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



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

April 2022



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ENVIRONMENTAL PERMIT NO. EP-071/2000/D

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

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EXECUTIVE SUMMARY

This is the 144th 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 April 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	Backfilling works at receiving pit
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, concreting of trust block and backfilling for No. 5 C.W. Culvert, construction diaphragm beam and retaining wall for Cable Bridge (North & South), construction of pile cap for shunt reactor compound extension and welding works and excavation 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

EPD officials from Regional Office (South) visited Lamma Power Station on 28/4/2022. There was no adverse comment from EPD regarding the construction site.

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-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
Construction Noise Permit	GW-RS0121-22	01/03/22	31/08/22	Contractor	25/02/22
Construction Noise Permit	GW-RS0222-22	13/04/22	12/10/22	Contractor	11/04/22
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

Description	Permit No.	Valid Period		Issued To	Date of
		From	To		Issuance
Waste Disposal	Account No.:	27/10/20	-	Contractor	27/10/20
Billing Account	7038672				
Waste Disposal	Account No.:	08/01/21	-	Contractor	08/01/21
Billing Account	7039272				
Waste Disposal Account No.:		21/10/21	-	Contractor	21/10/21
Billing Account	7041942				

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

Unit L12 Electrical, Instrumentation & Control Erection

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

Concluding Remarks

The environmental performance of the project was generally satisfactory.

1. INTRODUCTION

1.1 Background

The Environmental Team (hereinafter called the "ET") was formed within the Hongkong Electric Co. Ltd (HEC) to undertake Environmental Monitoring and Audit for "Construction of Lamma Power Station Extension" (hereinafter called the "Project"). Under the requirements of Section 6 of Environmental Permit EP-071/2000/D, an EM&A programme for impact environmental monitoring set out in the EM&A Manual (Construction Phase) is required to be implemented. In accordance with the EM&A Manual, environmental monitoring of air quality, noise and water quality and regular environmental audits are required for the Project. With the completion of reclamation and submarine pipeline works, no further marine water quality monitoring would be required.

The Project involves the construction of a gas-fired power station employing combined cycled gas turbine technology, forming an extension to the existing Lamma Power Station. The key elements of the Project including the construction activities associated with the transmission system and submarine gas pipeline are outlined as follows.

- dredging and reclamation to form approximately 22 hectares of usable area;
- construction of six 300MW class gas-fired combined cycle units;
- construction of a gas receiving station;
- construction of a transmission system linking the Lamma Extension to load centres on Hong Kong Island;
- laying of a gas pipeline for the supply of natural gas to the new power station

This report summarizes the environmental monitoring and audit work for the Project for the month of April 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, backfilling works at receiving pit. 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, concreting of trust block

and backfilling works for No. 5 C.W. Culvert, and construction diaphragm beam and retaining wall for Cable Bridge (North & South), construction of pile cap for shunt reactor compound extension, welding works and excavation for No. 5 C.W. Intake. Construction activities for Unit L12 mechanical erection were condenser installation, HRSG installation and turbine block installation. Construction activity for Unit L12 electrical, instrumentation & control erection was cable installation. Layout plan for construction site is shown in Figure 1.1.

The main construction activities carried out during the reporting month and the corresponding environmental mitigation measures are summarized in Table 1.1. The implementation of major mitigation measures in the month is provided in Appendix I.

Table 1.1 Construction Activities and Their Corresponding Environmental Mitigation Measures

Item	Construction Activities	Environmental Mitigation Measures
Unit L11	Civil and Building	Works
1.	Backfilling works at receiving pit	Air - All regulated machine attached with valid exception/approval NRMM labels. - Water truck and water sprinkler system was used. - Excavated slope and soil stock covered with cement or tarpaulin. - Backfilled surface was compacted. - Wheel washing facility was provided. Wastewater - Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. The frequency would be from every other day to weekly basis depends on the volume of sediment accumulated in order to maintain sufficient volume for wastewater treatment.
		Waste Management
		 Excavated soil was temporary stored for backfilling. Scrape metal would be recycled. Timber would be reused as much as possible.
Unit L11	Mechanical Erection	on
2.	Testing and commissioning	Air - Dust suppression measures implemented according to the EMP.

Item	Construction Activities	Environmental Mitigation Measures
Unit L1	l 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	 Civil and Building	Works
4.	Construction of Main Station Building Construction of No.5 Chimney Construction of L12 GRS Equipment Room	 Air All regulated machine attached with valid exception/approval NRMM labels. Water truck, water sprinkler system and mist cannon would be used. Water spraying for concrete breaking works. Soil stock would be covered with cement or tarpaulin or keep the entire surface wet. Wheel washing facility was provided.
	ACB Construction of superstructure No.5 C.W. Culvert Concreting of trust block 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): Construction diaphragm beam and retaining wall Shunt Reactor Compound Extension Construction of pile cap	Air - All regulated machine attached with valid exception/approval NRMM labels. - Water truck, water sprinkler system and mist cannon were used. - Excavated soil slop covered with tarpaulin. - Wheel washing facilities was provided. - Water spraying on haul road and during concrete breaking.
	рис сар	Noise
	No. 5 C.W. Intake Welding works and Excavation	 Noise emission label was provided for air compressor. Works conducted during restricted hours should comply with the valid CNP.
		Waste Management
		 Excavated soil would be stored for backfilling.
		 Wastewater Wastewater would be treated in desilting tanks before discharge. Silt curtain was provided as preventive measures at Intake 5.
Unit L12	2 Mechanical Erection	on
6	Condenser installation	Air
	HRSG installation	 Dust suppression measures implemented according to the EMP.
	Turbine block installation	Noise - General noise mitigation measures employed at all work sites throughout the construction phase.
		Waste Management

Item	Construction Activities	Environmental Mitigation Measures	
		Waste Management Plan submitted and implemented	
Unit L12	Electrical, Instrume	entation & Control Erection	
7	Cable installation	Air - Dust suppression measures implemented according to the EMP. Noise	
		General noise mitigation measures employed at all work sites throughout the construction phase.	
		Waste Management - Waste Management Plan submitted and implemented.	

1.4 Summary of EM&A Requirements

The detailed EM&A monitoring work for air quality and noise are described in Sections 2 and 3 respectively. Regular environmental site audits for air quality, noise, water quality and waste management were carried out.

The following environmental audits are summarized in Section 4 of this report:

- Environmental monitoring results;
- Waste Management Records;
- Weekly site audit results;
- The status of environmental licensing and permits for the Project;
- The implementation status of environmental protection and pollution control/ mitigation measures.

Future key issues will be reported in Section 5 of this report.

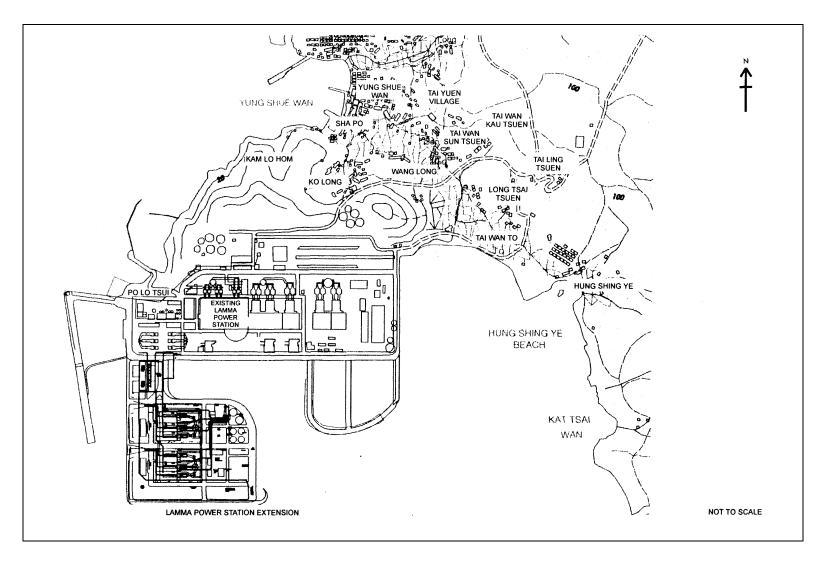


Figure 1.1 Layout of Work Site

2. AIR QUALITY

2.1 Monitoring Requirements

1-hour and 24-hour TSP monitoring at agreed frequencies were conducted to monitor air quality. The impact monitoring data were checked against the Action/Limit Levels as determined in the Baseline Monitoring Report (Construction Phase). Appendix B shows the established Action/Limit Levels for Air Quality.

2.2 Monitoring Locations

Three dust monitoring locations were selected for 1-hour TSP sampling (AM1, AM2 & AM3) while four monitoring locations were selected for 24-hour TSP sampling (AM1, AM2, AM3 and AM4). Table 2.1 tabulates the monitoring stations. The locations of the monitoring stations are shown in Figure 2.1.

Table 2.1 Air Quality Monitoring Locations

Location I.D.	Description
AM1	Reservoir
AM2	East Gate
AM3	Ash Lagoon
AM4	Tai Yuen Village

2.3 Monitoring Equipment

It is agreed with EPD that continuous 24-hour TSP air quality monitoring would be performed using TEOM continuous dust monitor and the MINIVOL Portable Sampler at AM1,2&3 and AM4 respectively. TEOM continuous dust monitors were used to carry out 1-hour TSP monitoring at AM1, AM2 and AM3. Table 2.2 summarises the equipment used in dust monitoring.

Table 2.2 Air Quality Monitoring Equipment

Equipment	Model and Make
24-hour sampling:	
Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific
MINIVOL Portable Sampler	AIRMETRICS
1-hour sampling: Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific

2.4 Monitoring Parameters, Frequency and Duration

Table 2.3 summarises the monitoring parameters, duration and frequency of air quality monitoring. The monitoring schedule for the reporting month is shown in Appendix C.

Table 2.3 Air Quality Monitoring Parameter, Duration and Frequency

Monitoring Stations	Parameter	Duration	Frequency
AM1	1-hour TSP	1	3 hourly samples every 6 days
Alvii	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
Alviz	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
AM3	24-hour TSP	24	Once every 6 days
AM4	24-hour TSP	24	Once every 6 days

2.5 Monitoring Procedures and Calibration Details

MINIVOL (24- hour TSP Monitoring):

Preparation of Filter Papers

- Visual inspection of filter papers was carried out to ensure that there were no pinholes, tears and creases;
- The filter papers were then labeled before sampling.
- The filter papers were equilibrated at room temperature and relative humidity < 50% for at least 24 hours before weighing.

Field Monitoring

- During collection of the sampled filter paper, the information on the elapse timer was logged. Site observations around the monitoring stations, which might have affected the monitoring results, were also recorded. Major pollution sources, if any, would be identified and reported.
- The post-sampling filter papers were removed carefully from the filter holder and folded to avoid loss of fibres or dust particles from the filter papers;
- The filter holder and its surrounding were cleaned;
- A pre-weighed blank filter paper for the next sampling was put in place and aligned carefully. The filter holder was then tightened firmly to avoid leakage;
- The programmable timer was set for the next 24 hrs sampling period;
- The post-sampling filter papers were equilibrated at room temperature and relative humidity < 50% for at least 24 hours before weighing.

TEOM continuous dust monitor (24- hour TSP and 1- hour TSP Monitoring):

- The following parameters of the TEOM model dust meters are regularly checked to ensure proper functionality:
 - Operation Mode:
 - o Frequency of the tapered element;
 - o Main flow;
 - Bypass flow.

Maintenance & Calibration

• The monitoring equipment and their accessories are maintained in good working conditions.

• Monitoring equipment is calibrated at monthly intervals. Calibration details are shown in Appendix F.

2.6 Results and Observations

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

1-hour TSP

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

24-hour TSP

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

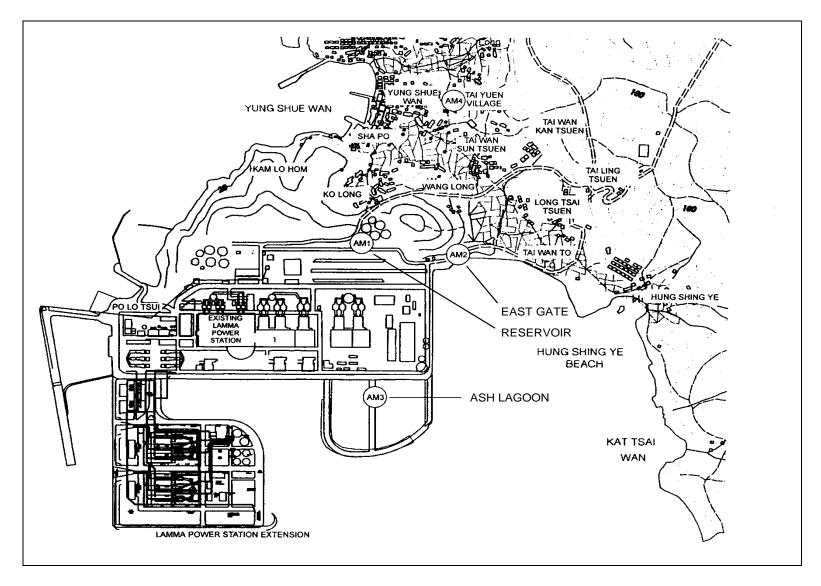


Figure 2.1 Location of Air Quality Monitoring Stations

3. NOISE

3.1 Monitoring Requirements

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

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

3.2 Monitoring Locations

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

3.3 Monitoring Equipment

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

Table 3.1 Noise Monitoring Equipment

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

3.4 Monitoring Parameters, Frequency and Duration

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

Table 3.2 Noise Monitoring Duration and Parameter

Locat	ion	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 March 2022. The next calibrations for the two noise monitoring stations were scheduled in September 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.

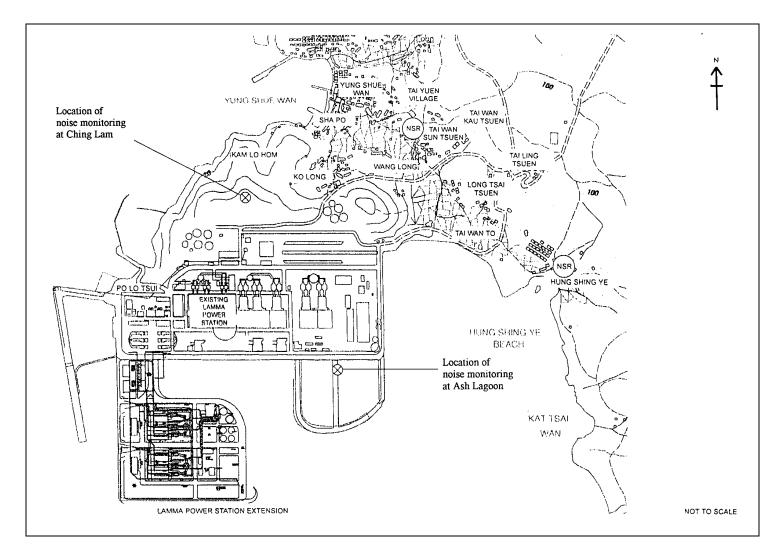


Figure 3.1 Location of Noise Monitoring Stations

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)	01/04/2022- 30/04/2022	0	0	
2	Ambient TSP (1-hour)	01/04/2022- 30/04/2022	0	0	
Noise					
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/04/2022- 30/04/2022	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 April 2022 are shown in Table 4.2.

Table 4.2 Estimated Amounts of Waste in April 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	

15.17 Tonnes 0 Tonnes	134.75 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

EPD officials from Regional Office (South) visited Lamma Power Station on 28/4/2022. There was no adverse comment from EPD regarding the construction site.

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-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
Construction Noise Permit	GW-RS0121-22	01/03/22	31/08/22	Power Block Facilities works for Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0222-22	13/04/22	12/10/22	Construction site of Unit L12. Operation of PME during restricted hours	Valid

Description	Permit No.	Valid Period		Highlights	Status
_		From	To		
WPCO Discharge Licence#	WT00034006- 2019	08/08/19	31/08/24	Civil and Building Works for Unit L11	Valid
WPCO Discharge Licence##	WT00037613- 2021	15/04/21	30/04/26	Civil and Building Works for No.5 C.W. Intake and Cable Bridge	Valid
WPCO Discharge Licence###	WT00037665- 2021	06/05/21	31/05/26	Civil and Building Works for Unit L12	Valid
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Civil and Building Works	Valid
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 2022 and the results of which would be reported separately by the contractor.

4.6 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the permits and the EM&A Manual (Construction Phase) are required to be implemented. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix I.

4.7 Implementation Status of Event/Action Plans

The Event/Action Plans extracted from the EM&A Manual (Construction Phase) are presented in Appendix G.

4.8 Implementation Status of Environmental Complaint Handling Procedures

In April 2022, no complaint against the construction activities was received.

Table 4.4 Environmental Complaints Received in April 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 monitoring the noise level during construction and to ensure compliance with the CNP's already obtained.
- To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

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

Unit L12 Electrical, Instrumentation & Control Erection

Noise Impact

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

Air Impact

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

5.2 Monitoring Schedules for the Next 3 Months

The tentative environmental monitoring schedules for the next 3 months are shown in Appendix C.

5.3 Construction Program for the Next 3 Months

The tentative construction programs for the next 3 months are shown in Appendix J.

6. CONCLUSION

All monitoring work at designated stations was performed as scheduled satisfactorily. The environmental monitoring works and site inspection were performed as scheduled in the reporting month. All monitoring results were checked and reviewed.

