/21 Wed 17/11/21	Wed 15/12/21 Wed 15/12/21	
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	
Possession & Clearance etting / 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 rfill and lay temporary paving	30 days 91 days	Fri 17/9/21 Sun 17/10/21	Sat 16/10/21 Sat 15/1/22	
on C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 M Il underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the defer	MSB 483 days	Fri 4/12/20	Thu 31/3/22	©D(iii)
		F-: 4/40/00	O: 47/4/04	
Possession & Clearance etting / 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 fill and on-grade slab at transformer Area	180 days 160 days	Sun 31/1/21 Sun 11/4/21	Thu 29/7/21 Thu 7/10/21	
struction of Fire Walls at Transformer Area vation & Construction Blow Down Sum pit (SP Type B)	45 days 140 days	Fri 8/10/21 Wed 14/4/21	Sun 21/11/21 Tue 31/8/21	
paration for S.Steelwork Erection ctural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	7 days 67 days	Sat 5/6/21 Sat 12/6/21	Fri 11/6/21 Tue 17/8/21	
ctural Delivery & Erection (Equipment Floors) 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	
Tightening and touch up coating rnal Scaffolding Erection	99 days 97 days	Sat 3/7/21 Thu 15/7/21	Wed 24/11/21 Mon 22/11/21	
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 7 days	Thu 30/9/21 Thu 7/10/21	Sun 17/10/21 Sun 24/10/21	
struction 5/F RC Slab	44 days 14 days	Mon 25/10/21 Wed 1/12/21	Tue 7/12/21 Tue 14/12/21	
struction Upper Roof RC Slab struction Main Roof RC Slab	10 days	Sun 12/12/21 Tue 12/10/21	Fri 24/12/21 Fri 19/11/21	
struction Defer Roof RC Slab (G.L. G-H)	39 days 14 days	Wed 1/12/21	Tue 14/12/21	
struction of Staircase ST-01 & lift shaft & machine room struction M/F RC Slab	130 days 14 days	Fri 27/8/21 Wed 1/9/21	Mon 3/1/22 Tue 14/9/21	
nstallation struction of Staircase ST-02 except defer work	60 days 68 days	Tue 4/1/22 Mon 11/10/21	Fri 4/3/22 Fri 24/12/21	Lift installation
struction of RC plinth, kerbs & parapet Walls tion of Skylight & Roof Features	40 days 50 days	Sat 20/11/21 Fri 26/11/21	Wed 29/12/21 Fri 14/1/22	
erproofing & Flooring at Roof W Works	34 days 100 days	Thu 30/12/21 Fri 8/10/21	Thu 17/2/22 Sat 15/1/22	Flooring at Roof
ling 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	Building Services Works Idding, Windows and Louvres incl. roof feature
oval of external scaffolding Illation of Catwalk at south elevation	90 days 26 days	Wed 1/12/21 Mon 31/1/22	Mon 28/2/22 Tue 1/3/22	Removal of external scaffolding Installation of Catwalk at south elevation
ding, ABWF & BS Works oval of tempoary works & clearance for plant erection contractor	30 days 30 days	Wed 2/3/22 Sun 30/1/22	Thu 31/3/22 Mon 28/2/22	Cladding, ABWF & BS Works (Removal 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	B 493 days	Fri 4/12/20	Sun 10/4/22	c D(v) 9-40 Apr '22
Consent etting / Fabrication / Delivery (For BS and ABWF)	0 days 250 days	Fri 4/12/20 Fri 25/12/20	Fri 4/12/20 Tue 31/8/21	
ring Works and plant set-up nantle of north scaffold for link bridge erection	30 days 0 days	Fri 3/12/21 Tue 25/1/22	Sat 1/1/22 Tue 25/1/22	
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	
tion of link bridge structural steel ing of bridge deck Il roofing installation	11 days 24 days	Tue 1/2/22 Sat 12/2/22	Fri 11/2/22 Mon 7/3/22	Metal roofing installation
F work Vorks	30 days 20 days	Sun 20/2/22 Tue 22/3/22	Mon 21/3/22 Sun 10/4/22	ABWF work BS Works
vorks by for power cable laying work by others on D - (ii) No. 5 Chimney with L12 Steel Flue Liner	0 days 810 days	Sun 10/4/22 Fri 1/1/21	Sun 10/4/22 Sun 10/4/22 Tue 21/3/23	Ready for power cable laying work by others
Possession & Clearance	45 days	Fri 1/1/21	Sun 14/2/21	
etting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment) vation & Pile Cap & Backfill	120 days 90 days	Fri 8/1/21 Sat 2/1/21	Fri 7/5/21 Thu 1/4/21	
er Crane erection struction of Wind Shiled + clearance for internal floors and flue+Ground slab	30 days 308 days	Tue 11/5/21 Fri 2/4/21	Wed 9/6/21 Mon 4/4/22	Construction of Wind Shilled + clearance for Internal floors and flue+Ground sl
ctural steel fabrication & Delivery for floors and staircase tion of steel floors	201 days 79 days	Mon 3/1/22 Tue 19/4/22	Fri 22/7/22 Wed 6/7/22	
struction of G/F room incl. Microwave Antenna Rm struction of 1/F RC slab	45 days 8 days	Thu 7/7/22 Sat 13/8/22	Sat 20/8/22 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	-
oval of tower Crane I Flue fabrication and delivery	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 k install steel flue liner + cladding works	60 days 161 days	Tue 5/7/22 Thu 28/7/22	Fri 2/9/22 Wed 4/1/23	
Installation Illation Louvre & Doors	100 days 30 days	Mon 12/12/22 Thu 5/1/23	Tue 21/3/23 Fri 3/2/23	
works, Demobilization and ready for gas duct connection on D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for	17 days 102 days	Thu 5/1/23 Thu 5/1/23 Tue 1/3/22	Sat 21/1/23 Fri 10/6/22	
ation of microwave and antenna ation of microwave antenna Room and Chimney Windshield for ation of microwave Antenna Room	0 days	Tue 1/3/22	Tue 1/3/22	Completion of Microwave Antenna Room
pletion of Microwave Antenna Hoom aining ABWF & BS Works In E - (i) Administration and Control Building (Transformer Room)	100 days	Thu 3/3/22	Fri 10/6/22	
Possession & Clearance + BD consent	332 days 60 days	Fri 4/12/20 Fri 4/12/20	Sun 31/10/21 Mon 1/2/21	
etting / Fabrication / Delivery (For Civil+BS+ABWF) vation works	100 days 45 days	Tue 2/2/21 Fri 4/12/20	Wed 12/5/21 Sun 17/1/21	
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 /F at G/F	69 days 52 days	Sat 12/6/21 Fri 10/9/21	Thu 19/8/21 Sun 31/10/21	_
n E (ii) Handover G/F, 1/F, 2/F & Hoisting Well ring Works and plant set-up	452 days 21 days	Fri 4/12/20 Sun 31/10/21	Mon 28/2/22 Sat 20/11/21	<mark>-</mark>
etting / Fabrication / Delivery (For NSC Lift)	180 days 25 days	Sun 3/1/21 Sat 14/8/21	Sat 31/7/21 Mon 13/9/21	
struction of RC up to 2/F incl. staircases	Z;1 (lavs			
struction of RC up to 2/F incl. staircases struction of RC up to 3/F incl. staircases poary Hoist erection	20 days 20 days 14 days	Thu 2/9/21 Wed 22/9/21	Tue 21/9/21 Tue 5/10/21	

PaulY

Contract No. 19/83002 Lamma Power Station Extensi	on Civil and Building V	Works for U	nit L12		r Programme
ID Task Name 281 Construction of RC up to R/F incl. staircases	Duration 25 days	Start Thu 30/9/21	Finish Sun 24/10/21	Mar Apr	May
282 Construction of RC up to UR/F 283 Construction of RC up to UR/F	21 days 21 days 21 days	Mon 25/10/21 Mon 15/11/21	Sun 14/11/21 Sun 5/12/21		
284 External Wall Finish, Cladding + Windows and Louvres + Features 285 ABWF at 1/F	138 days 95 days	Thu 30/9/21 Fri 8/10/21	Mon 14/2/22 Mon 10/1/22	ladding + Windows and Louvres + Features	
286 ABWF at 2/F 287 Building Services Works at G/F, 1/F, 2/F & Hoisting Well	96 days 147 days	Fri 15/10/21 Tue 5/10/21	Tue 18/1/22 Mon 28/2/22	-Building Services Works at G/F, 1/F, 2/F & Hoisting Well	
288 Section E (iii) Whole of Administration and Control Building 289 Subletting / Fabrication / Delivery (For BS+ABWF)	544 days 127 days	Fri 4/12/20 Sat 23/10/21	Tue 31/5/22 Sun 20/3/22	Subletting / Fabrication / Delivery (For BS+ABWF)	
290 Construction of New UG Grey Water Tank 291 Submission of WW046 for commencement	60 days 60 days	Mon 20/3/23 Wed 19/1/22	Thu 18/5/23 Sat 19/3/22	Submission of WW046 for commencement	
292 ABWF at 3/F 293 ABWF at 4/F	120 days 90 days	Mon 25/10/21 Wed 24/11/21	Mon 21/2/22 Mon 21/2/22	F	
294 ABWF at R/F 295 ABWF at UR/F + Lift Machine Room	60 days 45 days	Wed 15/12/21 Wed 5/1/22	Sat 12/2/22 Fri 18/2/22	Lift Machine Room	
296 Bridge Erection & Connection 297 Installation of Raised floors	28 days 60 days	Mon 7/2/22 Fri 7/1/22	Mon 28/3/22 Fri 29/4/22	Bridge-Erection & Connection Installation of Raise	d floors
298 Removal of external scaffolding 299 Waterproofing & screeding	39 days 60 days	Mon 24/1/22 Mon 6/12/21	Wed 9/3/22 Thu 3/2/22	Removal of external scaffolding	
300 Removal of Tower Crane 301 External utilities and road work	7 days 45 days	Thu 10/3/22 Tue 8/2/22	Wed 16/3/22 Thu 14/4/22	Removal of Tower Crane External utilities and road work	
302 Building Services Works 303 False ceiling after BS works	160 days 54 days	Tue 7/12/21 Tue 29/3/22	Sun 15/5/22 Sat 21/5/22	· · · · · · · · · · · · · · · · · · ·	False ceiling af
304 Submission of WW046 for completion 305 Submission of FS inspection	30 days 14 days	Wed 9/3/22 Fri 13/5/22	Thu 7/4/22 Thu 26/5/22	Submission of WW046 for completion	Submi
Submisision for OP Inspection Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Ro	14 days com (GRS) Area 548 days	Wed 18/5/22 Tue 1/6/21	Tue 31/5/22 Wed 30/11/22		
Extension at Area F14 308 Area Possession & Clearance + BD consent	90 days	Tue 1/6/21	Sun 29/8/21		
309 Subletting / Fabrication / Delivery 310 Installation of pipe pile at north of GRS (VO)	30 days 134 days	Tue 22/6/21 Mon 5/7/21	Wed 21/7/21 Mon 15/11/21		
311 Construction Equipment room extension 312 Modification of existing drainage	145 days 45 days	Sun 31/10/21 Fri 25/3/22	Thu 24/3/22 Sun 8/5/22		ification of existing drainage
313 Excavation & earthing for Skid foundations 314 Construction of Skid foundation	21 days 45 days	Mon 9/5/22 Mon 30/5/22	Sun 29/5/22 Wed 13/7/22		<u> </u>
315 Construct underground utilities and drainage 316 Backfill and road works	45 days 60 days	Thu 14/7/22 Sun 28/8/22	Sat 27/8/22 Wed 26/10/22		
317 Relocate / install new fencing for completion 318 Mis. Work and ready for OP inspection	21 days 14 days	Thu 27/10/22 Thu 17/11/22	Wed 16/11/22 Wed 30/11/22		
319 Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B 320 BD consent + Site Possession at Area F9A & F9B	515 days 90 days	Sat 2/1/21 Sat 2/1/21	Tue 31/5/22 Thu 1/4/21	c E2	
321 Excavation & Plate load test 322 Construction new footing for pipe rack	30 days 30 days	Mon 1/11/21 Wed 1/12/21	Tue 30/11/21 Thu 30/12/21		
232 Underground utilities and road works for completion 324 Structural Steel fabrication & Delivery	11 days 90 days	Thu 31/3/22 Sat 2/10/21	Tue 31/5/22 Thu 30/12/21	***************************************	
325 Ercetion of new pipe rack 326 Mis. Work and ready for OP inspection	70 days 21 days	Fri 31/12/21 Wed 11/5/22	Thu 10/3/22 Tue 31/5/22	-Ercetion of new pipe rack	
wis. Work and leady to Chrispection 7 Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at a Area Possession & Clearance + BD consent		Tue 1/6/21 Tue 1/6/21	Wed 31/8/22 Sun 29/8/21	cE3	
Area Possession & Clearance + BD consent Subletting / Fabrication / Delivery For ABWF + BS Installation of Sheet Pile (VO)	90 days 150 days 85 days	Wed 2/6/21 Tue 1/6/21	Fri 29/10/21 Tue 24/8/21		
Installation of Sheet Pile (VO)	28 days	Wed 25/8/21 Wed 22/9/21	Tue 24/8/21 Tue 21/9/21 Thu 21/10/21		
Excavation & Plate load test 333 Construction new footing for equipment room 334 Superstructure for equipment room	30 days 68 days	Wed 22/9/21 Thu 23/12/21 Tue 1/3/22	Mon 28/2/22 Fri 29/4/22	Construction new footing for equipment room Superstructure for e	quipment room
334 Superstructure for equipment room 335 ABWF Works 336 BS Works	60 days 45 days	Sat 30/4/22	Mon 13/6/22	- Supersulture for a	
Construction RC Wall & plinths & drainage at Chlorinator area	30 days 45 days	Wed 1/6/22 Wed 30/3/22 Sat 14/5/22	Thu 30/6/22 Fri 13/5/22 Sun 12/6/22		Construction RC Wall & plint
Sas External wall finish & remove scaffolding Excavation & Plate load test for pipe rack extension (For F45-47 & F49) Construction new footing for pipe rack (For F45-47 & F49)	30 days 30 days 45 days	Sat 14/5/22 Sat 16/10/21 Mon 15/11/21	Sun 12/6/22 Sun 14/11/21 Wed 29/12/21		*
341 Underground utilities and road works for completion	60 days	Thu 30/12/21	Sun 27/2/22	Juderground utilities and road works for completion #Structural Steel fabrication & Delivery	
343 Backfilling and prepare for steel erection	90 days 12 days	Sun 12/12/21 Mon 28/2/22	Fri 11/3/22 Fri 11/3/22	Backfilling and prepare for steel erection Excavation & Plate Load test for pipe rack extens	tion (For E48 E56)
Construction of new footing for pipe rak (For F48 & F56)	14 days 14 days	Wed 30/3/22 Wed 13/4/22	Tue 12/4/22 Tue 26/4/22		ing for pipe rak (For F48 & F56)
Erection of new pipe rack (For F45-47 & F49)	65 days 70 days	Tue 3/5/22 Sat 12/3/22	Wed 6/7/22 Fri 20/5/22		Erection of new p
Section G (i) - External Work surrounding Area F11	56 days 145 days	Thu 7/7/22 Sat 4/6/22	Wed 31/8/22 Wed 26/10/22		4 Jun
350 Area Possession & Clearance after handover from No. 5 Intake Contractor 351 Subletting / Fabrication / Delivery	30 days 30 days	Sat 4/6/22 Sat 4/6/22	Sun 3/7/22 Sun 3/7/22		
Submission WWO046 for commencement Submission WWO046 for commencement Construct Underground utilities and drainage Construct Underground utilities and drainage Construct Underground utilities Constr	30 days 30 days	Sat 4/6/22 Mon 20/6/22	Sun 3/7/22 Tue 19/7/22		