No Action/Limit level exceedance on 1-hour and 24-hour TSP level was recorded in the reporting month.

No Action/Limit level exceedance on noise was recorded in the reporting month.

Environmental mitigation measures recommended in the EM&A manual for the construction activities were implemented in the reporting month. No complaint 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.

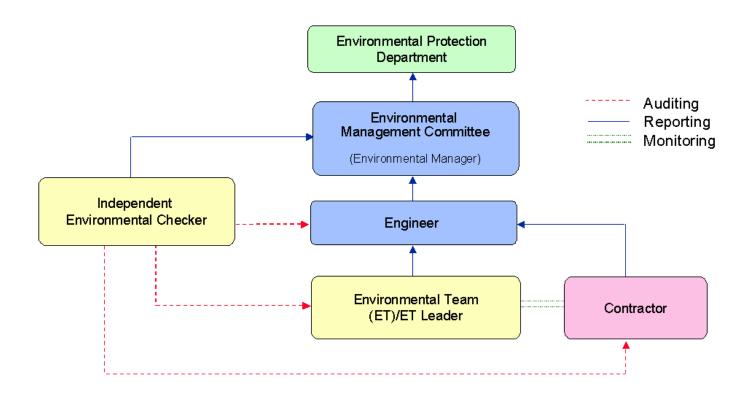


Figure A.1 Organisation of EM&A Programme at Construction Phase

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 (April 2022 to July 2022)

24hr TSP Monitoring	1hr TSP Monitoring
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
6/June/2022	6/June/2022 1500hr to 1800hr
12/June/2022	12/June/2022 1500hr to 1800hr
18/June/2022	18/June/2022 1500hr to 1800hr
24/June/2022	24/June/2022 1500hr to 1800hr
30/June/2022	30/June/2022 1500hr to 1800hr
6/July/2022	6/July/2022 1500hr to 1800hr
12/July/2022	12/July/2022 1500hr to 1800hr
18/July/2022	18/July/2022 1500hr to 1800hr
24/July/2022	24/July/2022 1500hr to 1800hr
30/July/2022	30/July/2022 1500hr to 1800hr

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: April 2022

24 hour TSP Measurement:-

		TSP concentr	ation (µg/m³)		other Information		
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir. (°)	Mean R.H.
1/4/2022	27	21	26	26	43.1	70	83
7/4/2022	32	36	30	21	12.9	30	70
13/4/2022	27	34	23	15	10.0	230	81
19/4/2022	17	36	16	38	17.3	10	83
25/4/2022	21	31	13	14	13.7	160	79

1 hour TSP Measurement:-

		TSP concentration (µg/m³)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
1/1/2000	15:00 - 15:59	23	28	34		
1/4/2022	16:00 - 16:59	16	20	31		
	17:00 - 17:59	12	17	30		
5/4/2022	15:00 - 15:59	43	43	33		
7/4/2022	16:00 - 16:59	39	50	32		
	17:00 - 17:59	44	47	32		
	15:00 - 15:59	33	45	20		
13/4/2022	16:00 - 16:59	33	33	27		
	17:00 - 17:59	28	32	27		
	15:00 - 15:59	13	34	12		
19/4/2022	16:00 - 16:59	15	28	14		
	17:00 - 17:59	13	53	14		
	15:00 - 15:59	21	33	14		
25/4/2022	16:00 - 16:59	20	22	16		
	17:00 - 17:59	22	19	15		

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

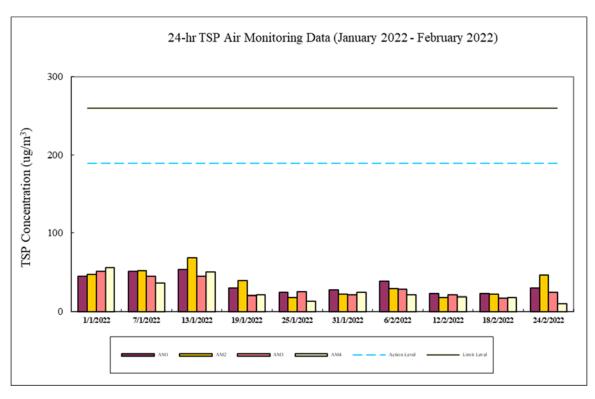
Calibration: Calibration details are shown in appendix F.

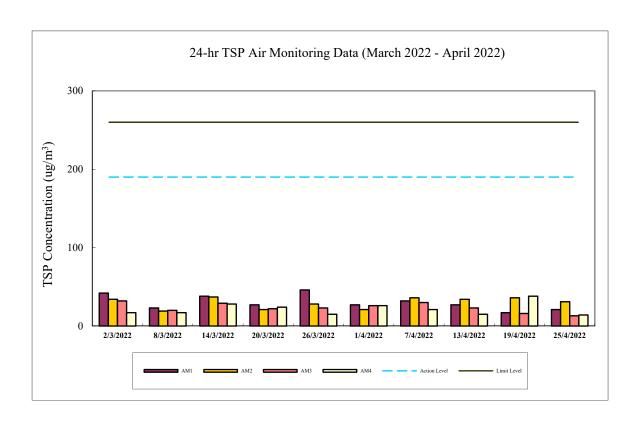
Equipment used:

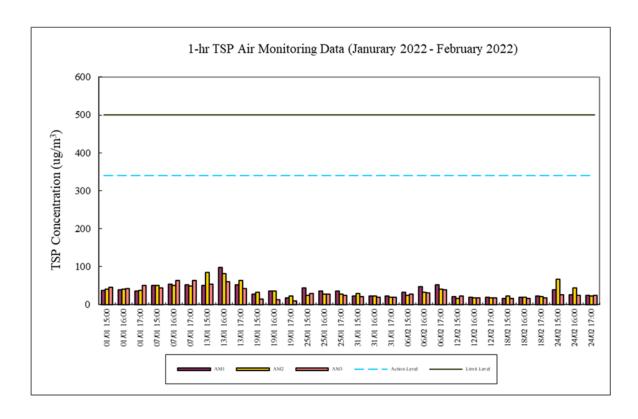
Action Level

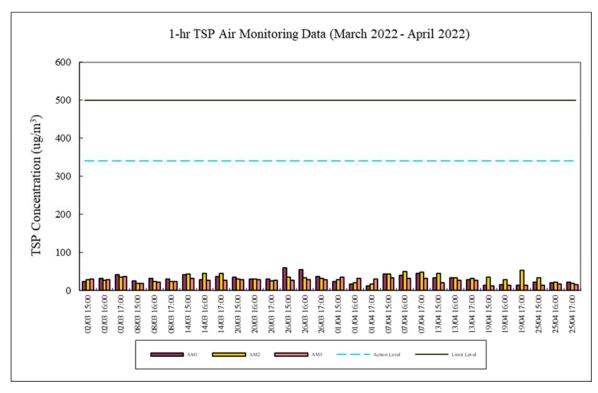
Limit Level

Location	1-hr TSP	24-hr TSP
Reservoir, East Gate and Ash Lagoon	TEOM	TEOM









Appendix E Continuous Noise Monitoring Results for April 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)

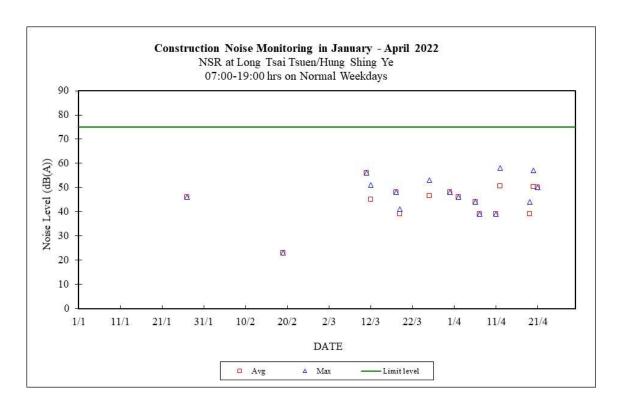
B&K 4231 calibrator (21/10/2021)

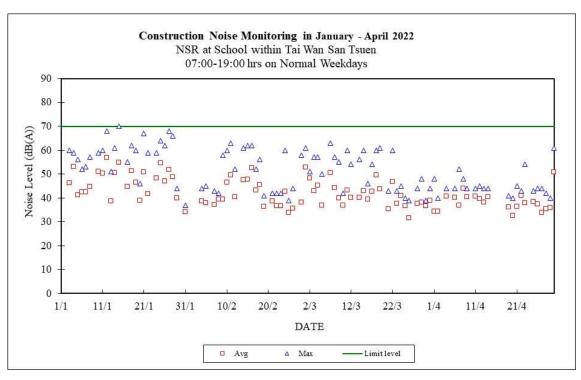
Date	Time	Calculated Noise Level at NSR at Long Tsai Tsuen/Hung Shing Ye (dB(A))		Limit Noise Level (dB(A))	Calcula Noise Level a NSR at school within Wan Sar Tsuen (dB(A))	the Tai	Limit Noise Level (dB(A))
		Max	Avg		Max	Avg	
01/04/2022	07:00-19:00			75	48	34	70
01/04/2022	19:00-23:00			60	43	39	60
01/04/2022	23:00-07:00			45	41	35	45
02/04/2022	07:00-19:00	46	46	75	40	34	70
02/04/2022	19:00-23:00			60	43	38	60
02/04/2022	23:00-07:00	42	35	45	44	41	45
03/04/2022	07:00-23:00	49	39	60	47	40	60
03/04/2022	23:00-07:00	39	35	45	45	42	45
04/04/2022	07:00-19:00			75	44	41	70
04/04/2022	19:00-23:00			60	51	43	60
04/04/2022	23:00-07:00			45	45	43	45
05/04/2022	07:00-23:00	51	42	60	46	41	60
05/04/2022	23:00-07:00	45	44	45	45	42	45
06/04/2022	07:00-19:00	44	44	75	44	40	70
06/04/2022	19:00-23:00			60	45	40	60
06/04/2022	23:00-07:00	44	39	45	43	38	45
07/04/2022	07:00-19:00	39	39	75	52	37	7.0
07/04/2022	19:00-23:00			60	44	42	60
07/04/2022	23:00-07:00	34	30	45	44	41	45
08/04/2022	07:00-19:00			75	48	44	70
08/04/2022	19:00-23:00			60	46	42	60
08/04/2022	23:00-07:00	40	38	4.5	45	40	4.5
09/04/2022	07:00-19:00			75	44	40	70
09/04/2022	19:00-23:00			60	42	38	60
09/04/2022	23:00-07:00	45	41	45	45	41	45
10/04/2022	07:00-23:00	54	44	60	47	39	60
10/04/2022	23:00-07:00	44	42	45	44	39	45
11/04/2022	07:00-19:00	39	39	75	44	41	70
11/04/2022	19:00-23:00	39	39	60	44	41	60
11/04/2022	23:00-23:00	42	34	45	4 4	37	45
12/04/2022	07:00-19:00	58	51	75	44	40	70
12/04/2022	19:00-23:00		21	60	4.5	40	60
12/04/2022	23:00-23:00	44	40	45	44	41	45
		44	40	_			
13/04/2022	07:00-19:00			75	44	38	70
13/04/2022	19:00-23:00			60	47	42	60
13/04/2022	23:00-07:00	43	38	45	44	40	45

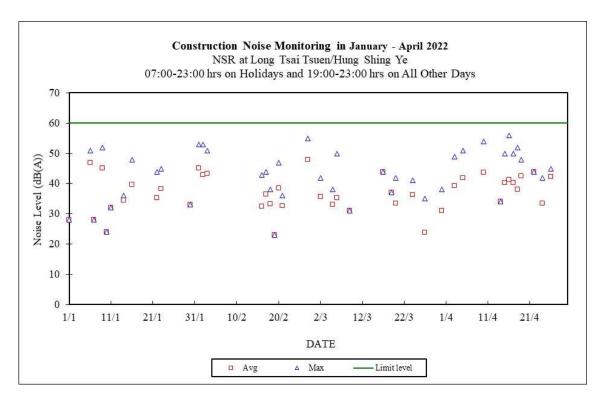
14/04/2022	07:00-19:00			75	44	40	70
14/04/2022	19:00-23:00	34	34	60	44	41	60
14/04/2022	23:00-07:00	40	35	45	45	41	45
15/04/2022	07:00-23:00	50	40	60	49	40	60
15/04/2022	23:00-07:00	40	33	45	45	39	45
16/04/2022	07:00-23:00	56	41	60	49	38	60
16/04/2022	23:00-07:00	39	34	45	43	36	45
17/04/2022	07:00-23:00	50	40	60	51	36	60
17/04/2022	23:00-07:00	44	41	45	42	39	45
18/04/2022	07:00-23:00	52	38	60	53	36	60
18/04/2022	23:00-07:00	31	31	45	40	35	45
19/04/2022	07:00-19:00	44	39	75	41	36	70
19/04/2022	19:00-23:00	48	43	60	40	36	60
19/04/2022	23:00-07:00	39	35	45	41	36	45
20/04/2022	07:00-19:00	57	50	75	40	33	70
20/04/2022	19:00-23:00			60	41	38	60
20/04/2022	23:00-07:00	36	36	45	41	33	45
21/04/2022	07:00-19:00	50	50	75	45	37	70
21/04/2022	19:00-23:00			60	50	39	60
21/04/2022	23:00-07:00	43	39	45	44	38	45
22/04/2022	07:00-19:00			75	43	41	70
22/04/2022	19:00-23:00	44	44	60	43	42	60
22/04/2022	23:00-07:00	36	33	45	43	39	45
23/04/2022	07:00-19:00			75	54	38	70
23/04/2022	19:00-23:00			60	40	34	60
23/04/2022	23:00-07:00	44	38	45	43	39	45
24/04/2022	07:00-23:00	42	34	60	50	36	60
24/04/2022	23:00-07:00	40	35	45	44	39	45
25/04/2022	07:00-19:00			75	43	39	70
25/04/2022	19:00-23:00			60	41	40	60
25/04/2022	23:00-07:00	40	33	45	41	37	45
26/04/2022	07:00-19:00			75	44	37	70
26/04/2022	19:00-23:00	45	42	60	48	39	60
26/04/2022	23:00-07:00	41	36	45	41	38	45
27/04/2022	07:00-19:00			75	44	34	70
27/04/2022	19:00-23:00			60	43	38	60
27/04/2022	23:00-07:00	35	34	45	42	33	45
28/04/2022	07:00-19:00			75	42	35	70
28/04/2022	19:00-23:00			60	44	38	60
28/04/2022	23:00-07:00	41	36	45	40	38	45
29/04/2022	07:00-19:00			75	40	36	70
29/04/2022	19:00-23:00			60	41	36	60
29/04/2022	23:00-07:00	38	32	45	38	32	45
30/04/2022	07:00-19:00			75	61	51	70
30/04/2022	19:00-23:00			60	43	37	60
30/04/2022	23:00-07:00	39	39	45	45	40	45

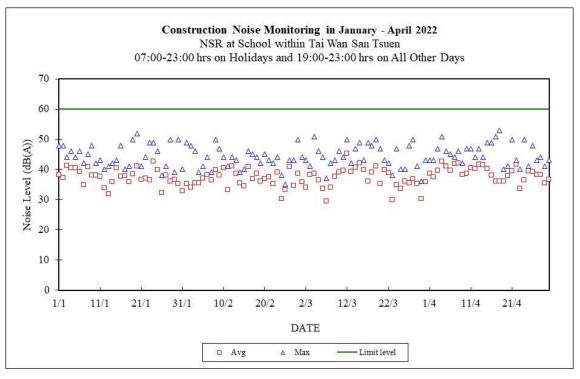
Note:

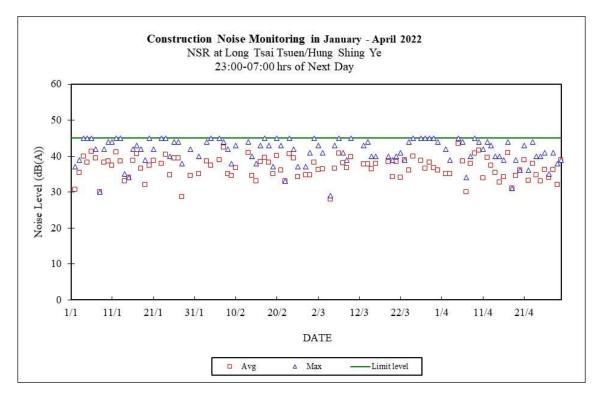
- a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.
- b. Continuous noise monitoring was also carried out at holidays & evening-time (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time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

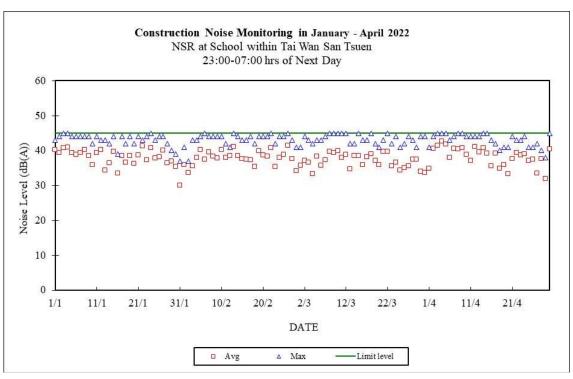












Appendix F

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: April 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)
01/04/2022	269.263	4	3.05	10.31
07/04/2022	268.676	4	2.98	10.31
13/04/2022	268.118	4	2.94	10.31
19/04/2022	270.573	4	3.03	10.31
25/04/2022	270.225	4	2.90	10.31