354 Install new FS Hydrant 355 Submission WWO046 for completeion	20 days 30 days	Mon 20/6/22 Sat 30/7/22	Sat 9/7/22 Sun 28/8/22		
356 Construction Road extension 357 Construction road paving and install fencing	58 days 30 days	Sat 30/7/22 Mon 26/9/22	Sun 25/9/22 Tue 25/10/22		
358 Ready for OP inspection 359 Section G (ii) - External Works at Area F12 & F13	14 days 666 days	Thu 13/10/22 Fri 4/12/20	Wed 26/10/22 Fri 30/9/22	cE4	
360 Area Possession & Clearance after handover from other 361 Subletting / Fabrication / Delivery	45 days 180 days	Fri 4/12/20 Thu 4/3/21	Sun 17/1/21 Mon 30/8/21		
362 Excavation 363 Submission WWO046 for commencement	21 days 30 days	Sat 23/10/21 Sat 13/11/21	Fri 12/11/21 Sun 12/12/21		
364 Construct Underground utilities and drainage 365 Install new FS Hydrant	90 days 30 days	Mon 13/12/21 Sun 13/3/22	Sat 12/3/22 Mon 11/4/22	Construct Underground utilities and drainage	
366 Submission WWO046 for completion 367 Construction Road extension	30 days 127 days	Tue 12/4/22 Thu 12/5/22	Wed 11/5/22 Thu 15/9/22	The state of the s	Submission WWO046 for comple
Complete with Mis. Works for completion Section G (iii) - FS Modification works along South Seafront Road at Area F15	15 days 183 days	Fri 16/9/22 Fri 1/4/22	Fri 30/9/22 Fri 30/9/22	1 Apr '22	
370 Area Possession & Clearance after handover from other 371 Subletting / Fabrication / Delivery	45 days 21 days	Fri 1/4/22 Fri 1/4/22	Sun 15/5/22 Thu 21/4/22	Subletting / Fabrication / Delivery	Area Possession & Cleara
372 Temporary Traffice Arrangement approval 373 Utilities scanning and expose existing FS	14 days 14 days	Fri 1/4/22 Fri 15/4/22	Thu 14/4/22 Thu 28/4/22	Temporary Traffice Arrangement approval	expose existing FS
374 Determine new FS alignment 375 Submission to FSD	21 days 14 days	Fri 29/4/22 Fri 20/5/22	Thu 19/5/22 Thu 2/6/22		Determine new FS
376 Modification of FS 377 Backfill and reinstatment + report to FSD	60 days	Fri 3/6/22 Tue 2/8/22	Mon 1/8/22 Fri 30/9/22		^
378 Section G (iv) - 275kV cable trenches and External Works at Area F16 379 Area Possession & Clearance	518 days 60 days	Sat 1/5/21 Sat 1/5/21	Fri 30/9/22 Tue 29/6/21	c.E4	
Area Possession & Clearance Subletting / Fabrication / Delivery 381 Temporary Traffice Arrangement approval	210 days 60 days	Wed 17/11/21 Sat 1/5/21	Tue 14/6/22 Tue 29/6/21		
7 Femporary Traines Arangement approval 28 Removal of aboveground services 383 Utilities scanning and expose exising UU	60 days 30 days	Wed 30/6/21 Sun 29/8/21	Sat 28/8/21 Mon 27/9/21		
Utilities scanning and expose exising OU Arrange of diversion existing UG utilities 385 Construct new cable trenches	90 days 173 days	Tue 28/9/21 Mon 27/12/21	Sun 26/12/21 Fri 17/6/22		
See Sealigment / install new UG utilities Section 1 Seakfill and reinstale & ready for cable laying by others	60 days 45 days	Sat 18/6/22 Wed 17/8/22	Tue 16/8/22 Fri 30/9/22		
Section G (v) - Shunt Reactor Compound and External Works at Area F17 Temporary Traffice Arrangement approval	666 days 45 days	Fri 4/12/20 Fri 4/12/20	Fri 30/9/22 Fri 30/9/22 Sun 17/1/21	cE4	
939 Subletting / Fabrication / Delivery 931 BD approval & consent for pipe pile installation	100 days 90 days	Fri 4/12/20 Fri 25/12/20 Fri 4/12/20	Sat 3/4/21 Wed 3/3/21		
BD approval & consent for pipe pile installation 392 Area Possession & Clearance 393 Removal of aboveground services	14 days 21 days	Thu 4/3/21 Thu 18/3/21	Wed 3/3/21 Wed 17/3/21 Wed 7/4/21		
393 Hemoval of aboveground services 394 Utilities scanning and expose exising UU 395 Arrange of diversion existing UG utilities	21 days 15 days 45 days	Thu 18/3/21 Thu 8/4/21 Fri 23/4/21	Wed 7/4/21 Thu 22/4/21 Sun 6/6/21		
Arrange of diversion existing UG utilities 396 Install pipe piles 397 BA14 for pipepile and BD consent for ELS	45 days 61 days 28 days	Sun 23/5/21 Fri 23/7/21	Thu 22/7/21 Thu 19/8/21		
398 Excavation & install earthing	35 days	Fri 20/8/21 Fri 24/9/21	Thu 23/9/21		
399 Construct Pile Caps and Tie Beams 400 Backfill & Erect scaffold 401 Construction of SRC Walls	45 days 21 days	Mon 8/11/21	Sun 7/11/21 Sun 28/11/21 Fri 11/2/22		
Wall finish and remove scaffolding	75 days 24 days	Mon 29/11/21 Sat 12/2/22	Mon 7/3/22	Wall finish and remove scaffolding	ct new cable trenches
Install new UG Utilties, Backfill and reinstate & ready for cable laying by Others for DAX1	60 days 55 days	Tue 8/3/22 Thu 7/4/22 Sat 7/5/22	Fri 6/5/22 Tue 31/5/22 Wed 31/8/22	Constru	
Backfill and reinstate & ready for cable laying by others (for DAX2, APX1, & APX3)	117 days 30 days	Sat 7/5/22 Thu 1/9/22	Wed 31/8/22 Fri 30/9/22	CE4	
Temporary Traffice Arrangement approval	397 days 45 days	Sat 1/5/21 Sat 1/5/21	Wed 1/6/22 Mon 14/6/21		
409 Subletting / Fabrication / Delivery 410 Area Possession & Clearance 411 Bemoval of aboverground services	60 days 15 days	Tue 15/6/21 Sat 1/5/21	Fri 13/8/21 Sat 15/5/21		
412 Utilities scanning and expose exising UU	30 days 45 days	Sun 16/5/21 Tue 15/6/21	Mon 14/6/21 Thu 29/7/21		
414 Construct new cable trenches	60 days 172 days	Fri 30/7/21 Tue 28/9/21	Mon 27/9/21 Fri 18/3/22	Construct new cable trenches	stall new UG utilities
Backfill and reinstate & ready for cable laying by others	45 days 30 days	Sat 19/3/22 Tue 3/5/22	Mon 2/5/22 Wed 1/6/22	- Realignent in	
Area Possession & Clearance	521 days 30 days	Fri 4/12/20 Fri 4/12/20	Sun 8/5/22 Sat 2/1/21		ay 22
419 Subletting / Fabrication / Delivery 420 Temporary Traffice Arrangement approval	60 days 300 days	Fri 25/12/20 Fri 4/12/20	Mon 22/2/21 Wed 29/9/21		
421 ELS BD approval & consent 422 Demolition of existing carriageway	90 days 30 days	Fri 18/12/20 Thu 11/11/21	Wed 17/3/21 Fri 10/12/21		
423 Removal of aboveground services 424 Utilities scanning and expose exising UU	21 days 21 days	Thu 30/9/21 Thu 21/10/21	Wed 20/10/21 Wed 10/11/21		
425 Arrange of diversion existing UG utilities 426 Excavation and construction of new Flood wall	30 days 65 days	Sat 11/12/21 Mon 10/1/22	Sun 9/1/22 Tue 15/3/22	Excavation and construction of new Flood wall	
427 Realigment / install new UG utilities 428 Backfill and construct new carriageway	30 days 18 days	Wed 16/3/22 Fri 15/4/22	Thu 14/4/22 Mon 2/5/22	7	nstruct new carriageway
429 Mis. Work for completion 430 Section G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	6 days 365 days	Tue 3/5/22 Fri 1/10/21	Sun 8/5/22 Fri 30/9/22	Mis.	Work for completion
431 Area Possession & Clearance 432 Subletting / Fabrication / Delivery	45 days 90 days	Fri 1/10/21 Fri 22/10/21	Sun 14/11/21 Wed 19/1/22		
433 Temporary Traffice Arrangement approval 434 ELS BD approval & consent	14 days 90 days	Fri 1/10/21 Fri 15/10/21	Thu 14/10/21 Wed 12/1/22		
MACTER PROOF MALE					
Rev 1-B 23 Aug 2021 Paul Y Task Split	····· Milestone ♦ Summary	, -			

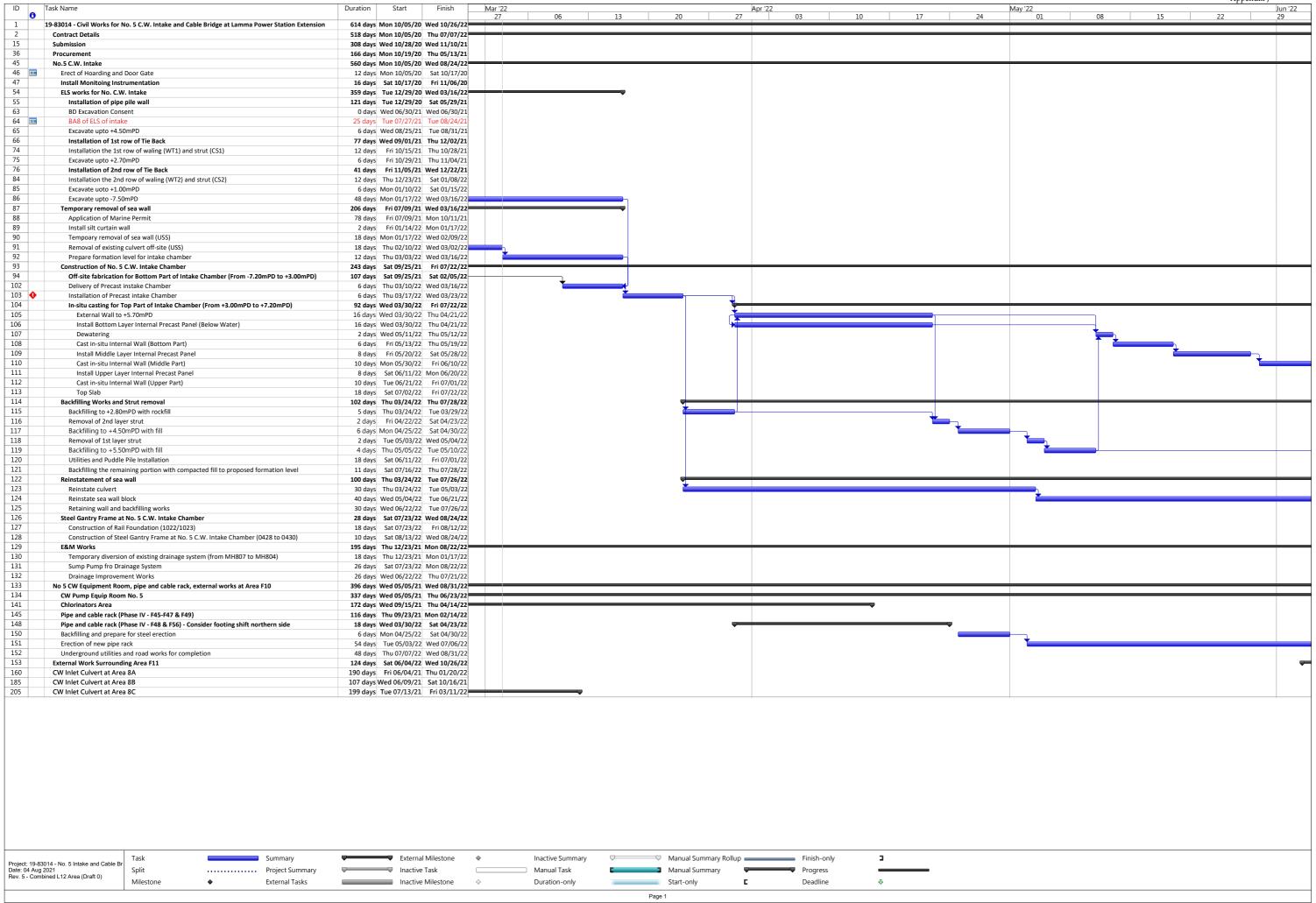
ame	Duration 60 days	Start	Finish Mon 20/11/21	Mar Apr May
Demolition of existing carriageway Removal of aboveground services Itilities examping and express existing LILL	60 days 21 days	Fri 1/10/21 Tue 30/11/21	Mon 29/11/21 Mon 20/12/21 Mon 10/1/22	
Utilities scanning and expose exising UU urrange of diversion existing UG utilities stall Sheetbiles	21 days 30 days 55 days	Tue 21/12/21 Tue 11/1/22 Thu 10/2/22	Mon 10/1/22 Wed 9/2/22 Tue 5/4/22	Gutilities Install Sheetoiles
A14 for sheetpile and BD consent for ELS	28 days	Wed 6/4/22	Tue 3/5/22	BA14 for sheetpile and BD consent
xcavation and construction of new Flood wall ealigment / install new UG utilities ackfill and construct new carriageway	90 days 30 days 21 days	Wed 4/5/22 Tue 2/8/22 Thu 1/9/22	Mon 1/8/22 Wed 31/8/22 Wed 21/9/22	
ackilli and constitut new carriageway list. Work for completion tion G (tx) - Bund wall modification works at South Seafront Road at Area F21	9 days 316 days	Thu 1/9/22 Thu 22/9/22 Fri 4/12/20	Fri 30/9/22 Fri 15/10/21	
rion (1x) - Bullo Wall infollitication works at South Seanont Road at Alea F21 rea Possession & Clearance ubletting / Fabrication / Delivery	45 days 90 days	Fri 4/12/20 Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Wed 24/3/21	
ubletting / Fabrication / Delivery emporary Traffice Arrangement approval LS BD approval & consent	165 days 0 days	Fri 4/12/20 Thu 17/12/20	Mon 17/5/21 Thu 17/12/20	
LS BD approval a consent emolition of existing carriageway emoval of aboveground services	14 days 14 days	Tue 18/5/21 Tue 1/6/21	Mon 31/5/21 Mon 14/6/21	
tilities scanning and expose exising UU	21 days	Tue 15/6/21 Tue 6/7/21	Mon 5/7/21 Sat 14/8/21	
rrange of diversion existing UG utilities (include FS pipe under 17/8002) xcavation and expose existing bund wall & demolish onstruction new bund wall for road junction	40 days 18 days 21 days	Wed 28/7/21 Sat 4/9/21	Sat 14/8/21 Sat 14/8/21 Fri 24/9/21	
lealigment / install new UG utilities (include FS pipe under 17/8002)	60 days	Sun 1/8/21	Wed 29/9/21	
ackfill and construct new carriageway lis. Work for completion	16 days 5 days	Thu 30/9/21 Mon 11/10/21	Fri 15/10/21 Fri 15/10/21	
ction G (x) - DAX Cable Diversion Works (from Part I to Part IV) emporary Traffice Arrangement approval	758 days 14 days	Fri 4/12/20 Fri 4/12/20	Sat 31/12/22 Thu 17/12/20	
ubletting / Fabrication / Delivery rea Possession & Clearance	90 days 45 days	Fri 25/12/20 Fri 4/12/20	Wed 24/3/21 Sun 17/1/21	
lentification of existing cable trench art 1 Re-excavation works incl.construction of joint bay (at Water Reservoir Road)	7 days 246 days	Mon 18/1/21 Mon 25/1/21	Sun 24/1/21 Mon 27/9/21	
art 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	310 days	Mon 25/1/21	Tue 30/11/21	-Part 2 Re-excavation works incl. joint bay
art 2 Re-excavation works incl. joint bay art 3 Re-excavation works incl. joint bay	120 days 242 days	Mon 1/11/21 Mon 1/11/21 Sat 1/10/22	Mon 28/2/22 Thu 30/6/22 Sat 31/12/22	at 2 1 ocaseauti wine iid. juin vay
rart 4 Re-excavation works incl. joint bay & new oil tank pits lackfill & Reinstatement Part 1 lackfill & Reinstatement Part 2	92 days 61 days	Mon 1/11/21	Fri 31/12/21	
lackfill & Reinstatement Part 3	61 days 61 days	Sun 1/5/22 Thu 1/9/22	Thu 30/6/22 Mon 31/10/22	
ction H - All remaining works shall be completed for reporting completion to BD and ready for OP pection (PS1.4.4)	775 days	Wed 17/11/21	Sun 31/12/23	
leferred works (MSB & HRSG) Listed in PS 1.4.4 Construction of L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the	272 days 38 days	Wed 17/11/21 Wed 17/11/21	Mon 15/8/22 Fri 7/1/22	c crane installation by the Employer's Specialist Contractors
Employer's Specialist Contractors Construction of walls off.12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircases including the property walls between G/E and 1/E. The Contractor shall allow access for the Employer's Specialist.	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	04.1	M. Areser	0 00.72.75	
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 Façade at	21 days 30 days	Mon 6/6/22 Sat 16/4/22	Sun 26/6/22 Sun 15/5/22	Construction of
1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable	92 days	Mon 16/5/22	Mon 15/8/22	
shelter at Transformer Area eferred works (DAX1 and DAX2) Listed in PS 1.4.4 Paddillips of the la DAX1 and DAX2 is a part of the land o	334 days	Wed 1/2/23	Sun 31/12/23	
Backfilling of whole DAXI compartment inside existing joint bay "STJI2" and the new oil tank pit A located aside existing joint bay "STJI2".	59 days	Wed 1/2/23	Fri 31/3/23	
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 existing to the compartment between the compartment inside existing in the compartment in	61 days 61 days	Tue 1/8/23 Wed 1/11/23	Sat 30/9/23 Sun 31/12/23	-
existing joint bay "STJI2". eferred works (External Work) Listed in PS 1.4.4	121 days	Thu 1/12/22	Fri 31/3/23	
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	
Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.	90 days	Sun 1/1/23	Fri 31/3/23	
Backfilling and road-reinstatement of 275kV cable trenches All Remaining work ready for OP inspection	90 days 0 days	Sun 1/1/23 Tue 28/2/23	Fri 31/3/23 Tue 28/2/23	
TUTORY SUBMISSION, INSPECTION & APPROVAL D 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	
VSD : Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage) VSD: 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	VD 046 Part I and II Submission
/SD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building /SD: Prepare for 1st Amendment for Plumbing Plan	0 days 60 days	Tue 15/2/22 Tue 15/2/22	Tue 15/2/22 Fri 15/4/22	NWWO 046 Part III by WSD - FOR ACB Building —WSD: Prepare for 1st Amendment for Plumbing Plan
VSD: Submit to WSD 1st Amendment for Plumbing Plan VSD: Vetting of Plumbing Plan by WSD	0 days 60 days	Fri 15/4/22 Sat 16/4/22	Fri 15/4/22 Tue 14/6/22	WSD: Submit to WSD 1st Amendment for Plumbing Plan