East Gate (AM2)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
01/04/2022	252.100	4	2.39	14.14	
07/04/2022	253.286	4	3.05	13.86	
13/04/2022	252.685	4	2.72	13.58	
19/04/2022	251.854	4	2.72	14.12	
25/04/2022	251.450	4	2.56	13.70	

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)
01/04/2022	257.940	4	3.00	13.68
07/04/2022	257.472	4	3.00	13.68
13/04/2022	257.994	4	3.00	13.67
19/04/2022	257.514	4	3.00	13.68
25/04/2022	257.250	4	3.00	13.68

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

Remarks:

Prepared by: Chris Chan

Checked by: HY Chan

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

Attendance Log	Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
14/04/2022 / 10:30	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR94
New filter paper no.	MR95

Type of filter: Glass-fibre

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

 Before:
 5.072

 After:
 5.037

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		Ching Lam
	Calibration Results	Deviation from	Calibration Results	Deviation from
		Reference (dB)		Reference (dB)
01/04/2022	Passed	-0.18	Passed	-0.23
02/04/2022	Passed	-0.15	Passed	-0.15
03/04/2022	Passed	-0.16	Passed	-0.13
04/04/2022	Passed	-0.13	Passed	-0.13
05/04/2022	Passed	-0.12	Passed	-0.11
06/04/2022	Passed	-0.12	Passed	-0.12
07/04/2022	Passed	-0.12	Passed	-0.09
08/04/2022	Passed	-0.12	Passed	-0.12
09/04/2022	Passed	-0.11	Passed	-0.10
10/04/2022	Passed	-0.10	Passed	-0.08
11/04/2022	Passed	-0.09	Passed	-0.11
12/04/2022	Passed	-0.09	Passed	-0.09
13/04/2022	Passed	-0.09	Passed	-0.09
14/04/2022	Passed	-0.09	Passed	-0.06
15/04/2022	Passed	-0.08	Passed	-0.14
16/04/2022	Passed	-0.12	Passed	-0.15
17/04/2022	Passed	-0.11	Passed	-0.13
18/04/2022	Passed	-0.13	Passed	-0.14
19/04/2022	Passed	-0.11	Passed	-0.10
20/04/2022	Passed	-0.09	Passed	-0.10
21/04/2022	Passed	-0.10	Passed	-0.06
22/04/2022	Passed	-0.07	Passed	-0.09
23/04/2022	Passed	-0.07	Passed	-0.06
24/04/2022	Passed	-0.07	Passed	-0.08
25/04/2022	Passed	-0.07	Passed	-0.07
26/04/2022	Passed	-0.06	Passed	-0.08
27/04/2022	Passed	-0.06	Passed	-0.05
28/04/2022	Passed	-0.07	Passed	-0.08
29/04/2022	Passed	-0.07	Passed	-0.04
30/04/2022	Passed	-0.13	Passed	-0.18

Remarks:

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

Appendix G Event/Action Plans

Table G.1 Event and Action Plans for Air Quality

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

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

Table G.2 Event and Action Plans for Construction Noise

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

Table G.3 Event and Action Plans for Water Quality

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

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

Appendix H Summary of Site Audit Findings

L11 Civil and Building Works
<u>Dates of Inspection</u> : 8/4/2022, 12/4/2022, 19/4/2022 and 26/4/2022.
Summary of Findings
Summary of Findings
General
No anvisanmental deficiency identified
 No environmental deficiency identified.
Air Quality
 No environmental deficiency identified.
1.0 0.1 , 1.0 1.1
Noise
 No environmental deficiency identified.
Two chryholmentar dericiency identified.
Water Quality
No anvisammental deficiency identified
 No environmental deficiency identified.
Waste Management
 No environmental deficiency identified.

L11 Mechanical, Electrical, Instrumentation & Control Erection Works Dates of Inspection: 7/4/2022, 14/4/2022, 21/4/2022 and 28/4/2022. 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: 8/4/2022, 12/4/2022, 19/4/2022 and 26/4/2022.

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: 7/4/2022, 14/4/2022, 21/4/2022 and 28/4/2022.

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

EM&A Log Ref.	Mitigation Measures	Implementation Status
В7	In addition to the above specific measures the following general working procedures shall be adopted. **	
	fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A
	the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	barges shall be loaded carefully to avoid splashing of material;	N/A
	all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A
	all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	"rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels. **	
	NOISE	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
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.	С
	Dredging Waste	
E2	All vessels for marine transportation of dredged sediment shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials. In addition, loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water, and barges or hoppers should under no circumstances be filled to a level which shall cause the overflowing of materials or polluted water during loading or transportation**	N/A
	Storage, Collection and Transport of Waste	
E3	Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.	С
	Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap.354), Waste Disposal (Chemical Waste) (General) Regulation (Cap.354), the Crown Land Ordinance (Cap 28), Dumping at Sea Ordinance (Cap 466) and Work Branch Technical Circular No. 22/92, Marine Disposal of Dredged Mud.	С
	Disposal of waste at Licensed sites;	С
	Develop procedures such as a ticketing system to facilitate tracking of marine mud and chemical waste, and to ensure that illegal disposal does not occur;	С
	 Segregate and sort the waste materials into 3 categories: public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area; re-use and/or recycling waste (e.g. steel and other metals); waste which cannot be re-used and/or recycled (e.g. wood, glass and 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.	Mitigation Measures	Implementation Status
G1	All percussive piling works shall be conducted on reclaimed land to avoid noise impact to marine mammals**	N/A
G2	All construction related vessels shall approach the extension site from the north and via the East Lamma Channel to avoid disturbance to the finless porpoise**	N/A
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms**	N/A
G4	Artificial Reefs of a volume not less than 400 m ³ shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.**	N/A
	FISHERIES	
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A
	RISK ASSESSMENT	
I1	No risk mitigation measures are required during the construction phase.	N/A

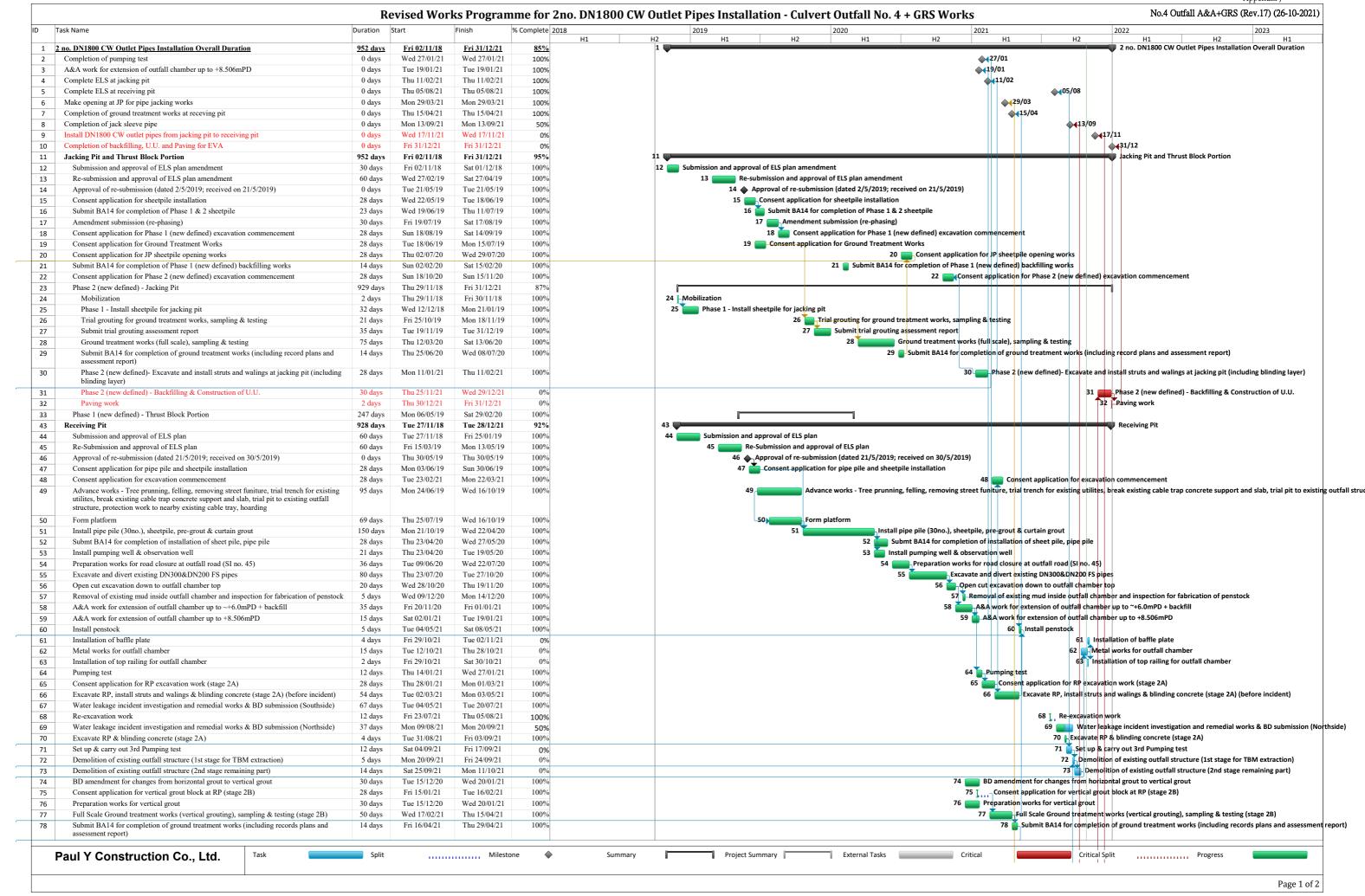
Remarks:

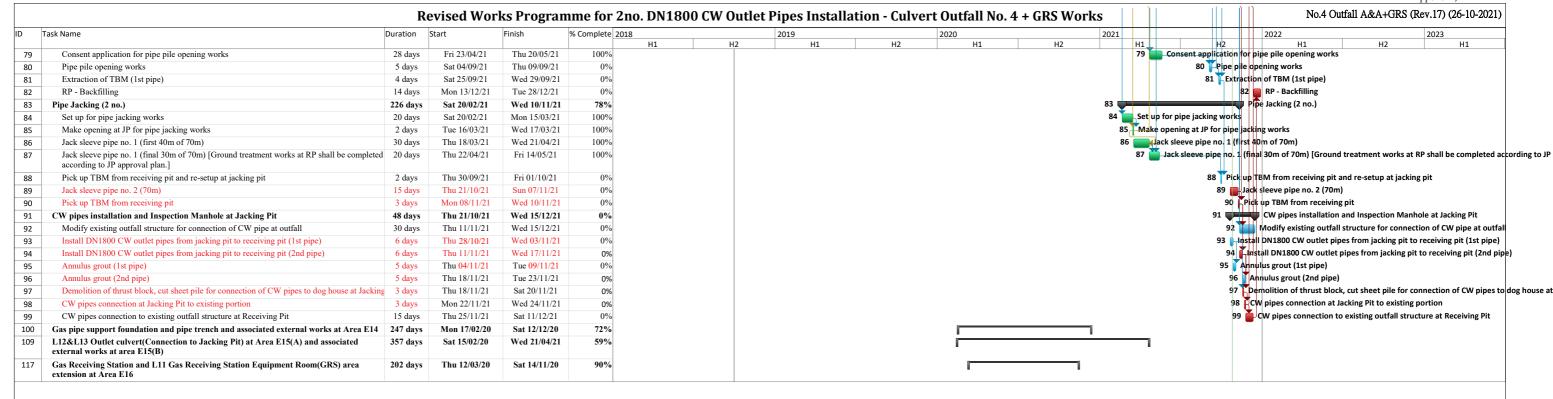
No dredging and reclamation work would be involved for L11 & L12 construction Compliance with mitigation measure
Non-compliance with mitigation measure
Not Applicable **

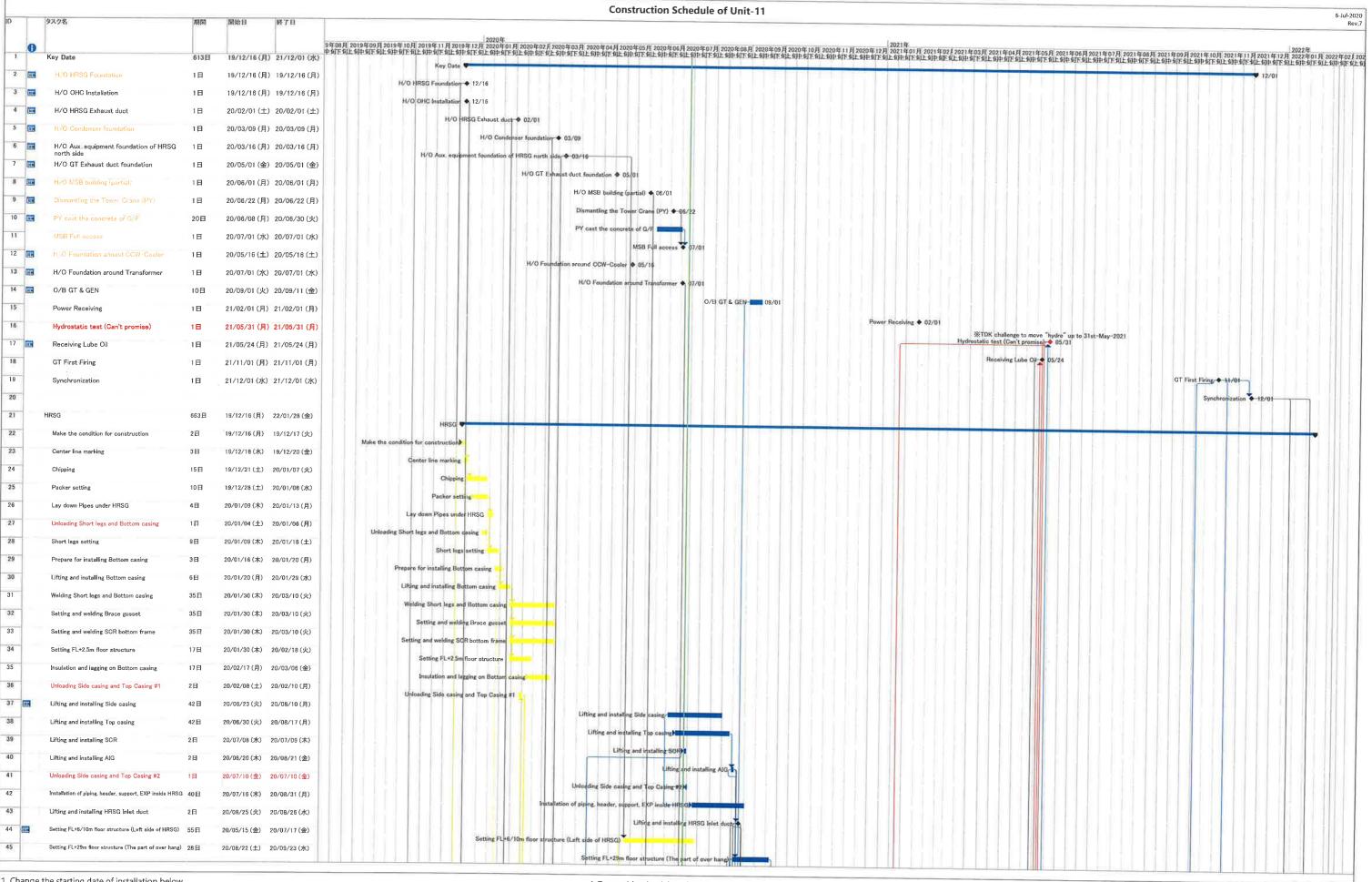
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NC

N/A





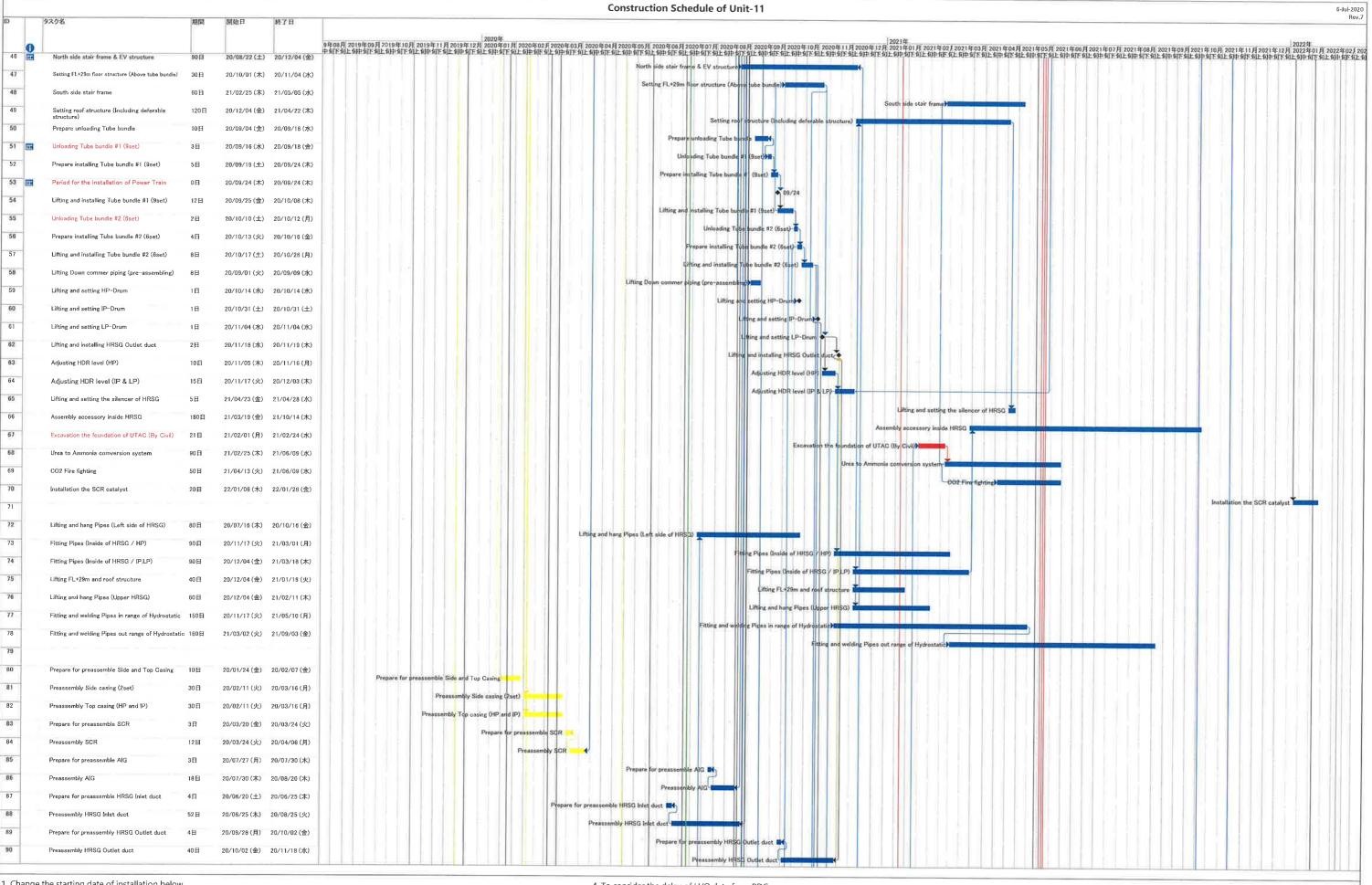


[.] Change the starting date of installation below

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

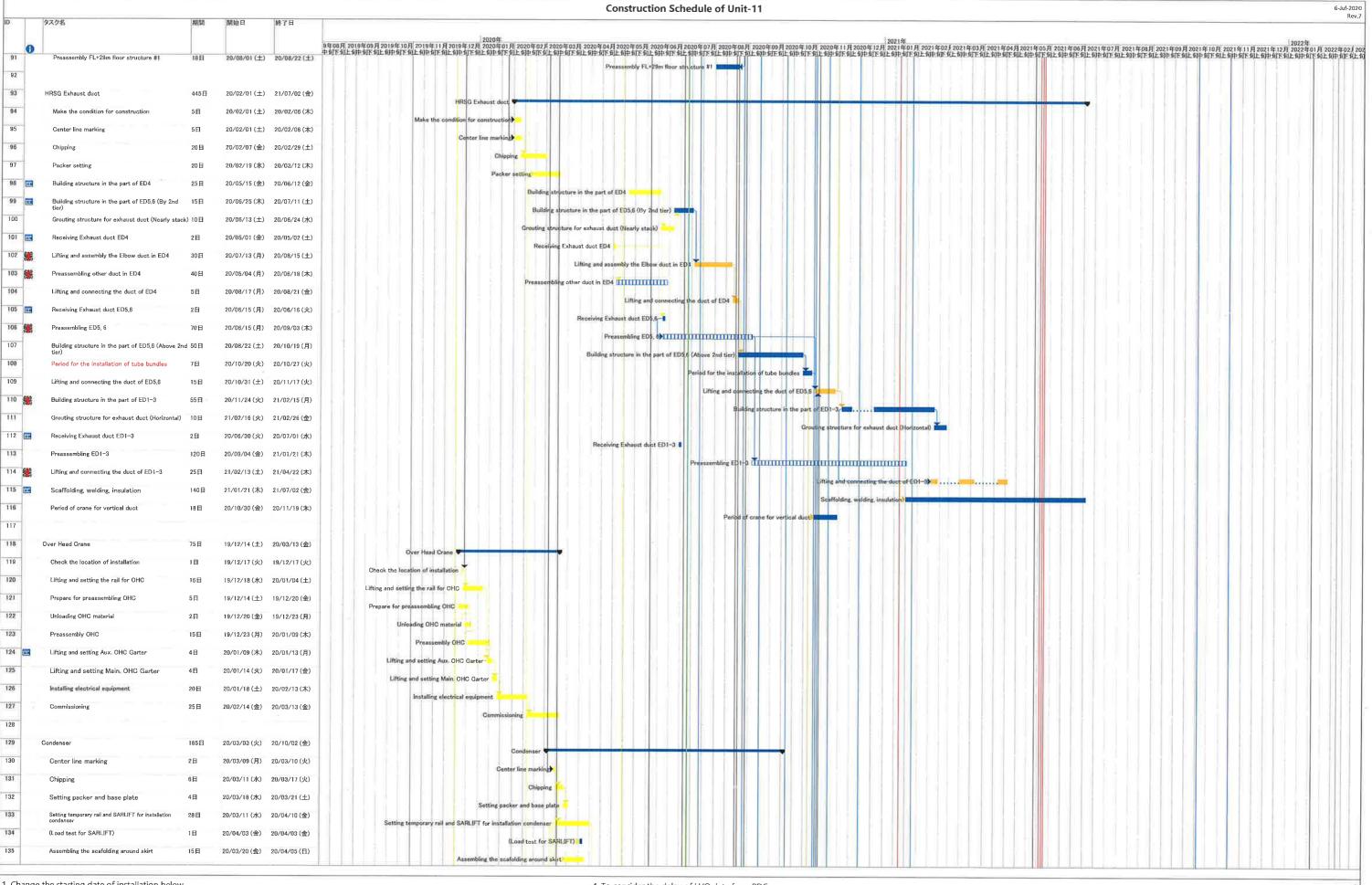


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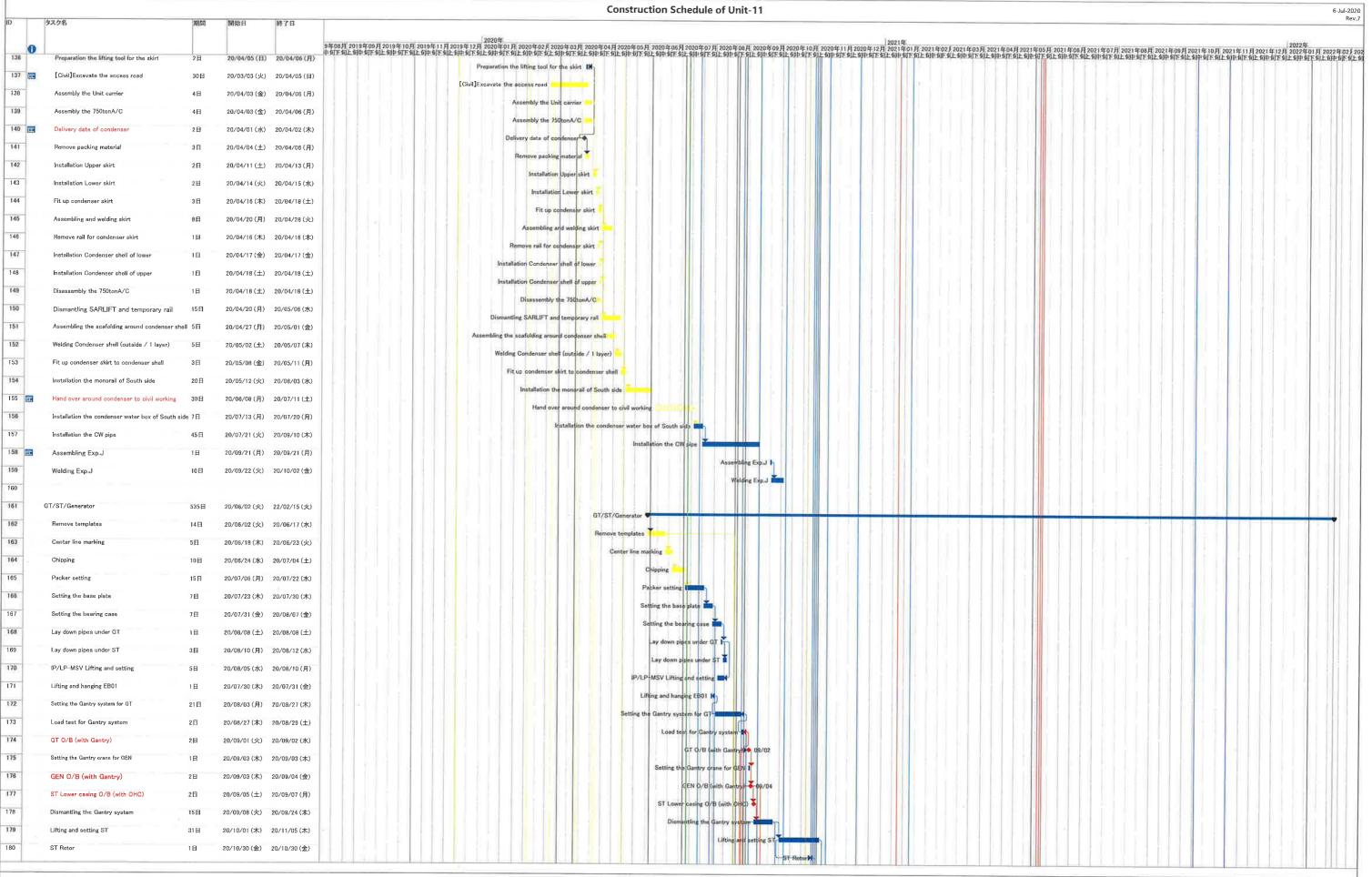


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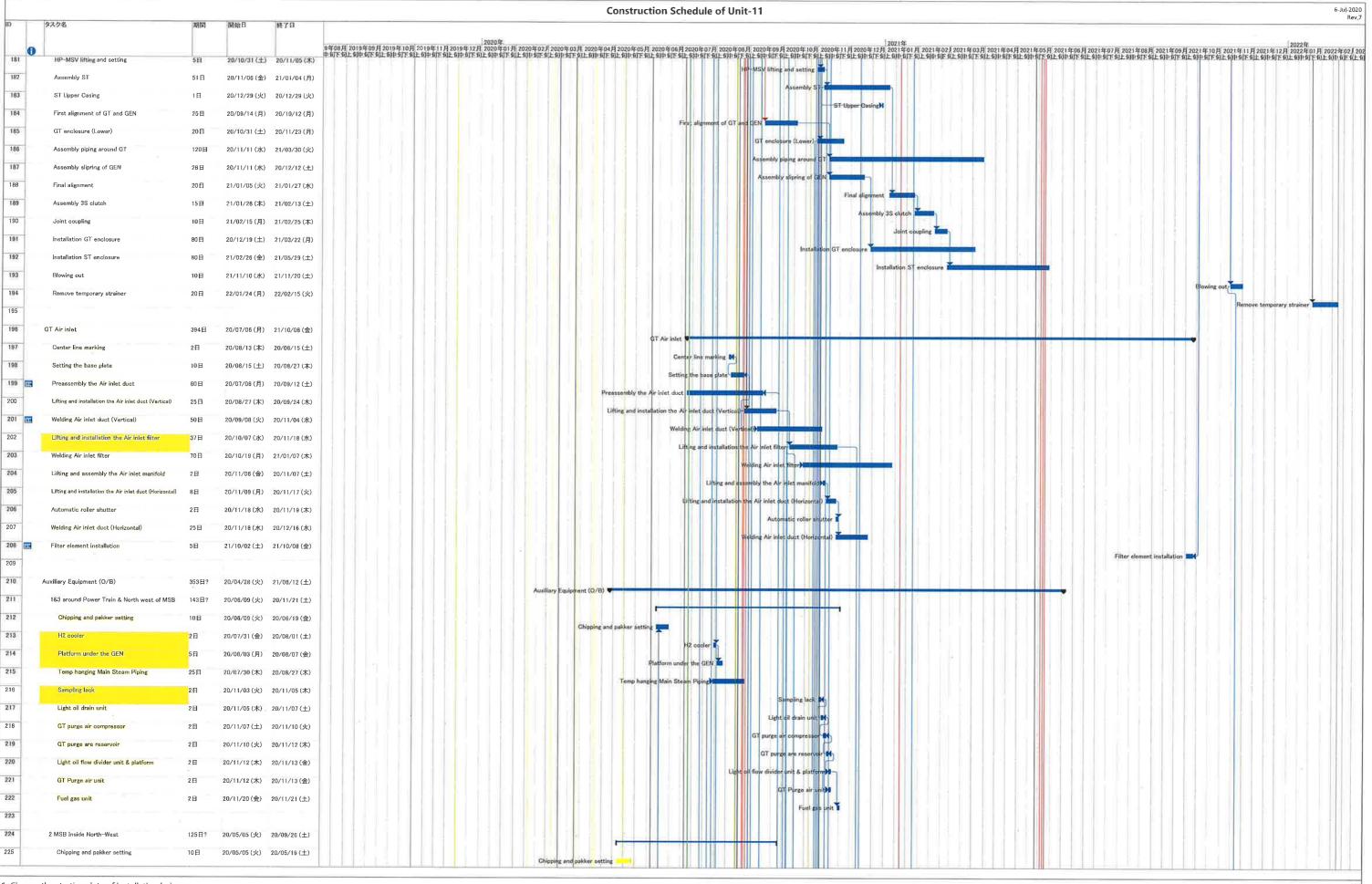
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- · Installation HRSG was re-started from 23rd-Jun
- · Installation Exhaust duct was re-started from15st-May
- 2. To consider that structure of Takasago portion is delayed