VSD: 1st Approval for Plumbing Plan by WSD VSD: Prepare and Submit for Final Amendment for Plumbing Plan	0 days 45 days	Tue 14/6/22 Wed 15/6/22	Tue 14/6/22 Fri 29/7/22	
VSD: Vetting and Final Approval for Plumbing Plan by WSD D 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	
proval VSD: Form WWO 046 Part IV Submission (FS)	0 days	Fri 29/7/22	Fri 29/7/22	
VSD: WSD Recieved Form WWO046 Part IV and arrange for inspection (FS) VSD: WSD Inspection (FS)	7 days 7 days	Sat 30/7/22 Sat 6/8/22	Fri 5/8/22 Fri 12/8/22	
VSD: WWO 046 Part V Endorsement by WSD (FS) VSD: WSD Processing Water Supply Connection Certificate (FS)	12 days 7 days	Sat 13/8/22 Thu 25/8/22	Wed 24/8/22 Wed 31/8/22	
VSD: Issue by WSD Water Supply Connection Certificate (FS) B Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission /	0 days? 60 days	Wed 31/8/22 Fri 19/8/22	Wed 31/8/22 Tue 18/10/22	
proval WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 19/8/22	Fri 19/8/22	
VSD: WSD Acknowledge Form WWO 046 VSD: 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	
VSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush) VSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	6 days 12 days	Wed 7/9/22 Tue 13/9/22	Mon 12/9/22 Sat 24/9/22	
VSD:Accredited Lab Testing Report of Sample to WSD VSD: Vetting of Test Report by WSD	12 days 6 days	Sun 25/9/22 Fri 7/10/22	Thu 6/10/22 Wed 12/10/22	
VSD: Issue of WWO 046 Part V (Fresh/Flush) VSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	0 days 6 days	Wed 12/10/22 Thu 13/10/22	Wed 12/10/22 Tue 18/10/22	
VSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush) SD LIFT Statutory Submission, Inspection and Approval	0 days 45 days	Tue 18/10/22 Sat 26/3/22	Tue 18/10/22 Mon 9/5/22	26 Mar '22 📦 💗 9 May '22
MSD: Submission of Lift Form LE5 to EMSD MSD: EMSD Makes arrangement for Lift Installation	12 days 5 days	Sat 26/3/22 Thu 7/4/22	Wed 6/4/22 Mon 11/4/22	EMSD: Submission of Lift Form LE5 to EMSD EMSD: EMSD Makes arrangement for Lift Installation
MSD: EMSD Inspection to Lift Installation MSD: Processing Lift Certificate (Form LE6)	14 days 14 days	Tue 12/4/22 Tue 26/4/22	Mon 25/4/22 Mon 9/5/22	EMSD: EMSD inspection to Lift installation EMSD: Processing Lift C
MSD: Lift Issuance of Form 6 (Lift Certificate) E Transformer Final Inspection	0 days 120 days	Mon 9/5/22 Thu 30/6/22	Mon 9/5/22 Thu 27/10/22	► EMSD: Lift Issuance of
X Room: Invite HKE For Transformer Room Inspection X Room: Give Access to Transformer Room for HKE Contractor	7 days 0 days	Thu 30/6/22 Wed 6/7/22	Wed 6/7/22 Wed 6/7/22	
X Room: Move-IN HKE Transformer Equipments X 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	
X Room: HKE Power Energization / Inspection X Room: Metering Installation	6 days 12 days	Mon 10/10/22 Sun 16/10/22	Sat 15/10/22 Thu 27/10/22	
X Room: HKE Power-ON Date D Drainage Completion Memo	0 days 65 days	Thu 27/10/22 Sun 2/10/22	Thu 27/10/22 Mon 5/12/22	
SD: CCTV Survey Report on Completed Drainage SD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit	30 days 7 days	Sun 2/10/22 Tue 1/11/22	Mon 31/10/22 Mon 7/11/22	
SD: Completed Drainage System including TMC Inspection/Technical Audit by DSD SD: Preparation of Drainage Connection Completion Memo by DSD	14 days 14 days	Tue 8/11/22 Tue 22/11/22	Mon 21/11/22 Mon 5/12/22	
SD: Issue of Drainage Connection Completion Memo by DSD O Submission, Inspection and Approval	0 days 60 days	Mon 5/12/22 Thu 30/6/22	Mon 5/12/22 Mon 29/8/22	
PD: License Application to EPD under APCO (Cap 311) for Generator Sets PD: 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	
PD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation VAC Statutory Submission, Inspection and Approval	0 days 150 days	Mon 29/8/22 Wed 20/7/22	Mon 29/8/22 Fri 16/12/22	
reparation of FSD VAC Drawings and Submission to HEC EC: Review and Approval	60 days 30 days	Wed 20/7/22 Sun 18/9/22	Sat 17/9/22 Mon 17/10/22	
reparation of VAC Drawings and Submission to FSD SD: Review and Approval	30 days 30 days	Tue 18/10/22 Thu 17/11/22	Wed 16/11/22 Fri 16/12/22	
Statutory Submission, Inspection and Approval esting 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	
SD: All Sections FS Ingration Test by NSC_BS SD: Completion of FS Integration Test by NSC_BS SD: 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	
SD: Submit Form 213/314 & Form 501 Request for Inspection SD: FSD Makes Arrangement for Inspection	0 days 0 days 7 days	Fri 28/4/23 Sat 29/4/23	Fri 28/4/23 Fri 5/5/23	
SD: FSD Inspection SD: Completion of FS Inspection	12 days 0 days	Sat 29/4/23 Sat 6/5/23 Wed 17/5/23	Wed 17/5/23 Wed 17/5/23	
SD: SDP Processing FS Certicate Form 172 SD: Issue of Fire Services FS Certificate Form 172	12 days 0 days	Thu 18/5/23 Mon 29/5/23	Mon 29/5/23 Mon 29/5/23	
CTICAL COMPLETION	216 days	Tue 30/5/23	Sun 31/12/23	
Inspection D: Application Form BA13 for OP Application	97 days 21 days	Tue 30/5/23 Tue 30/5/23	Sun 3/9/23 Mon 19/6/23	
D: BD Inspection Date D: Reinspection date with defects and rectification works	15 days 60 days	Tue 20/6/23 Wed 5/7/23	Tue 4/7/23 Sat 2/9/23	
D: Obtain Occupation Permit (OP) from BD Built Drawings & Handover Documentation	1 day 120 days	Sun 3/9/23 Wed 14/6/23	Sun 3/9/23 Wed 11/10/23	
repare and Submit As-Built Drawings & Handover Documentation leview and Approval	45 days 45 days	Wed 14/6/23 Sat 29/7/23	Fri 28/7/23 Mon 11/9/23	
s-Built Drawings & Handover Documentation - Revision by MC levised As-Built Drawings & Handover Documentation - Final Submission	30 days 0 days	Tue 12/9/23 Wed 11/10/23	Wed 11/10/23 Wed 11/10/23	
mpletion of the Whole Contract Works st Client Inspection for Review and Comments	119 days 30 days	Mon 4/9/23 Mon 4/9/23	Sun 31/12/23 Tue 3/10/23	
lefects and Rectification works nd Client Inspection	60 days 14 days	Wed 4/10/23 Sun 3/12/23	Sat 2/12/23 Sat 16/12/23	
	,-	Sun 17/12/23	Sun 31/12/23	

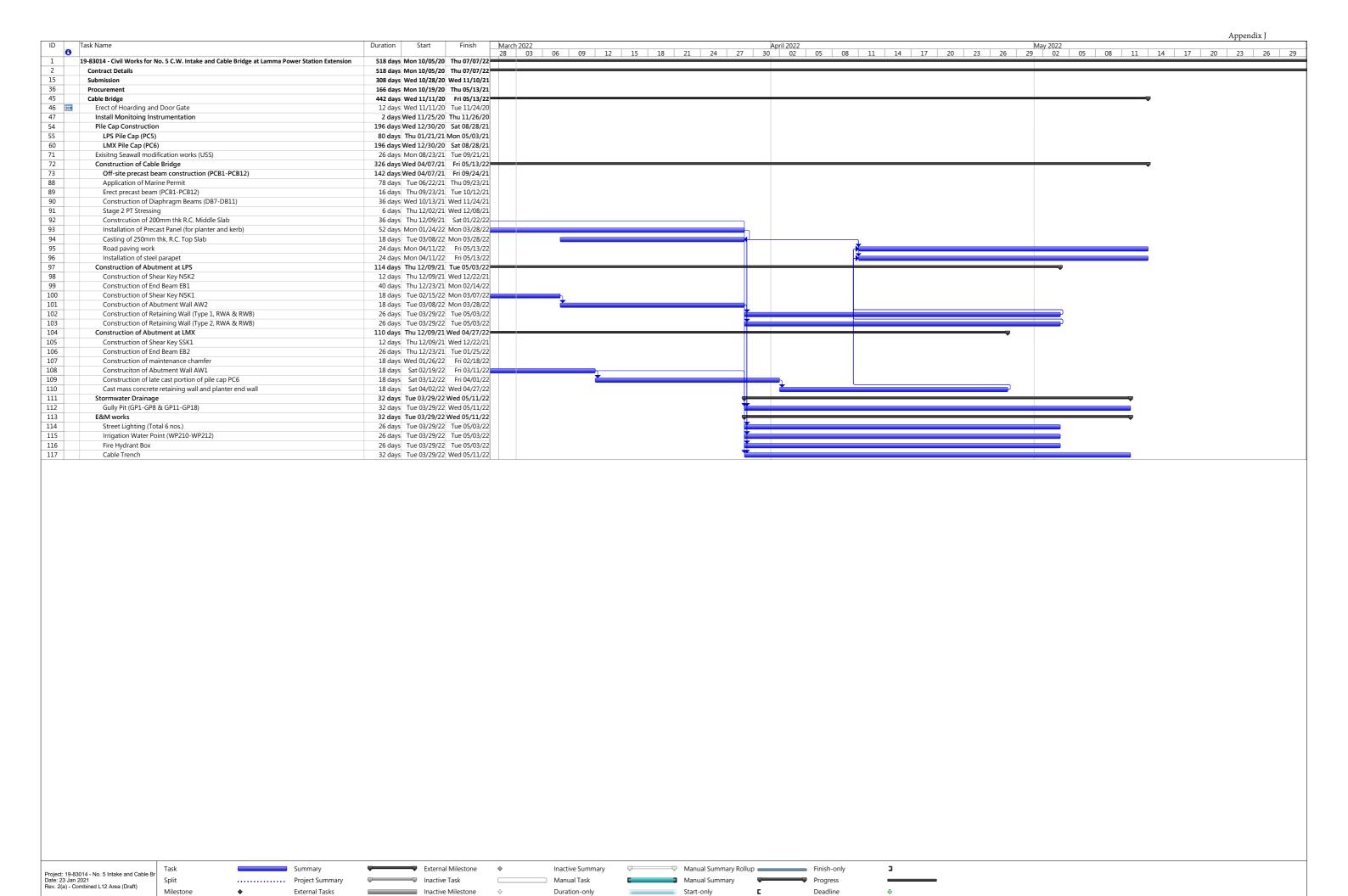
PaulY

MASTER PROGRAMME Rev 1-B 23 Aug 2021

Task Split Milestone ❖

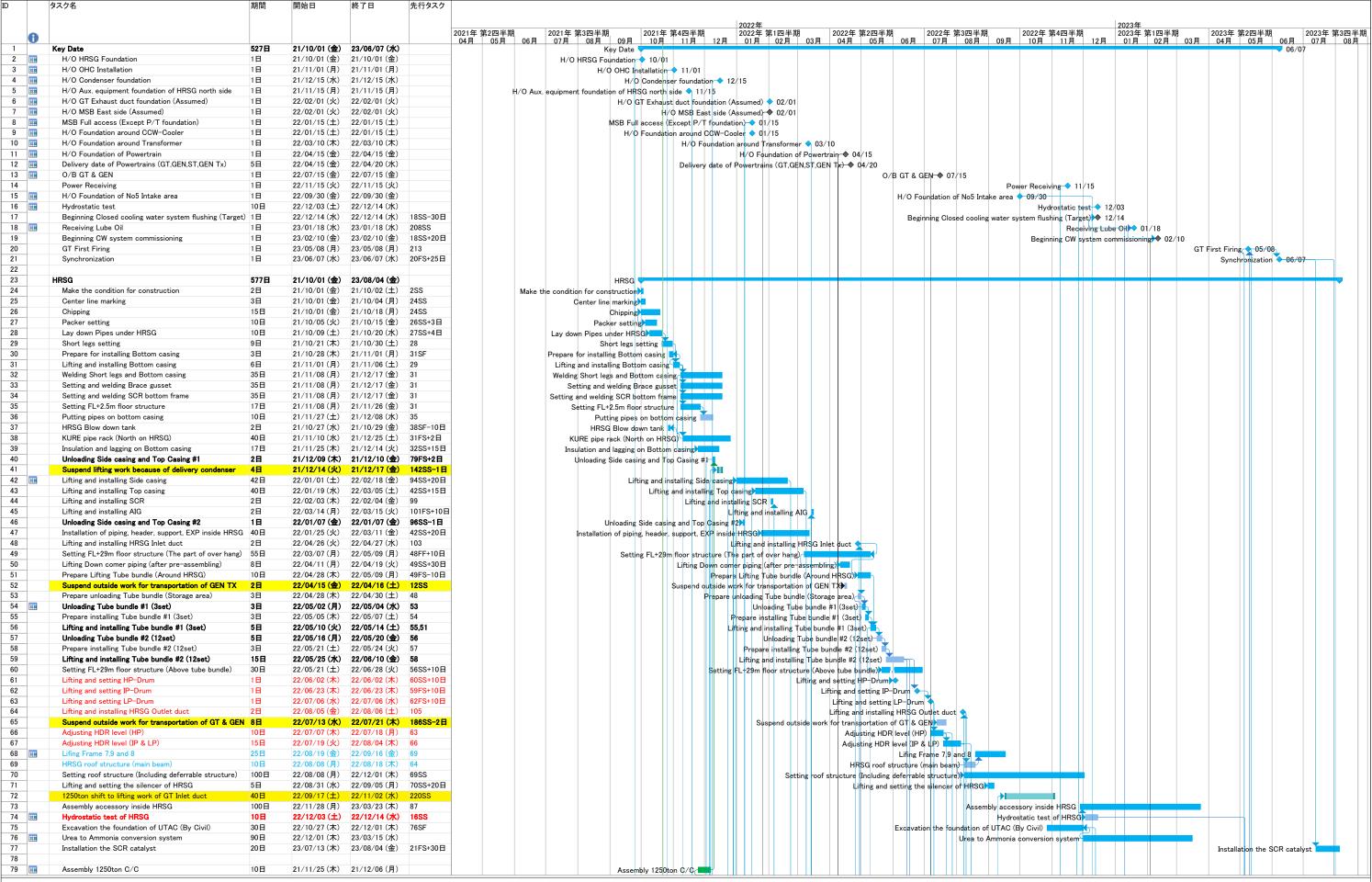
Summary -





Page 1

Appendix J 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 2022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3四半期 2023年 第1四半期 2023年 第2回半期 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) H/O HRSG Foundation



NOTE

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

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

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

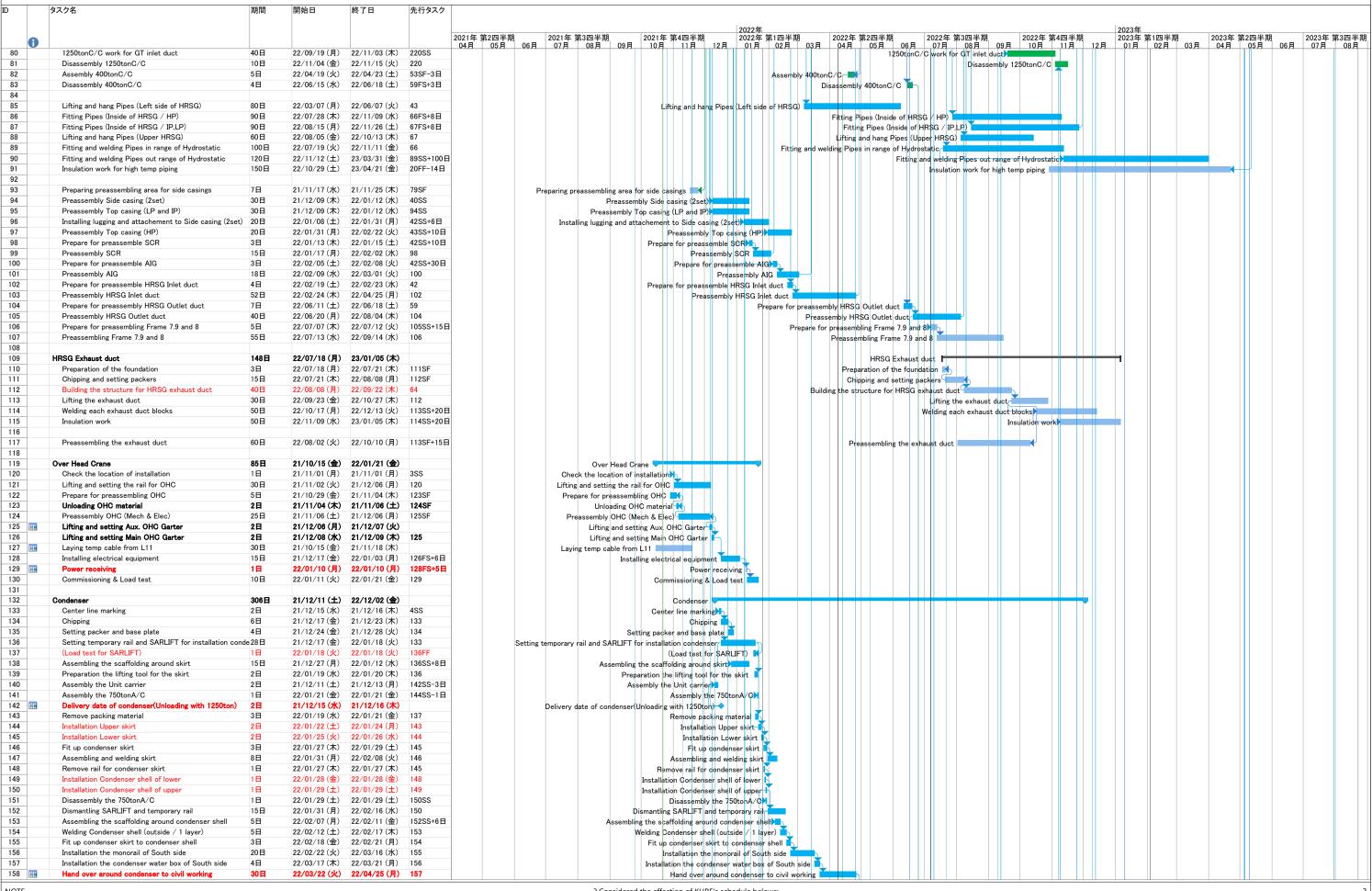
i) Because of delaying the side casing, installation Inlet duct is postponed.