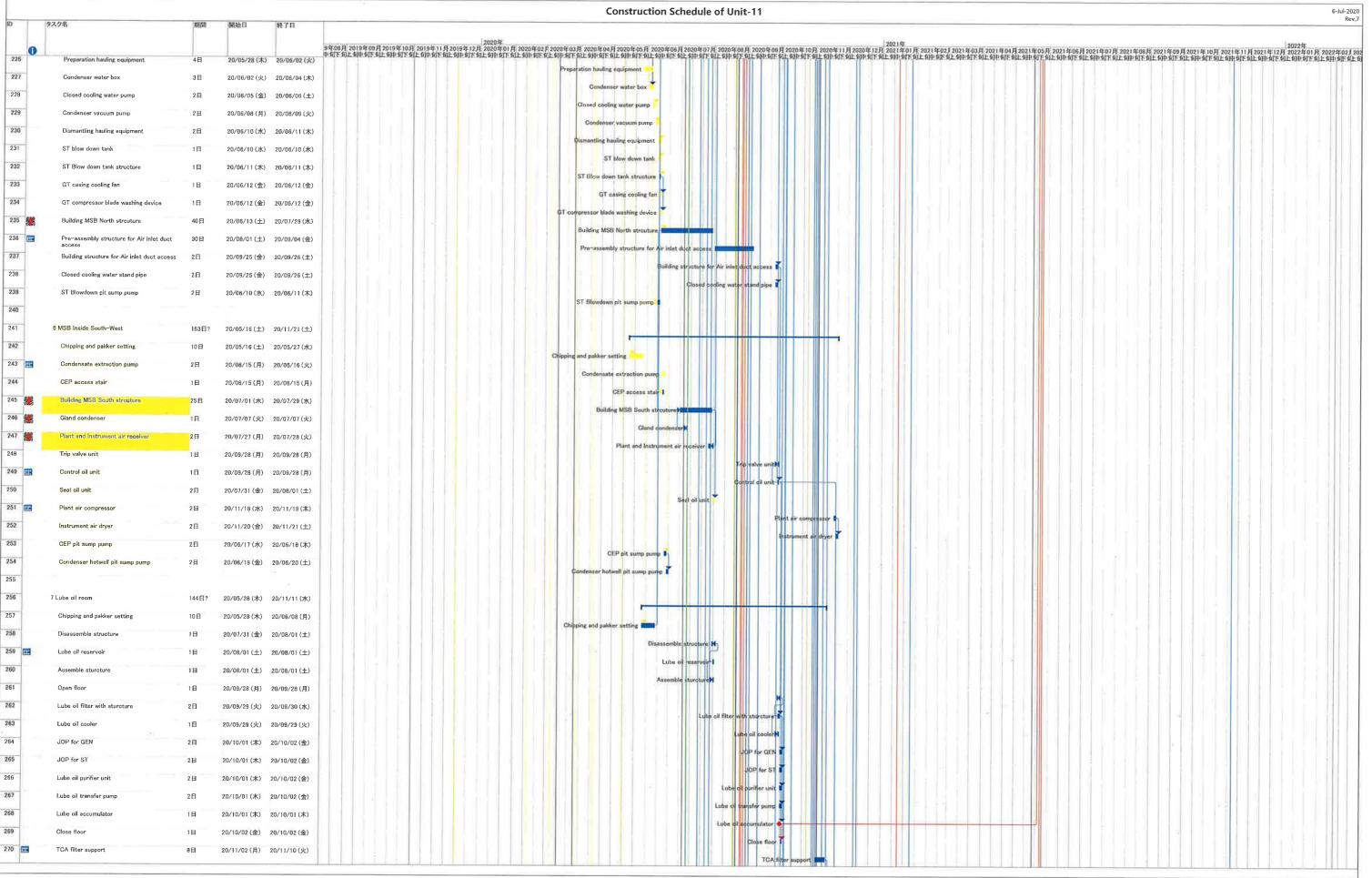


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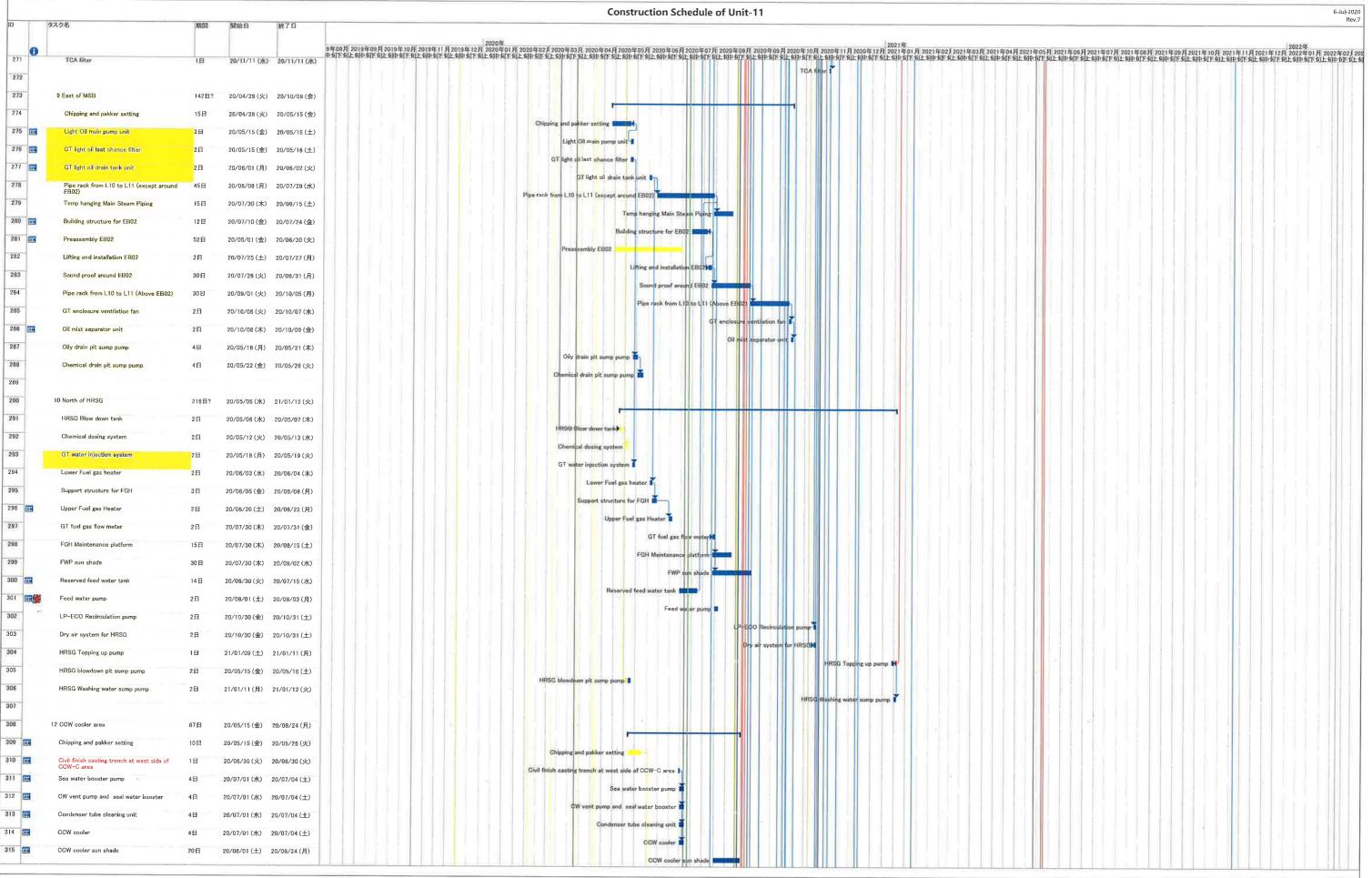


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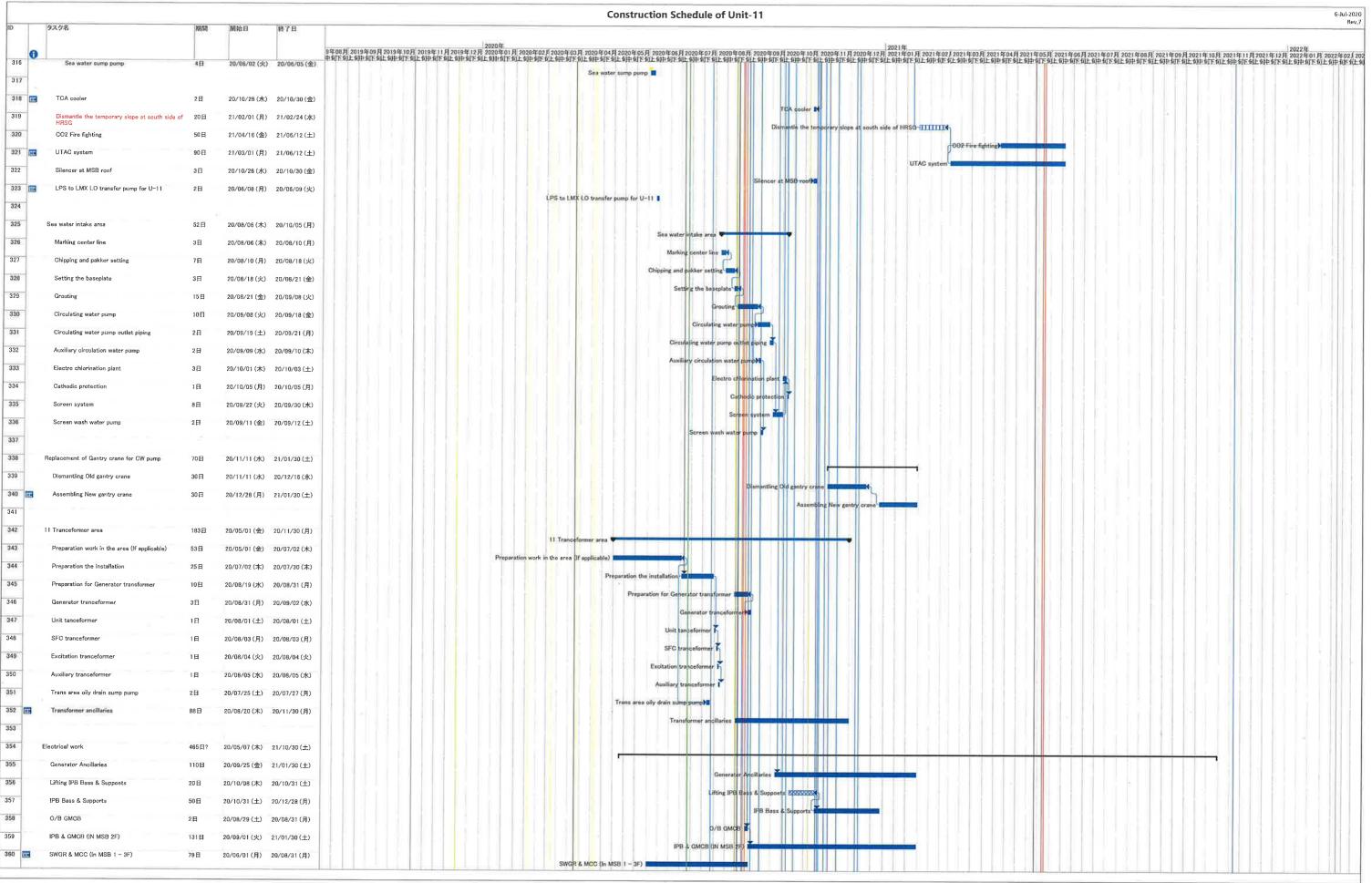


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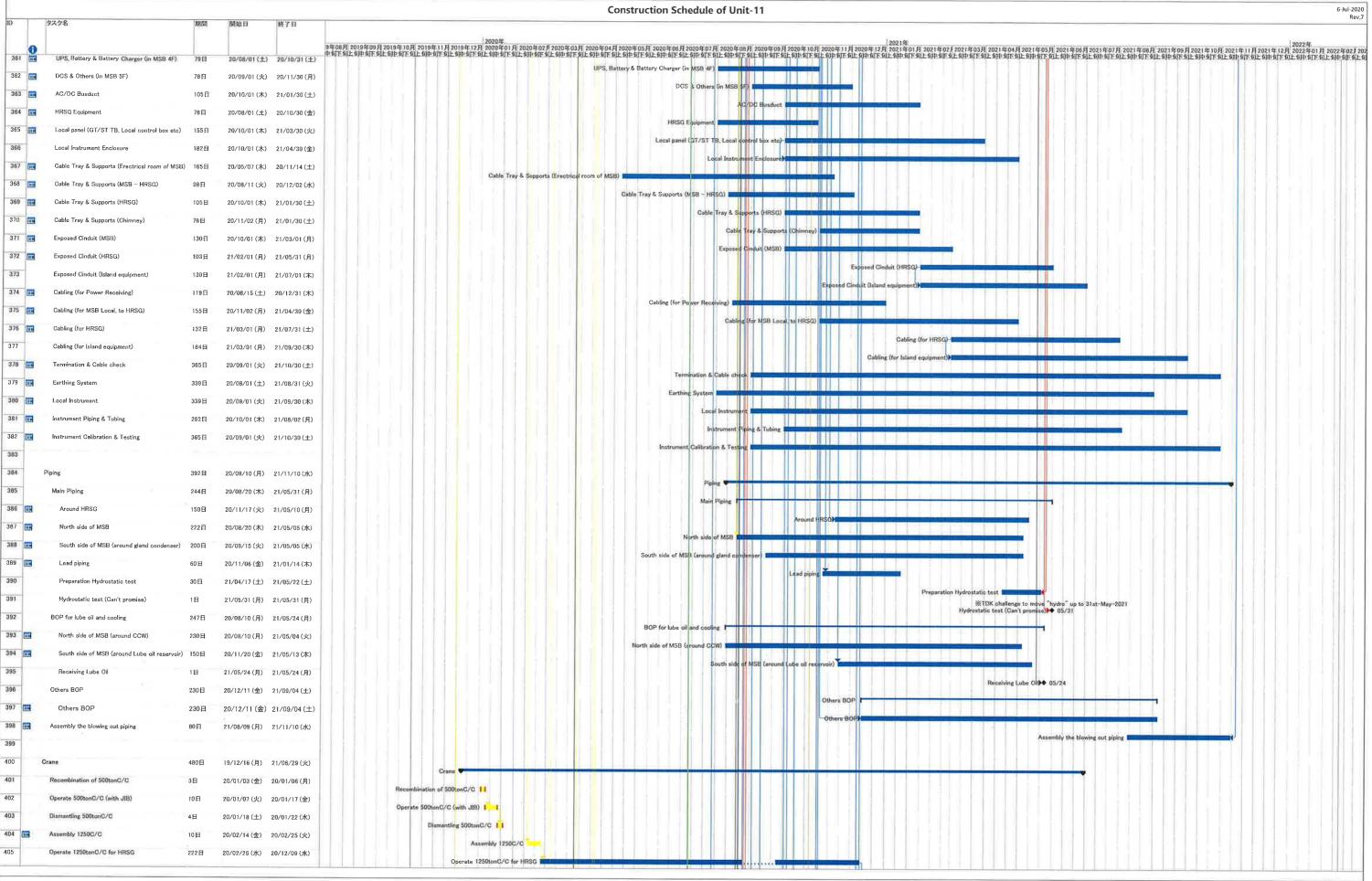


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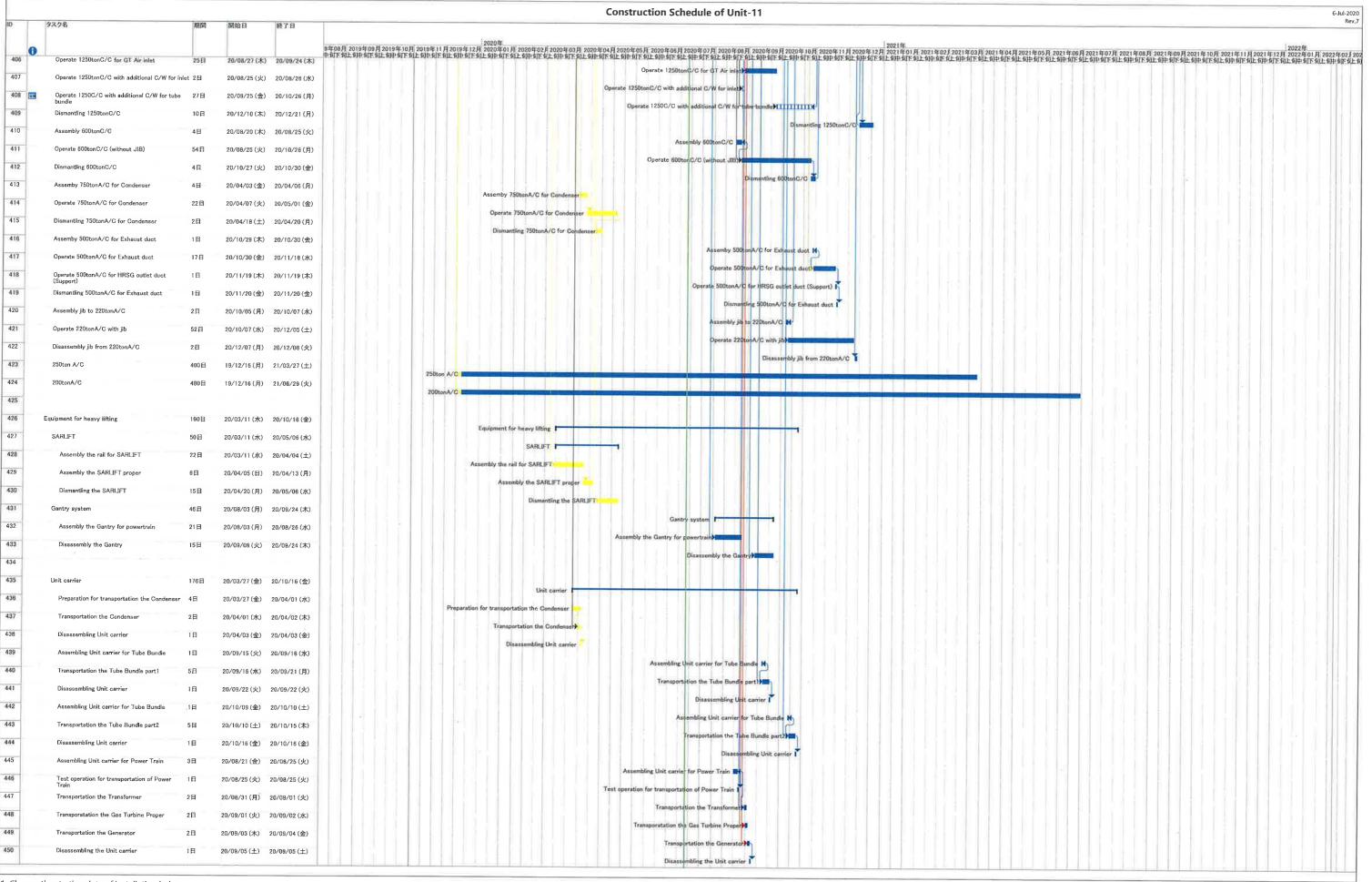


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^{1.} Change the starting date of installation below