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

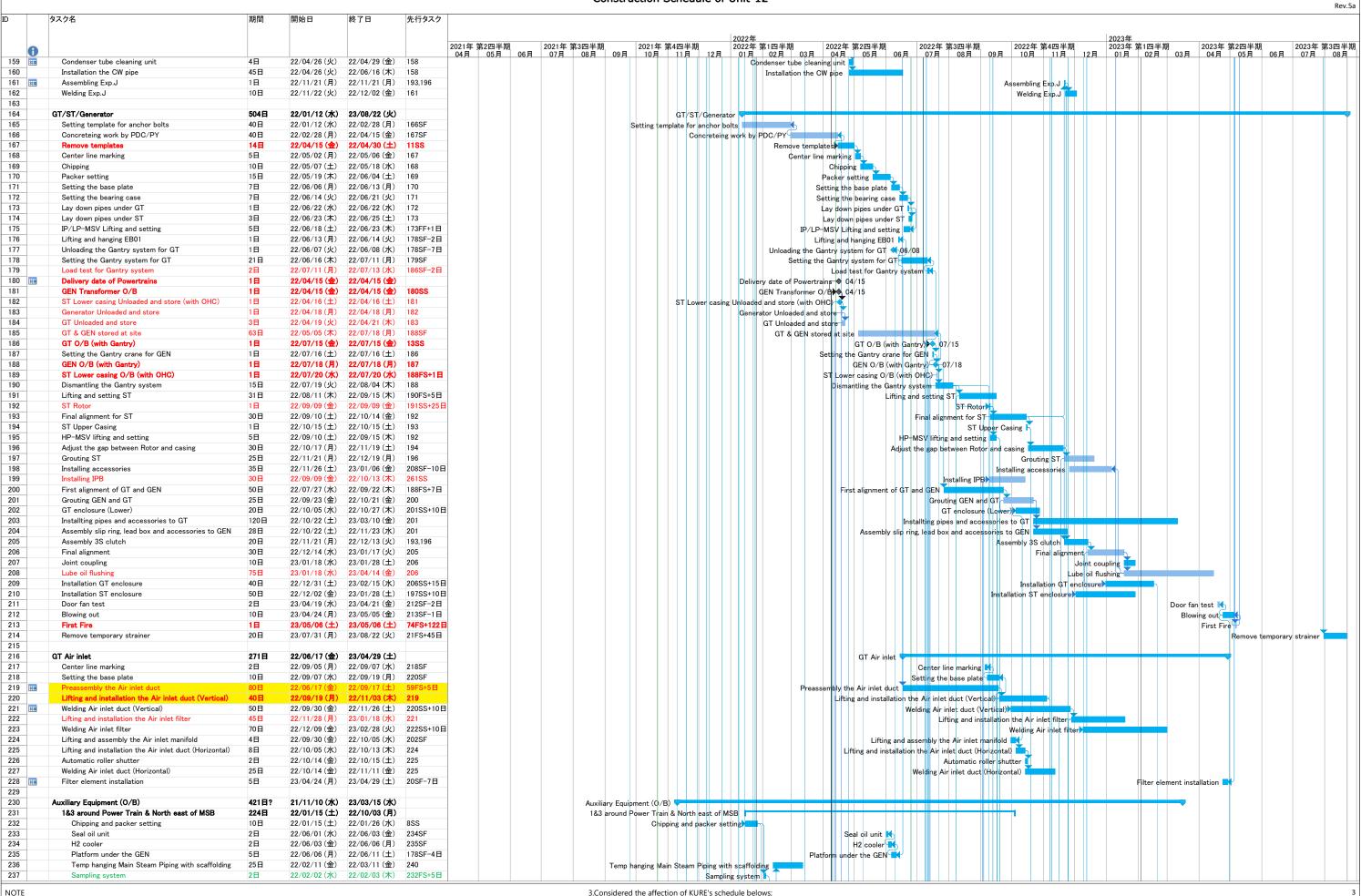


TAIHEI DENGYO KAISHA,LTD.

Construction Schedule of Unit-12

20th-Oct-2021

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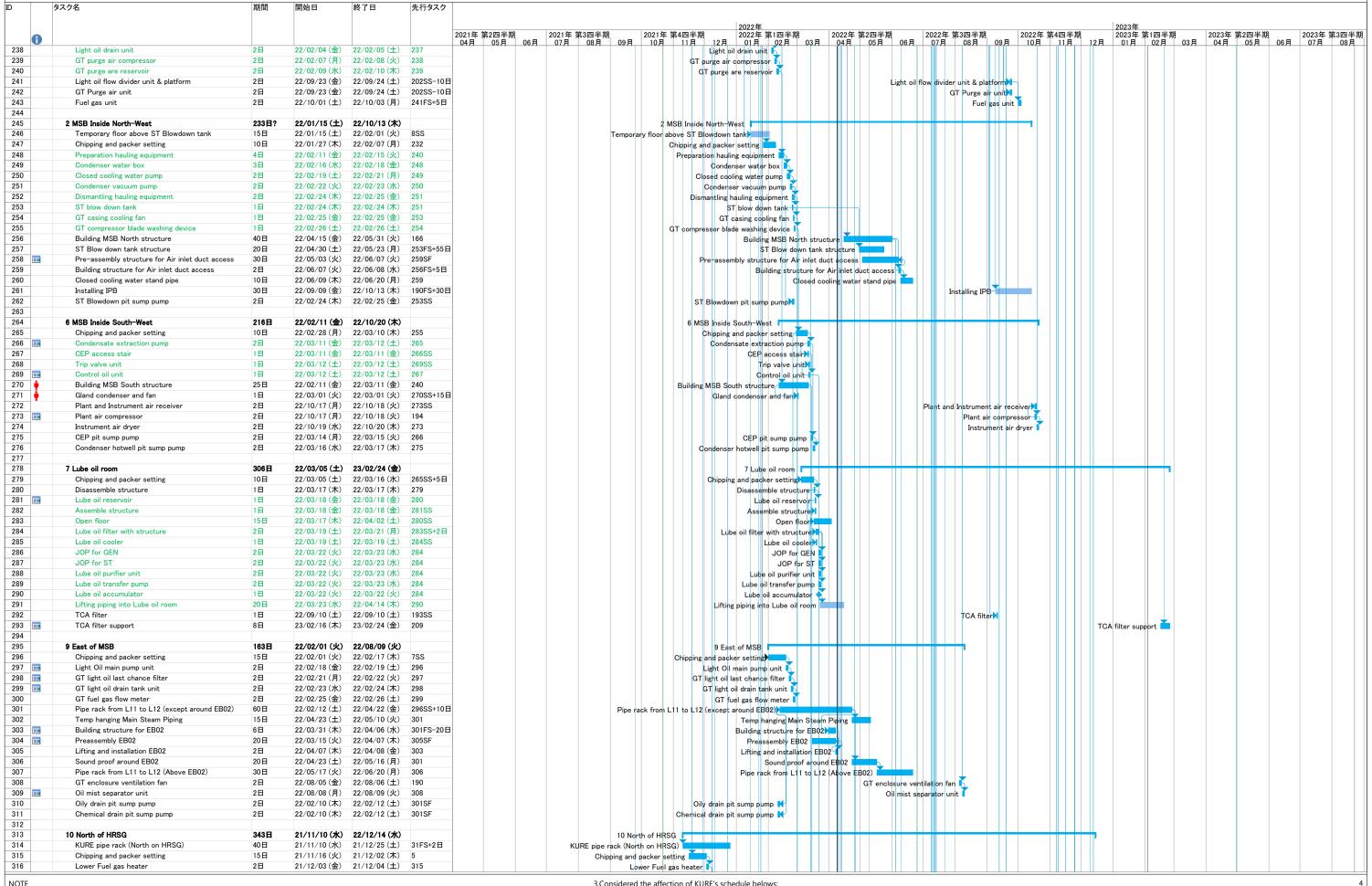
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TAIHEI DENGYO KAISHA.LTD. 20th-Oct-2021 Construction Schedule of Unit-12 Rev.5a

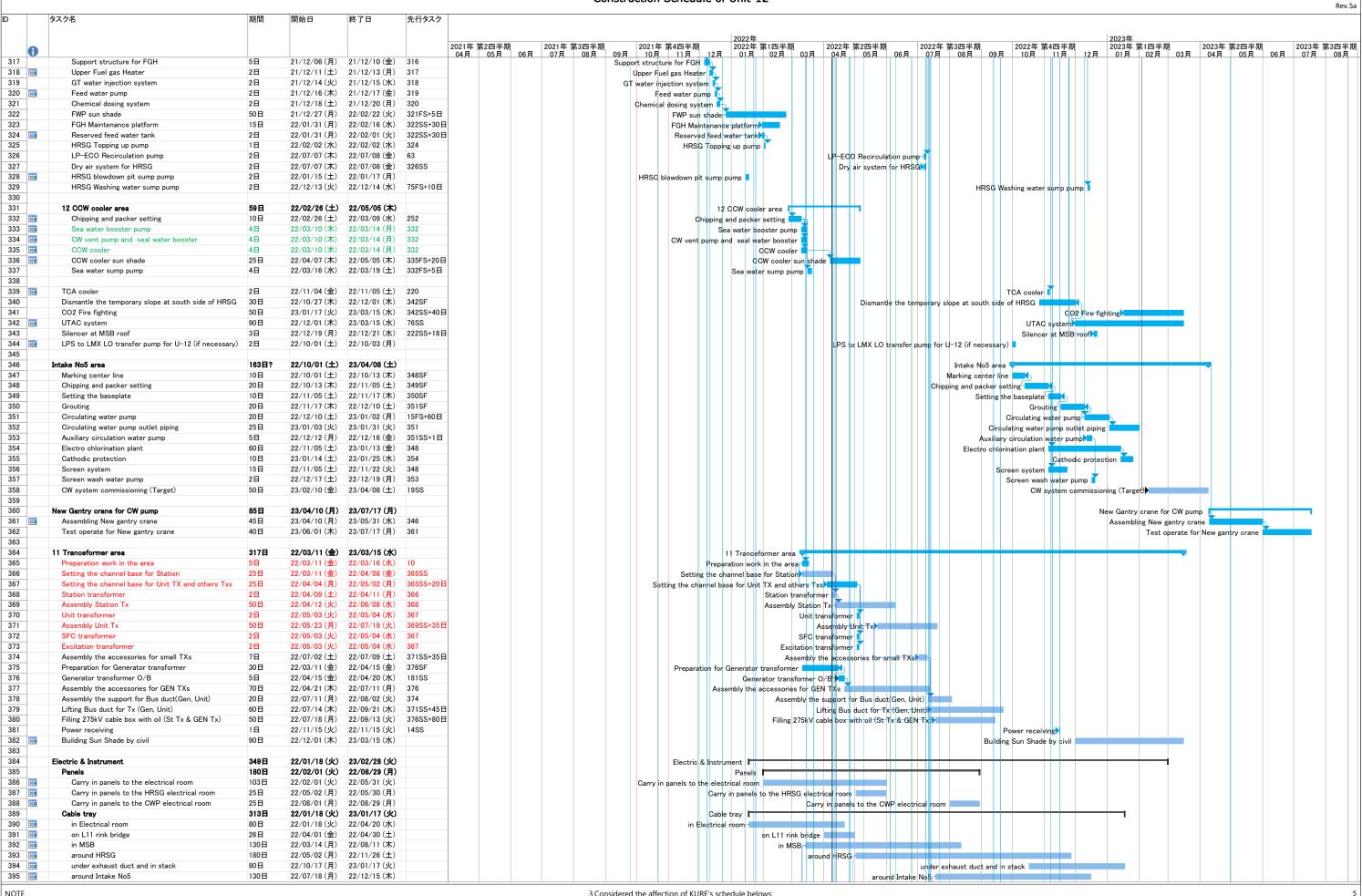


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^{1.} The key date is subjected in the KOM held on 30th-Sep.

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



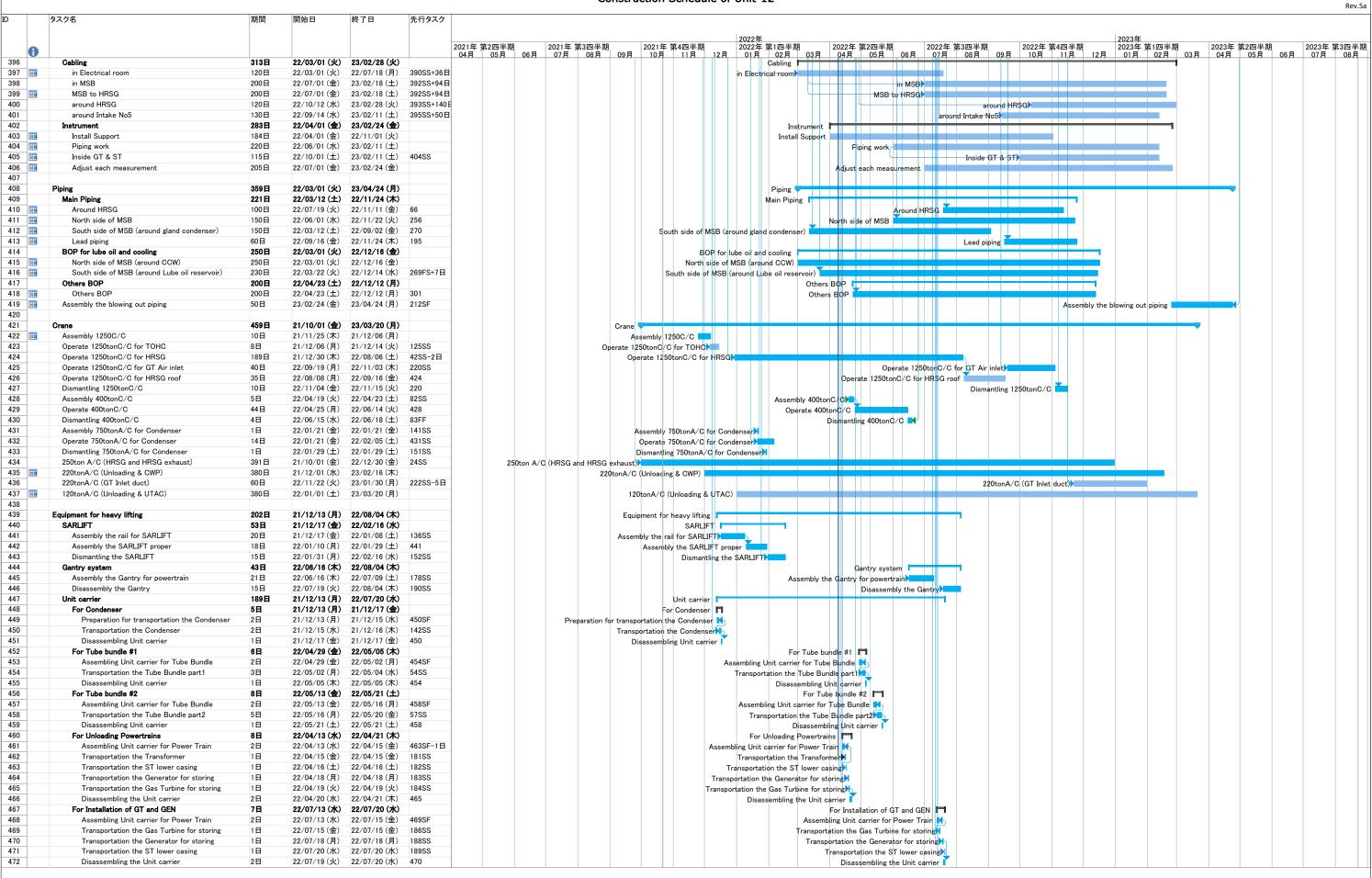
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TAIHEI DENGYO KAISHA.LTD. 20th-Oct-2021 Construction Schedule of Unit-12



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

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

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

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.

Monthly Waste Flow Table for February 2022

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 & 2022

MM.YYYY	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of Non-inert C&D 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	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)	Company (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 May 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08 3.63	0.00	0.00	0.00	0.00	19.09 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 Sep 2020	0.00	0.00	0.00	0.00	0.00	11179.56 0.00	0.00	0.00	0.00 7.53	0.00	0.000	0.00	0.60	73.73		
Oct 2020	0.00	0.00	0.00	0.00	0.00	10762.20	0.00	0.00	7.53	0.00	0.286	0.00	0.00	64.93 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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	51.37		
Feb 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		
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	34.57		
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	30.92		
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		
Jul 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		
Aug 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		
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	14.90		
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		
Dec 2021 Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00 19.60		
Jan 2022 Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	19.60 31.74		
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	1090.23		

Total Inert C&D Waste Materials		Non-inert C&D Materials	3
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
146035.98 tonnes	75.68 tonnes	1090.23 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 materials
		were generated from the Project, of which 142875.75 tonnes were reused in this and other contracts, and the remaining
		3160.23 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
	A 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

(c)	0	kg of metals,	0	kg of papers/ cardboard packing and	0	kg of plastics were sent to recyclers
	for recycling	during the rep	ortina peri	nd		

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

- (1) metal, paper à plastic were collected by recycler
 (2) The performance target of waste recycling are specified in the Contract.
 (3) The waste flow thable shall also include G&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 controlle for recycling into aggregates.
 (6) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.

Appendix K

Monthly Waste Flow Table for February 2022

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, 2022

MM.YYYY		Actual C	Quantities of	Inert C&D N	Materials Ger	nerated Mor	nthly		Actual Quantities of Non-inert C&D Materials Generated Monthly						
	E	xcavated Materia	als	Non-excavated Materials											
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) (1)	Metals (aluminum can) (1)	Paper / cardboard packaging (1)	Plastics	Chemical waste (wasted lubricant oil/oil container)	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	
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40000	26.23	
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24000	1.76	
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	71400	351.99	

		Non-inert C&D Materials						
Total Inert C&D Waste Materi	als Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
5.43	tonnes	0.00 tonnes	351.99 tonnes	71400 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 ma
		were generated 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 Contractt.
		(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
		(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.
		(6) Broken concrete for recycling into aggregates

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

Appendix K

Monthly Waste Flow Table for February 2022

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

Contractor: Paul Y. Construction Company, Limited

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

MM.YYYY		Ac	tual Quant	ities of Inert (C&D Materia	ls Generated I	Monthly		Actual C	uantities of N	Non-inert C&I	O Materials	Generated	Monthly
	Exc	avated Mate	erials		Non-excavated Materials									
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) (1)	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging (1)	Plastics	Chemical waste (wasted lubricant oil/oil container)	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
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36	0.00	0.00	0.00	0.00	52.18
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.93	0.00	0.00	0.00	0.00	42.73
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.62
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Total	0.00	0.00	64180.35	0.00	0.00	0.00	0.00	0.00	208.73	0.00	0.25	0.00	0.40	305.48

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	208.98 tonnes	305.48 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 may be represented from the Project, of which 0.00 tonnes were reused in this and other contracts, and the remaining 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.
es:		(1) metal, paper & plastic were collected by recycler

- - metal, paper & plastic were collected by recycler
 The performance target of waste recycling are specified in the Contract.
 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 <u>NOT</u> be considered as recycled waste.

Monthly Waste Flow Table for February 2022

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

Contractor: Paul Y. Construction Company, Limited

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

MM.YYYY	T	Ad	ctual Quant	ities of Inert (C&D Materia	ls Generated I	Monthly		Actual C	uantities of N	Ion-inert C&I	D Materials	Generated	Monthly
	Exc	avated Mate	erials		Non-excavated Materials									
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Construction Waste Collected by Recycled Company	Contract	Reused in other Projects	Disposed in Public Fill	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
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	46.25
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45
													1	
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	157.42

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	4.21 tonnes	157.42 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 nones 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.
otor:		(1) matel, paper 8, plastic were collected by recycler

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

Monthly Waste Flow Table for February 2022

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

Contractor: Taihei Dengyo Kaisha, Ltd.

Record by: Stephen Sin

Year of Record: 2021, 2022

MM.YYYY		Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of Non-inert C&D Materials Generated Monthly					
	Excavated Materials			Non-excavated Materials				Notice administration with the cas materials seriorated monthly						
	Disposed in Public Fill	Disposed in Sorting Facilities	the Contract / Other Projects)	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
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.29
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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	19.65

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	19.65 tonnes	0 Liters			

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00 tonnes of inert C&D m
		were generated from the Project, of which 0 tonnes were reused in this and other contracts, and the remaining 0.00 tonnes were disposed in Public Fill and Sorting Facilities.
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
	(c)	0 kg of metals. 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
	(d)	Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.
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 foram from packaging material. (5) Broken concrete for recycling into aggregates. (6) Broken concrete for recycling into aggregates. (6) Broken contract waste to public fill or sorting facilities will NOT be considered as recycled waste.

Appendix K