[·] 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

2	Task Name KEY DATES & MILESTONES	Duration 1123 days	Start Fri 4/12/20	May Jun Jul
	Contract Period	1123 days	Fri 4/12/20	
+	Deferred Work Completion Key Dates Substantial Completion of the Whole Contract Works (1123 Days)	784 days 0 days	Mon 8/11/21 Sun 31/12/23	
-	SITE POSSESSION DATES	513 days	Fri 4/12/20	
	Site Possession Date as phased site possesion plan and PS1.4.2	0 days	Fri 4/12/20	
-	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	Fri 1/1/21 Sat 1/5/21	
	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Fri 1/10/21	
0	Site Possession Date as phased site possesion plan and PS1.4.2	0 days	Fri 1/4/22	Date as phased site possesion plan and PS1.4.2 Site Possession Date as phased site possesion plan
-	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	one Possession Date as phased site possesion plan
	Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 &	0 days	Thu 30/9/21	
4	F2 Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except	O dovo	Mon 1/11/21	
	the roof deferred works	0 days	WOII 1/11/21	
5	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	0 days	Mon 10/1/22	Land Warder in duding OW land Only and A Arra FOR
-	Section A2 (ii) External Works including CW Intet Culvert at Area F8B Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	0 days 0 days	Thu 31/3/22 Fri 11/3/22	ternal Works including CW Intet Culvert at Area F8B sincluding CW Inlet Culvert at Area F8C
	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	0 days	Wed 15/12/21	
	Section B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 553/03/2040 including the foundations for Gas Exhaust Duct	0 days	Thu 30/9/21	
)	Section B2 (ii) - Remaining northern part of Ll2 HRSG area and its surrounding at Area F6A and F6C	0 days	Mon 15/11/21	
1	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	ndation including the L12 MSB ground floor together w
	reservoir			
	Section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations	0 days	Wed 15/12/21	
	between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern	0 days	Sat 15/1/22	_
	areas mentioned above in Area F5	0 days		
	Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all	0 days	Thu 31/3/22	hole of L12 MSB including the pipe and cable rack alon
+	underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works Section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB	0 days	Sun 10/4/22	(iii) Link Bridge between L11 and L12 MSB including t
	Section D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and	0 days	Fri 10/6/22	Section D - (i) Microwave A
4	antenna Section D (ii) - No. 5 Chimney with L12 Steel Flue liner	0 days	Tue 21/3/23	-
	Section B (ii) TNO. 3 of Administration and Control Building	0 days	Sun 31/10/21	
)	Section E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building	0 days	Mon 28/2/22	Well of Admin. & Control Building Section E (iii) - Whole of Admin.
'	Section E (iii) - Whole of Admin. And Control Building Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area	0 days 0 days	Tue 31/5/22 Wed 30/11/22	Section 2 (iii) - Whole of Admin. 7
	F14	•		
2	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	0 days 0 days	Tue 31/5/22 Wed 31/8/22	♦ (Setion F (ii) - Pipe and Cable rack
4	Section G (i) - External Work surrounding Area F11	0 days	Wed 31/6/22 Wed 26/10/22	
5	Section G (ii) - External Works at Area F12 & F13	0 days	Fri 30/9/22	
7	Section G (iii) - FS Modification works along South Seafront Road at Area F15 Section G (iv) - 275kV cable trenches and External Works at Area F16	0 days 0 days	Fri 30/9/22 Fri 30/9/22	-
В	Section G (v) - Shunt Reactor Compound and External Works at Area F17	0 days	Fri 30/9/22	
9	Section G (vi) - 275kV cable trenches and External Works at Area F18	0 days	Wed 1/6/22	Section G (vi) - 275kV cable trend
1	Section G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A Seciton G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	0 days 0 days	Sun 8/5/22 Fri 30/9/22	Section G (vii) - Flood Wall at No. 4 CW Intake A
2	Seciton G (ix) - Bund wall modification works at South Seafront Road at Area F21	0 days	Fri 15/10/21	
3	Section G (x) - DAX Cable Diversion Works (from Part I to Part IV) Section H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days 0 days	Sat 31/12/22 Tue 28/2/23	
	occion in American and so completed for reporting completion to BB and ready for or inspection	o days	1 00 20/2/20	<u> </u>
	GENERAL & PRELIMINARY	228 days	Fri 4/12/20	
6 7	First Mobilization Set up Temporary Site Office and Welfare Factiliites	18 days 90 days	Fri 4/12/20 Tue 22/12/20	-
3	Permit Applications & Statuary Submissions	120 days	Mon 22/3/21	
9	Existing Utilities scanning & Excavation Permit	45 days	Tue 22/12/20	
'	Tower Crane erections TECHNICAL SUBMISSION AND APPROVAL	60 days 314 days	Sun 27/12/20 Thu 10/12/20	
1				
2	BD Approval & Consent (If required)	0 days	Thu 10/12/20	
2	BD Approval & Consent (If required) Submission and Approval of Master Programme	0 days 14 days	Thu 10/12/20 Fri 11/12/20	
:	BD Approval & Consent (If required)	0 days 14 days 14 days	Thu 10/12/20	
2 3 4 5	BD Approval & Consent (If required) Submission and Approval of Master Programme Work Execuation Overal Plan submission & approval Material Submissions and approval Method Statement submission and approval	0 days 14 days 14 days 300 days 300 days	Thu 10/12/20 Fri 11/12/20 Fri 11/12/20 Fri 25/12/20 Fri 25/12/20	
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CO	ntract No. 19/83002 Lamma Power Station Extension Civil and	Building	Works for Ur	nit Ma ster Programm
ID T	ask Name	Duration	Start	2022 May Jun Jul
87	Installation CW Inlet Culvert pipe	70 days	Tue 15/6/21	
88 89	Backfill	7 days	Tue 24/8/21	_
90	Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection	21 days 3 days	Tue 31/8/21 Tue 28/9/21	
91	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof	333 days	Fri 4/12/20	
	structure except the roof deferred workss	,		
2	Area Possession & Clearance	45 days	Fri 4/12/20	_
3	Subletting / Fabrication / Delivery	210 days	Tue 23/2/21	-
† 5	Complete structural steel erection Install Crane Girders	0 days 11 days	Tue 19/10/21 Tue 12/10/21	
3	Construction of roof slab (except defer work)	14 days	Tue 12/10/21	
	Touch up and handover for install overhead cranes	3 days	Sat 30/10/21	_
3	Section A2 (i) External Works including CW Inlet Culvert at Area F8A	403 days	Fri 4/12/20	
•	BD consent for Sheetpile installation	30 days	Fri 4/12/20	
0	Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days	Fri 18/12/20	
2	Area Possession & Clearance Install Sheet pile	14 days 55 days	Sat 2/1/21 Sat 16/1/21	_
3	Installation of Additional sheet Pile at South of area F8A	7 days	Sat 17/4/21	
4	BD Consent for ELS	28 days	Sat 24/4/21	
5	ELS and install CW Inlet Pipe (NW to N direction) (Assume flexible joint deliver in Sep 2021)	100 days	Fri 16/7/21	
5 7	Construction of Thrust Box & Manholes,etc	15 days	Thu 16/9/21	
3	Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area F8B	79 days 483 days	Sun 24/10/21 Fri 4/12/20	<mark>-</mark>
9	Area Possession & Clearance	30 days	Mon 1/3/21	<mark>-</mark>
)	BD consent for Sheetpile installation	30 days	Fri 4/12/20	
1	Install Sheet pile	90 days	Fri 2/4/21	_
2	BD Consent for ELS	28 days	Thu 1/7/21	-
1	ELS and install CW Inlet Pipe Construction of Thrust Box & Manholes,etc	100 days 15 days	Thu 29/7/21 Wed 1/9/21	
5	Backfill, UG Utilities and Road Paving	146 days	Sat 6/11/21	es and Road Paving
3	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	365 days	Fri 12/3/21	<mark>-</mark>
7	Area Possession & Clearance	30 days	Fri 12/3/21	
	Subletting / Fabrication / Delivery (for Area F8C)	60 days	Fri 12/3/21	_
)	BD consent for Sheetpile installation	30 days	Tue 13/4/21	-
,	Install Sheet pile BD Consent for ELS	62 days 35 days	Thu 13/5/21 Wed 14/7/21	-
2	ELS and install CW Inlet Pipe (including soil nail installation under 19/83014)	76 days	Wed 14/7/21 Wed 18/8/21	
3	Construction of Thrust Box & Manholes,etc	30 days	Fri 21/1/22	<u> </u>
‡ 5	Backfill, UG Utilities and Road Paving	20 days	Sun 20/2/22	Paving
	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	377 days	Fri 4/12/20	<mark> </mark>
3	Area Possession & Clearance	30 days	Fri 4/12/20	<mark>-</mark>
7	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	_
3	Complete CW Pipe Installation & Thrust box	45 days	Tue 25/5/21	
,	Backfill	30 days	Fri 9/7/21	
)	Construction of Storm Drain & Manholes	67 days	Mon 20/9/21	_
1 2	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	<u> </u>
	foundations for Gas Exhaust Duct	213 days	111 1/1/21	
3	Area Possession & Clearance	30 days	Fri 1/1/21	
4	Subletting / Fabrication / Delivery (for F6B Civil and E&M)	120 days	Sat 2/1/21	
5	Construction of Underground pits	35 days	Tue 8/6/21	
ŝ 7	Excavation & Construct Pile Caps & Tie Beams & Piers	86 days	Mon 8/3/21 Thu 25/3/21	
8	Installation of Pipe Pile for HRSG foundation (VO) Construction HRSG & Gas Duct foundations	48 days 112 days	Fri 7/5/21	
9	Construction of HRSG Equipment Room incl. ABWF & BS (except T&C)	64 days	Tue 4/5/21	
0	Construction underground utilities within HRSG	55 days	Mon 19/7/21	
1 2	Backfill & Construction on-grade slabs & RC plinths on top	14 days	Fri 30/7/21	
3	Backfill and Temporary paving Section B2 (ii) - Remaining northern part of LI2 HRSG area and its surrounding at Area F6A and F6C	21 days 319 days	Fri 10/9/21 Fri 1/1/21	<mark>- </mark>
	Section B2 (ii) - Hemaining northern part of El2 finod area and its surrounding at Area fox and foo	313 days	111 1/1/21	
1	Area Possessiong and Clearance at Area F6A	30 days	Fri 1/1/21	
5	Subletting / Fabrication / Delivery (for Area F6A and F6C civil)	90 days	Sat 2/1/21	
7	Construction of Underground pits (HRSG Blowdown sump pit)	110 days	Sat 2/1/21	
3	Excavation & Construct Pile Caps & Tie Beams & Piers Construction underground utilities within HRSG	139 days 55 days	Mon 1/2/21 Mon 19/7/21	_
3	Construction of Underground pits (GT Oil & Chemical drain pits)	15 days	Thu 5/8/21	
)	Backfill & Construction on-grade slabs & RC plinths on top	45 days	Sun 12/9/21	_
	Construct RC Walls	90 days	Thu 22/4/21	_
2	Construction of Underground utilities at F6C	21 days	Tue 19/10/21	
1	Backfill and Temporary paving Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the	7 days 452 days	Tue 9/11/21 Fri 4/12/20	<mark>-</mark>
	equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power	102 days	111 7/12/20	<mark> </mark>
	generator, air inlet duct and lube oil reservoir			<mark>-</mark>
	Area Possession & Clearance	45 days	Fri 4/12/20	_
,	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12)	150 days	Fri 25/12/20	
3	Complete excavation at Type A&C Construction Area Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	0 days 75 days	Sun 21/3/21 Sun 31/1/21	
+	Backfill and construction turbine block & equipment foundation	85 days	Tue 1/6/21	
)	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	45 days	Sat 17/4/21	_
	Construction of internal drainage & on-grade slab	90 days	Wed 1/9/21	_
2	Construction turbine block columns and upper portion for plant embed installation	83 days	Wed 25/8/21	-
1	Concrete Turbine upper part foundation Construction of Lube Oil Room	15 days 14 days	Fri 31/12/21 Tue 30/11/21	-
5	Concrete RC walls	115 days	Tue 7/9/21	
3	ABFW Works	60 days	Thu 4/11/21	_
7	Building Services Works	45 days	Sat 15/1/22	og for installation of names gan
9	Remove temporary falsework and scaffolding for installation of power generator Section 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	ng for installation of power generator
	equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser	377 days	FII 4/12/20	
	Area Possession & Clearance	45 days	Fri 4/12/20	
,	Subletting / Fabrication / Delivery (for MSB L12 civil)	150 days	Fri 25/12/20	_
2	Excavation to foundation level at ELS SP Type A & C	80 days	Fri 1/1/21	
1	Install CW Outlet pipe Construction of CW Outlet Box + lowest tie beam & caps	85 days 40 days	Mon 22/3/21 Mon 22/3/21	-
5	Construction of the Caps & tie beams & sump pits up to +2.7mPD	26 days	Sat 1/5/21	
3	Backfill & Construction of CW Inlet Box + tie beams	71 days	Thu 27/5/21]
7	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Tue 15/6/21	_
	Backfill and Construction ground beams & trenches	28 days	Thu 27/5/21	-
3			Fri 13/8/21	The first of the second of the
9	Construction of indoor underground drainage Backfill & construction on grade slabs	14 days 60 days		
9 0	Construction of indoor underground drainage Backfill & construction on-grade slabs Construction Column casting and RC walls & equipment foundations	60 days 50 days	Sun 1/8/21 Thu 30/9/21	



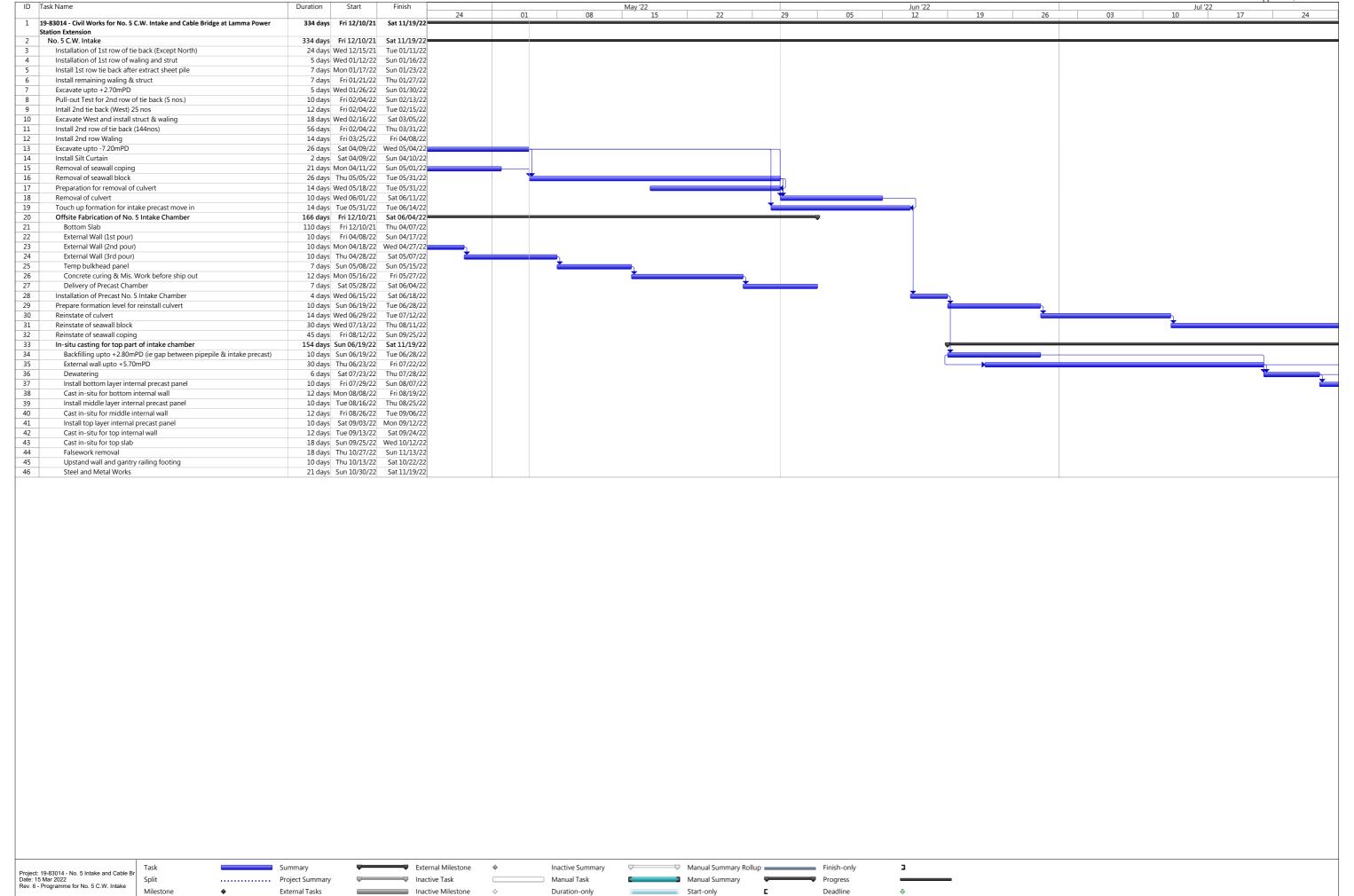
32	ask Name	Duration	Start	May Jun Jul
3	ABFW Works Building Services Works	15 days 20 days	Fri 19/11/21 Fri 26/11/21	_
	Mis. Works and Ready for condenser move in	25 days	Wed 17/11/21	<u> </u>
	Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the	408 days	Fri 4/12/20	<mark></mark>
	southern & eastern areas mentioned above in Area F5			<mark></mark>
+	Area Possession & Clearance	30 days	Fri 4/12/20	_
+	Subletting / Fabrication / Delivery Complete substructure & Steel Erection works for MSB	210 days 0 days	Fri 25/12/20 Tue 17/8/21	-
t	Construction all utilities deeper than 2m from future road level	30 days	Wed 18/8/21	
	Construction of cable trenches	30 days	Fri 17/9/21	
ŀ	Backfill and lay temporary paving	91 days	Sun 17/10/21	_
	Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB	483 days	Fri 4/12/20	<mark>-</mark>
	with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works			<mark>- </mark>
ŀ	Area Possession & Clearance	45 days	Fri 4/12/20	-
	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	
	Construction of pile caps & tie beams at Transformer Area	180 days	Sun 31/1/21	
L	Backfill and on-grade slab at transformer Area	160 days	Sun 11/4/21	_
H	Construction of Fire Walls at Transformer Area	45 days	Fri 8/10/21	_
H	Excavation & Construction Blow Down Sum pit (SP Type B) Preaparation for S.Steelwork Erection	140 days 7 days	Wed 14/4/21 Sat 5/6/21	-
t	Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	67 days	Sat 12/6/21	
	Structural Delivery & Erection (Equipment Floors)	33 days	Wed 18/8/21	
L	Structural Delivery & Erection (Turbine Hall South + East Elevation)	47 days	Mon 20/9/21	
H	Joint Tightening and touch up coating External Scaffolding Erection	99 days	Sat 3/7/21 Thu 15/7/21	
H	Construction 1/F RC Slab	97 days 14 days	Mon 20/9/21	-
H	Construction 7/ RC Slab	7 days	Mon 27/9/21	
	Construction 3/F RC Slab	18 days	Thu 30/9/21	_
Ĺ	Construction 4/F RC Slab	7 days	Thu 7/10/21	_
H	Construction 5/F RC Slab	44 days	Mon 25/10/21	_
H	Construction 6/F RC Slab Construction Upper Roof RC Slab	14 days 10 days	Wed 1/12/21 Sun 12/12/21	-
H	Construction Upper Roof RC Slab	39 days	Tue 12/10/21	<u> </u>
	Construction Defer Roof RC Slab (G.L. G-H)	14 days	Wed 1/12/21	_
Ĺ	Construction of Staircase ST-01 & lift shaft & machine room	130 days	Fri 27/8/21	_
H	Construction M/F RC Slab	14 days	Wed 1/9/21	_
H	Lift Installation Construction of Staircase ST-02 except defer work	60 days 68 days	Tue 4/1/22 Mon 11/10/21	-
H	Construction of Staircase 51-02 except defer work Construction of RC plinth, kerbs & parapet Walls	40 days	Sat 20/11/21	_
İ	Erection of Skylight & Roof Features	50 days	Fri 26/11/21	_
	Waterproofing & Flooring at Roof	34 days	Thu 30/12/21	_
L	ABFW Works	100 days	Fri 8/10/21	_
H	Building Services Works Metal Cladding, Windows and Louvres incl. roof feature	105 days 185 days	Tue 16/11/21 Mon 23/8/21	ıcl. roof feature
H	Removal of external scaffolding	90 days	Wed 1/12/21	- · · · · · · ·
	Installation of Catwalk at south elevation	26 days	Mon 31/1/22	tion
	Cladding, ABWF & BS Works	30 days	Wed 2/3/22	BS Works
L	Removal of tempoary works & clearance for plant erection contractor	30 days	Sun 30/1/22	ice for plant erection contractor
	Section C - (iii) Link Bridge between L11 and L12 MSB includin their associated A&A at L11 MSB	493 days	Fri 4/12/20	<mark>-</mark>
	BD Consent	0 days	Fri 4/12/20	_
	Subletting / Fabrication / Delivery (For BS and ABWF)	250 days	Fri 25/12/20	
	Clearing Works and plant set-up	30 days	Fri 3/12/21	_
F	Dismantle of north scaffold for link bridge erection	0 days	Tue 25/1/22	_
H	A&A works at South of L11 MSB Erection of link bridge structural steel	30 days	Fri 3/12/21 Sun 2/1/22	_
1	Casting of bridge deck	30 days 11 days	Tue 1/2/22	-
t	Metal roofing installation	24 days	Sat 12/2/22	
	ABWF work	30 days	Sun 20/2/22	
H	BS Works Ready for power cable laying work by others	20 days 0 days	Tue 22/3/22 Sun 10/4/22	power cable laying work by others
h	Section D - (ii) No. 5 Chimney with L12 Steel Flue Liner	810 days	Fri 1/1/21	c.D(v)
ľ	Area Possession & Clearance	45 days	Fri 1/1/21	
	Subletting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment)	120 days	Fri 8/1/21	
	Excavation & Pile Cap & Backfill	90 days	Sat 2/1/21	
H	Tower Crane erection Construction of Wind Shiled + clearance for internal floors and flue+Ground slab	30 days	Tue 11/5/21	Wind Shiled + clearance for internal floors and fl
H	Structural steel fabrication & Delivery for floors and staircase	308 days 201 days	Fri 2/4/21 Mon 3/1/22	Wild Silled + Clearance for Internal Hoors and II
t	Erection of steel floors	79 days	Tue 19/4/22	Erecti
	Construction of G/F room incl. Microwave Antenna Rm	45 days	Thu 7/7/22	
Ĺ	Construction of 1/F RC slab	8 days	Sat 13/8/22	_
H	Construction of 2/F RC Slab	8 days	Fri 5/8/22	_
H	Construction of 3/F RC slab Construction of 4/F RC slab	8 days 8 days	Thu 28/7/22 Thu 7/7/22	
l	Construction of Roof RC slab	61 days	Tue 21/6/22	_
	Removal of tower Crane	7 days	Sun 21/8/22	
L	Steel Flue fabrication and delivery	145 days	Sat 5/3/22	
H	Set up for steel flue installation	60 days	Tue 5/7/22 Thu 28/7/22	_
H	Lift & install steel flue liner + cladding works Lift installation	161 days 100 days	Thu 28/7/22 Mon 12/12/22	-
H	Installation Louvre & Doors	30 days	Thu 5/1/23	
	Mis works, Demobilization and ready for gas duct connection	17 days	Thu 5/1/23	_
	Section D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for	102 days	Tue 1/3/22	□ 10 Jun '22
	installation of microwave and antenna	0.1	T 4 (0 (0 0	
	Completion of Microwave Antenna Room Remaining ARWE & RS Works	0 days	Tue 1/3/22	oom Remaining ABWF & B
	Remaining ABWF & BS Works Section E - (i) Administration and Control Building (Transformer Room)	100 days 332 days	Thu 3/3/22 Fri 4/12/20	
ſ	Area Possession & Clearance + BD consent	60 days	Fri 4/12/20	7
	Subletting / Fabrication / Delivery (For Civil+BS+ABWF)	100 days	Tue 2/2/21	
Ĺ	Excavation works	45 days	Fri 4/12/20	_
F	Main Earth Grid Installation	45 days	Sun 3/1/21	-
H	Pile cap and Tie Beam Tower Crane Erection and modification works	45 days 49 days	Sun 3/1/21 Wed 10/2/21	-
H	Substructure + Bearing walls + On grade slabs	115 days	Wed 10/2/21 Wed 17/2/21	-
	Construction of RC up to 1/F incl. staircases	69 days	Sat 12/6/21	
Ĺ	ABWF at G/F	52 days	Fri 10/9/21	_
ļ	Section E (ii) Handover G/F, 1/F, 2/F & Hoisting Well	452 days	Fri 4/12/20	-
-	Clearing Works and plant set-up	21 days	Sun 31/10/21	_ <u> </u>
1	Subletting / Fabrication / Delivery (For NSC Lift) Construction of RC up to 2/F incl. staircases	180 days 25 days	Sun 3/1/21 Sat 14/8/21	-
H	Construction of RC up to 3/F incl. staircases Construction of RC up to 3/F incl. staircases	25 days 20 days	Sat 14/8/21 Thu 2/9/21	-
İ	Tempoary Hoist erection	14 days	Wed 22/9/21	<u> </u>
_		y -		
	Task Split Milestone ♦	Summary		
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Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit Master Programme 280 Construction of RC up to 4/F incl. staircases 20 days Thu 16/9/21 Construction of RC up to R/F incl. staircases Construction of RC up to Iff machine room Construction of RC up to UR/F External Wall Finish, Cladding + Windows and Louvres + Features 281 25 days Thu 30/9/21 21 days Mon 25/10/21 Mon 15/11/21 Thu 30/9/21 283 138 days 285 ABWF at 1/F 95 days Fri 8/10/21 286 96 days 287 Building Services Works at G/F, 1/F, 2/F & Hoisting Well 147 days Tue 5/10/21 Submission of WW046 for commencement **544 days** 127 days Fri 4/12/20 Sat 23/10/21 288 Mon 20/3/23 Wed 19/1/22 290 60 days 291 60 days 292 ABWF at 3/F 120 days Mon 25/10/21 ABWF at 4/F ABWF at R/F Wed 24/11/21 Wed 15/12/21 293 90 days 60 days ABWF at UR/F + Lift Machine Room Bridge Erection & Connection Installation of Raised floors 45 days 28 days Wed 5/1/22 Mon 7/2/22 Fri 7/1/22 296 297 60 days Removal of external scaffolding Waterproofing & screeding Removal of Tower Crane 39 days 60 days Mon 24/1/22 Mon 6/12/21 298 299 7 davs Thu 10/3/22 Tue 8/2/22 Tue 7/12/21 nd road work 301 External utiliites and road work 45 days False celling after BS works Building Services Works 160 days False ceiling after BS works Submission of WW046 for completion Submission of FS inspection 54 days 30 days 303 304 Tue 29/3/22 Wed 9/3/22 Fri 13/5/22 f WW046 for completion 14 days Submisision for OP Inspection Section F (i) - Gas Receiving Station Equipment Room (GRS) Area 14 days 548 days 306 Wed 18/5/22 Submisision for OP Inspection 307 Tue 1/6/21 Extension at Area F14 308 Area Possession & Clearance + BD consent Tue 1/6/21 90 days Subletting / Fabrication / Delivery Installation of pipe pile at north of GRS (VO) Construction Equipment room extension Modification of existing drainage Excavation & earthing for Skid foundations 30 days 134 days 145 days Tue 22/6/21 Mon 5/7/21 Sun 31/10/21 309 310 45 days 21 days 312 Fri 25/3/22 Modification of xisting drainage 313 Mon 9/5/22 Excavation & earthing 314 Construction of Skid foundation 45 days Mon 30/5/22 Constru Construct underground utilities and drainage Backfill and road works 45 days 60 days Thu 14/7/22 Sun 28/8/22 315 Relocate / install new fencing for completion Mis. Work and ready for OP inspection Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B BD consent + Site Possession at Area F9A & F9B 317 21 days 14 days Thu 27/10/22 318 Thu 17/11/22 319 515 davs Sat 2/1/21 Sat 2/1/21 Mon 1/11/21 320 Excavation & Plate load test 30 days Construction new footing for pipe rack Underground utilites and road works for completion 322 30 days Wed 1/12/21 11 days Thu 31/3/22 Structural Steel fabrication & Delivery 90 days Sat 2/10/21 Ercetion of new pipe rack Mis. Work and ready for OP inspection Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10 Area Possession & Clearance + BD consent 70 days 21 days Fri 31/12/21 Wed 11/5/22 325 326 Mis. Work and ready for OP insp 457 days 327 Tue 1/6/21 328 90 days Tue 1/6/21 Subletting / Fabrication / Delivery For ABWF + BS Installation of Sheet Pile (VO) Consent for ELS Works 329 150 days Wed 2/6/21 330 85 days Tue 1/6/21 28 days Wed 25/8/2 30 days 68 days 332 Excavation & Plate load test Wed 22/9/21 333 Construction new footing for equipment room Thu 23/12/21 Superstructure for equipment room 60 days Tue 1/3/22 ABWF Works Sat 30/4/22 Wed 1/6/22 Wed 30/3/22 335 45 days ABWF Work 336 30 days Construction RC Wall & plinths & drainage at Ch Construction RC Wall & plinths & drainage at Chlorinator area External wall finish & remove scaffolding Excavation & Plate load test for pipe rack extension (For F45-47 & F49) 33 45 davs Sat 14/5/22 Sat 16/10/21 338 30 days wall finish & rem 339 340 30 days Construction new footing for pipe rack (For F45-47 & F49) Underground utilities and road works for completion Structural Steel fabrication & Delivery Mon 15/11/21 Thu 30/12/21 45 days 341 60 days 90 days Sun 12/12/21 Backfilling and prepare for steel erection Excavation & Plate Load test for pipe rack extenstion (For F48 F56) 12 days 14 days Mon 28/2/22 Wed 30/3/22 343 344 Construction of new footing for pipe rak (For F48 & F56) Erection of new pipe rack (For F48 & F56) Erection of new pipe rack (For F45-47 & F49) Wed 13/4/22 Tue 3/5/22 Sat 12/3/22 struction of new footing for pipe rak (For F48 & F56) 345 14 days 65 days 346 347 Erection of new pipe rack (For F45-47 & F49 70 days Mis. Work and ready for OP inspection section G (i) - External Work surrounding Area F11 Thu 7/7/22 Sat 4/6/22 4 56 days 349 4 Jun '22 🖫 145 days Area Possession & Clearance after handover from No. 5 Intake Contractor Subletting / Fabrication / Delivery Sat 4/6/22 350 30 days Area Possessi 351 30 days Sat 4/6/22 Subletting / Fabr Submission WWO046 for commencement Sat 4/6/22 30 days Construct Underground utilities and drainage Install new FS Hydrant 30 days 20 days Mon 20/6/22 Mon 20/6/22 353 Cons 354 Submission WWO046 for completeion 355 30 davs Sat 30/7/22 356 Construction Road extension Sat 30/7/22 35 Construction road paving and install fencing 30 days Mon 26/9/22 358 Ready for OP inspection Section G (ii) - External Works at Area F12 & F13 14 days Thu 13/10/22 359 Fri 4/12/20 666 days 45 days 360 Area Possession & Clearance after handover from other Fri 4/12/20 361 Subletting / Fabrication / Delivery 180 days Thu 4/3/21 Sat 23/10/21 Excavation 21 days 30 days 90 days Sat 13/11/21 Mon 13/12/21 363 Submission WWO046 for commencement Construct Underground utilities and drainage Install new FS Hydrant Submission WWO046 for completion Construction Road extension 30 days 30 days 127 days FS Hydrant 365 Sun 13/3/22 366 Tue 12/4/22 Thu 12/5/22 on WWO046 for co 367 Complete with Mis. Works for completion ection G (iii) - FS Modification works along South Seafront Road at Area F15 368 15 days Fri 16/9/22 369 183 days 370 Area Possession & Clearance after handover from other 45 days Fri 1/4/22 Area Possession & Clea 371 Subletting / Fabrication / Delivery 21 days Fri 1/4/22 Fri 1/4/22 etting / Fabrication / Delivery Temporary Traffice Arrangement approval 14 days Utilities scanning and expose existing FS Determine new FS alignment 14 days 21 days Fri 15/4/22 Fri 29/4/22 373 canning and expose existing FS 374 ermine new FS ali Submission to FSD 14 days Fri 20/5/22 376 Modification of FS 60 days Fri 3/6/22 377 Backfill and reinstatment + report to FSD Tue 2/8/22 60 days 518 days 378 ection G (iv) - 275kV cable trenches and External Works at Area F16 Sat 1/5/21 Area Possession & Clearance 379 Sat 1/5/21 60 days 210 days Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval Wed 17/11/21 381 60 days Sat 1/5/21 MASTER PROGRAMME Split Milestone • Paul Y Rev 1-B 23 Aug 2021

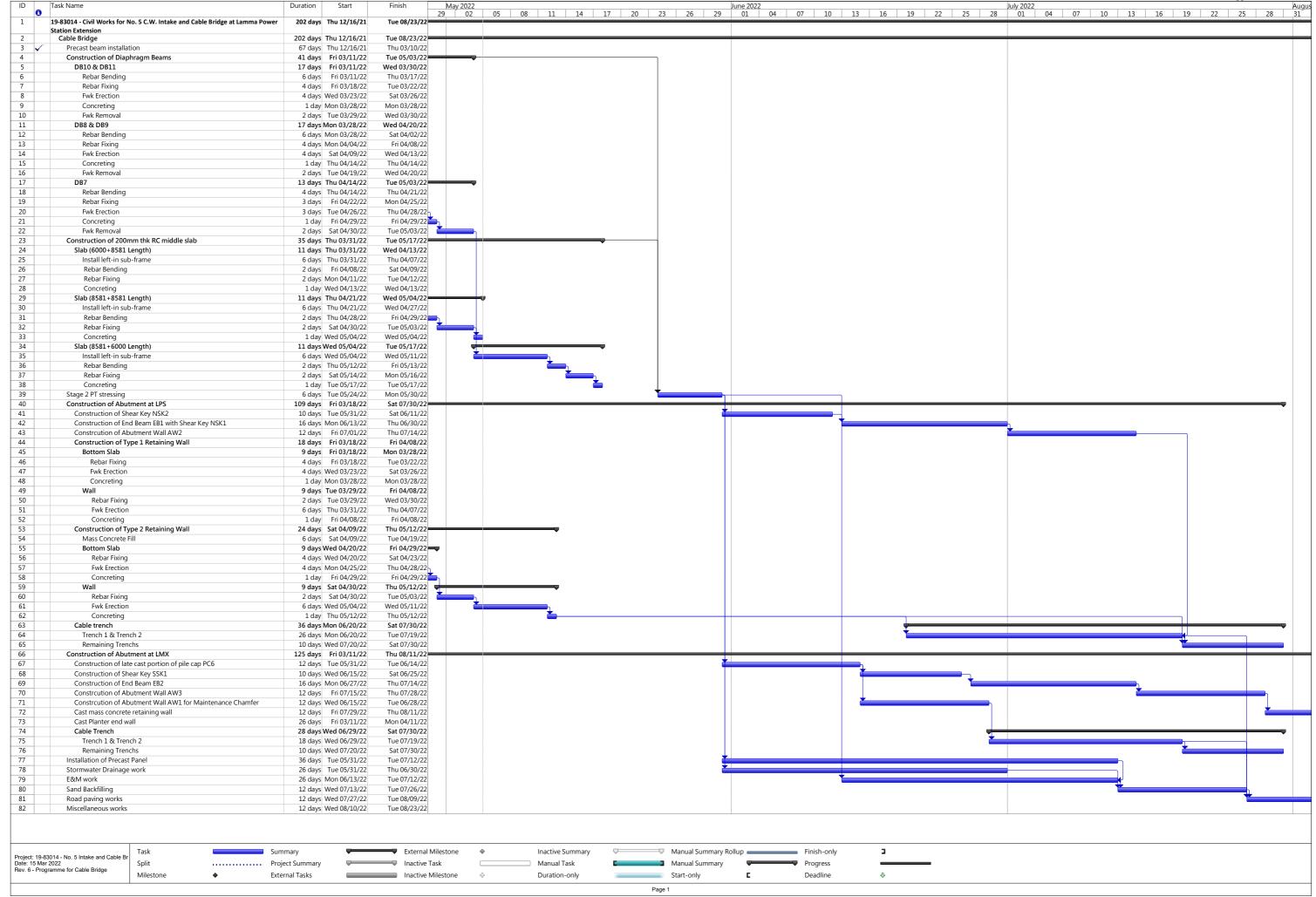
Si	Removal of aboveground services Utilities scanning and expose exising UU Arrange of diversion existing UG utilities Construct new cable trenches Realigment / install new UG utilities Backfill and reinstate & ready for cable laying by others section G (v) - Shunt Reactor Compound and External Works at Area F17 Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery BD approval & consent for pipe pile installation Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU Arrange of diversion existing UG utilities	60 days 30 days 90 days 173 days 60 days 45 days 45 days 100 days	Wed 30/6/21 Sun 29/8/21 Tue 28/9/21 Mon 27/12/21 Sat 18/6/22 Wed 17/8/22 Fri 4/12/20		Con	struct n	
So	Arrange of diversion existing UG utilities Construct new cable trenches Realigment / install new UG utilities Backfill and reinstate & ready for cable laying by others section G (v) - Shunt Reactor Compound and External Works at Area F17 Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery BD approval & consent for pipe pile installation Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU	90 days 173 days 60 days 45 days 666 days 45 days	Tue 28/9/21 Mon 27/12/21 Sat 18/6/22 Wed 17/8/22			struct n	
Se	Construct new cable trenches Realigment / install new UG utilities Backfill and reinstate & ready for cable laying by others ection G (v) - Shunt Reactor Compound and External Works at Area F17 Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery BD approval & consent for pipe pile installation Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU	173 days 60 days 45 days 666 days 45 days	Mon 27/12/21 Sat 18/6/22 Wed 17/8/22			struct n	
Se	Backfill and reinstate & ready for cable laying by others setion G (y) - Shunt Reactor Compound and External Works at Area F17 Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery BD approval & consent for pipe pile installation Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU	45 days 666 days 45 days	Wed 17/8/22	_	9		aw cabi
Se	Section G (v) - Shunt Reactor Compound and External Works at Area F17 Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery BD approval & consent for pipe pile installation Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU	666 days 45 days					
Si	Temporary Traffice Arrangement approval Subletting / Fabrication / Delivers BD approval & consent for pipe pile installation Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU	45 days		c.E4			
Si	Subletting / Fabrication / Delivery BD approval & consent for pipe pile installation Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU		Fri 4/12/20				
Sı	Area Possession & Clearance Removal of aboveground services Utilities scanning and expose exising UU		Fri 25/12/20				
Se	Removal of aboveground services Utilities scanning and expose exising UU	90 days	Fri 4/12/20				
Se	Utilities scanning and expose exising UU	14 days 21 days	Thu 4/3/21				
Si		15 days	Thu 18/3/21 Thu 8/4/21				
Sı		45 days	Fri 23/4/21				
Si	Install pipe piles	61 days	Sun 23/5/21				
Sı	BA14 for pipepile and BD consent for ELS	28 days	Fri 23/7/21				
Se	Excavation & install earthing Construct Pile Caps and Tie Beams	35 days 45 days	Fri 20/8/21 Fri 24/9/21				
Sı	Backfill & Erect scaffold	21 days	Mon 8/11/21				
Sı	Construction of SRC Walls	75 days	Mon 29/11/21				
S	Wall finish and remove scaffolding	24 days	Sat 12/2/22	lg Control			
S	Construct 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	Construct new cabl	all new UG	Utilties.	Backfi
S	Realigment / install new UG utilities (for DAX2, APX1 & APX3)	117 days	Sat 7/5/22	4			
	Backfill and reinstate & ready for cable laying by others (for DAX2, APX1, & APX3)	30 days	Thu 1/9/22				
	ection G (vi) - 275kV cable trenches and External Works at Area F18	397 days	Sat 1/5/21	c.E4 📮 1 、	Jun '22		
	Temporary Traffice Arrangement approval	45 days	Sat 1/5/21	_			
	Subletting / Fabrication / Delivery Area Possession & Clearance	60 days 15 days	Tue 15/6/21 Sat 1/5/21	-			
	Removal of aboveground services	30 days	Sun 16/5/21				
	Utilities scanning and expose exising UU	45 days	Tue 15/6/21				
	Arrange of diversion existing UG utilities	60 days	Fri 30/7/21	hoo			
	Construct new cable trenches Realigment / install new UG utilities	172 days 45 days	Tue 28/9/21 Sat 19/3/22	hes Realigment / install ne	w UG utiliti	es	
	Backfill and reinstate & ready for cable laying by others	30 days	Tue 3/5/22		ckfill and re		ready
	ection G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A	521 days	Fri 4/12/20	8 May '22			
	Area Possession & Clearance	30 days	Fri 4/12/20	_			
	Subletting / Fabrication / Delivery	60 days	Fri 25/12/20	⊣			
	Temporary Traffice Arrangement approval ELS BD approval & consent	300 days 90 days	Fri 4/12/20 Fri 18/12/20	- I			
	Demolition of existing carriageway	30 days	Thu 11/11/21				
	Removal of aboveground services	21 days	Thu 30/9/21				
	Utilities scanning and expose exising UU	21 days	Thu 21/10/21				
	Arrange of diversion existing UG utilities	30 days	Sat 11/12/21	n of new Flood wall			
	Excavation and construction of new Flood wall Realigment / install new UG utilities	65 days 30 days	Mon 10/1/22 Wed 16/3/22	nt / install new UG utiliti	es		
	Backfill and construct new carriageway	18 days	Fri 15/4/22	Backfill and construct	I	jeway	
	Mis. Work for completion	6 days	Tue 3/5/22	Mis. Work for com	pletion		
	ection G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	365 days	Fri 1/10/21				
	Area Possession & Clearance	45 days	Fri 1/10/21				
	Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	90 days 14 days	Fri 22/10/21 Fri 1/10/21				
	ELS BD approval & consent	90 days	Fri 15/10/21				
	Demolition of existing carriageway	60 days	Fri 1/10/21				
	Removal of aboveground services	21 days	Tue 30/11/21				
	Utilities scanning and expose exising UU Arrange of diversion existing UC utilities	21 days	Tue 21/12/21				
	Arrange of diversion existing UG utilities Install Sheetpiles	30 days 55 days	Tue 11/1/22 Thu 10/2/22	es			
	BA14 for sheetpile and BD consent for ELS	28 days	Wed 6/4/22	BA14 for sheetpile an	d BD conse	nt for E	ı.s
	Excavation and construction of new Flood wall	90 days	Wed 4/5/22	×			
	Realigment / install new UG utilities	30 days	Tue 2/8/22				
	Backfill and construct new carriageway Mis. Work for completion	21 days 9 days	Thu 1/9/22 Thu 22/9/22				
	ection G (ix) - Bund wall modification works at South Seafront Road at Area F21	316 days	Fri 4/12/20				
	Area Possession & Clearance	45 days	Fri 4/12/20				
	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20				
	Temporary Traffice Arrangement approval ELS BD approval & consent	165 days 0 days	Fri 4/12/20 Thu 17/12/20				
	Demolition of existing carriageway	14 days	Tue 18/5/21				
	Removal of aboveground services	14 days	Tue 1/6/21				
	Utilities scanning and expose exising UU	21 days	Tue 15/6/21	_			
	Arrange of diversion existing UG utilities (include FS pipe under 17/8002) Excavation and expose existing bund wall & demolish	40 days 18 days	Tue 6/7/21 Wed 28/7/21	-			
	Excavation and expose existing bund wall & demolish Construction new bund wall for road junction	21 days	Sat 4/9/21	-			
	Realigment / install new UG utilities (include FS pipe under 17/8002)	60 days	Sun 1/8/21				
	Backfill and construct new carriageway	16 days	Thu 30/9/21	_			
	Mis. Work for completion ection Works (from Part I to Part IV)	5 days	Mon 11/10/21 Fri 4/12/20				
	Temporary Traffice Arrangement approval	758 days 14 days	Fri 4/12/20 Fri 4/12/20				
	Subletting / Fabrication / Delivery	90 days	Fri 25/12/20	_			
	Area Possession & Clearance	45 days	Fri 4/12/20				
	Identification of existing cable trench	7 days	Mon 18/1/21	-			
	Part 1 Re-excavation works incl.construction of joint bay (at Water Reservoir Road) Part 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	246 days 310 days	Mon 25/1/21 Mon 25/1/21	-			
	2	J.J days					
	Part 2 Re-excavation works incl. joint bay	120 days	Mon 1/11/21	bay			
	Part 3 Re-excavation works incl. joint bay	242 days	Mon 1/11/21			Part	3 Re-e
	Part 4 Re-excavation works incl. joint bay & new oil tank pits Backfill & Reinstatement Part 1	92 days 61 days	Sat 1/10/22 Mon 1/11/21	- I			
	Backfill & Reinstatement Part 2	61 days	Sun 1/5/22			Вас	kfill & I
	Backfill & Reinstatement Part 3	61 days	Thu 1/9/22				\vdash
	ection H - All remaining works shall be completed for reporting completion to BD and ready for OP	775 days	Wed 17/11/21	c.K3			
	spection (PS1.4.4)	070 -1	We 1 47/11/01				
	Deferred 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				
	Employer's Specialist Contractors	oo uays	***GU 17/11/21				
	Construction of walls of L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircases	92 days	Mon 16/5/22				
	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 Provision in associated with hoisting well	21 days	Mon 6/6/22			Provis	ion in a
	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	Sat 16/4/22	Construction	of internal p		
	1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C	•			1		"
	Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable	92 days	Mon 16/5/22	F			
	shelter at Transformer Area						
	PROGRAMME Task Split Milestone ♦	Summary	Q				
-B 2	PAULY Task Split Milestone ♦	,					

9 T	Deferred works (DAX1 and DAX2) Listed in PS 1.4.4	Duration 334 days	Start Wed 1/2/23	May	Jun		Jul
)	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	1		\dashv	
t	Re-excavation of whole DAX2 compartment inside existing joint bay "STJI2".	61 days	Tue 1/8/23			Ч	
	Backfilling of whole DAX2 compartment inside existing joint bay "STJI2" and the new oil tank pit B located aside existing joint bay "STJI2".	61 days	Wed 1/11/23				
	Deferred works (External Work) Listed in PS 1.4.4 Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area	121 days 62 days	Thu 1/12/22 Thu 1/12/22	4			
	·	•					
	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				
F	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			$\overline{}$	
S	STATUTORY SUBMISSION, INSPECTION & APPROVAL	560 days	Tue 16/11/21				
	WSD Statutory Submission, Inspection and Approval WWO Part I to III Submission / Approval WSD: Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)	256 days 0 days	Tue 16/11/21 Tue 16/11/21				
	WSD: Vetting Form WWO 046 Part I and II Submission	90 days	Wed 17/11/21	mission			
	WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building WSD: Prepare for 1st Amendment for Plumbing Plan	0 days 60 days	Tue 15/2/22 Tue 15/2/22	SD - FOR ACB Building epare for 1st Amendme		ing Plan	
	WSD: Submit to WSD 1st Amendment for Plumbing Plan WSD: Vetting of Plumbing Plan by WSD	0 days 60 days	Fri 15/4/22 Sat 16/4/22	ubmit to WSD 1st Ame	ndment for Pl WSD:		
	WSD: 1st Approval for Plumbing Plan by WSD	0 days	Tue 14/6/22		WSD	1st App	roval fo
	WSD: Prepare and Submit for Final Amendment for Plumbing Plan WSD: Vetting and Final Approval for Plumbing Plan by WSD	45 days 0 days	Wed 15/6/22 Fri 29/7/22		4		
	WSD Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission /	33 days	Fri 29/7/22				
	Approval WSD: Form WWO 046 Part IV Submission (FS)	0 days	Fri 29/7/22	-			
	WSD: WSD Recieved Form WWO046 Part IV and arrange for inspection (FS) WSD: WSD Inspection (FS)	7 days 7 days	Sat 30/7/22 Sat 6/8/22	7			
	WSD: WWO 046 Part V Endorsement by WSD (FS)	12 days	Sat 13/8/22				
	WSD: WSD Processing Water Supply Connection Certificate (FS) WSD: Issue by WSD Water Supply Connection Certificate (FS)	7 days 0 days?	Thu 25/8/22 Wed 31/8/22	_			
	WSD Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission /	60 days	Fri 19/8/22				
	Approval WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 19/8/22	1			
	WSD: WSD Acknowledge Form WWO 046	6 days	Sat 20/8/22				
	WSD: WSD Inspection with Testing to lead (Fresh/Fluhs) WSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush)	12 days 6 days	Fri 26/8/22 Wed 7/9/22				
	WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush) WSD:Accredited Lab Testing Report of Sample to WSD	12 days	Tue 13/9/22 Sun 25/9/22				
	WSD: Vetting of Test Report by WSD	12 days 6 days	Fri 7/10/22				
	WSD: Issue of WWO 046 Part V (Fresh/Flush) WSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	0 days 6 days	Wed 12/10/22 Thu 13/10/22				
	WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush)	0 days	Tue 18/10/22				
	EMSD LIFT Statutory Submission, Inspection and Approval EMSD: Submission of Lift Form LE5 to EMSD	45 days 12 days	Sat 26/3/22 Sat 26/3/22	9 May '22 ssion of Lift Form LE5 t	to EMSD		
	EMSD: EMSD Makes arrangement for Lift Installation	5 days	Thu 7/4/22	SD Makes arrangement MSD: EMSD Inspection			
	EMSD: EMSD Inspection to Lift Installation EMSD: Processing Lift Certificate (Form LE6)	14 days 14 days	Tue 12/4/22 Tue 26/4/22	EMSD: Processi			rm LE6
	EMSD: Lift Issuance of Form 6 (Lift Certificate) HKE Transformer Final Inspection	0 days 120 days	Mon 9/5/22 Thu 30/6/22	EMSD: Lift Issu	ance of Form 30 Jun '22		ertifica
	TX Room: Invite HKE For Transformer Room Inspection	7 days	Thu 30/6/22		00 0uii 22		
	TX Room: Give Access to Transformer Room for HKE Contractor TX Room: Move-IN HKE Transformer Equipments	0 days 5 days	Wed 6/7/22 Thu 7/7/22	_		1	TX Ro
	TX Room: Install HKE Transformer, MEP Works & Testing	90 days	Tue 12/7/22			q	
	TX Room: HKE Power Energization / Inspection TX Room: Metering Installation	6 days 12 days	Mon 10/10/22 Sun 16/10/22	-			
	TX Room: HKE Power-ON Date	0 days	Thu 27/10/22				
	DSD: CCTV Survey Report on Completed Drainage	65 days 30 days	Sun 2/10/22 Sun 2/10/22				
	DSD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit DSD: Completed Drainage System including TMC Inspection/Technical Audit by DSD	7 days 14 days	Tue 1/11/22 Tue 8/11/22				
	DSD: Preparation of Drainage Connection Completion Memo by DSD	14 days	Tue 22/11/22				
	DSD: Issue of Drainage Connection Completion Memo by DSD EPD Submission, Inspection and Approval	0 days 60 days	Mon 5/12/22 Thu 30/6/22		30 Jun '22	2	
	EPD: License Application to EPD under APCO (Cap 311) for Generator Sets	0 days	Thu 30/6/22	_	l	₩ EPD): Licer
	EPD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets EPD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	60 days 0 days	Fri 1/7/22 Mon 29/8/22			7	
	FSD VAC Statutory Submission, Inspection and Approval Preparation of FSD VAC Drawings and Submission to HEC	150 days 60 days	Wed 20/7/22 Wed 20/7/22	4		20 Jul	1 '22 🥊
	HEC: Review and Approval	30 days	Sun 18/9/22				
	Preparation of VAC Drawings and Submission to FSD FSD: Review and Approval	30 days 30 days	Tue 18/10/22 Thu 17/11/22	-			
	FSD Statutory Submission, Inspection and Approval	91 days	Tue 28/2/23	4			
	Testing and Commissioning (Individual System - FSI Related) FSD: All Sections FS Ingration Test by NSC BS	45 days 15 days	Tue 28/2/23 Fri 14/4/23	-			
	FSD: Completion of FS Integration Test by NSC_BS for FS314/501	0 days	Fri 28/4/23]			
	FSD: Submit Form 213/314 & Form 501 Request for Inspection FSD: FSD Makes Arrangement for Inspection	0 days 7 days	Fri 28/4/23 Sat 29/4/23				
	FSD: FSD Inspection FSD: Completion of FS Inspection	12 days 0 days	Sat 6/5/23 Wed 17/5/23	-			
	FSD: FSD Processing FS Certicate Form 172	12 days	Thu 18/5/23				
	FSD: Issue of Fire Services FS Certificate Form 172 PRACTICAL COMPLETION	0 days 216 days	Mon 29/5/23 Tue 30/5/23				
	BD Inspection	97 days	Tue 30/5/23				
	BD: Application Form BA13 for OP Application BD: BD Inspection Date	21 days 15 days	Tue 30/5/23 Tue 20/6/23	-			
	BD: Reinspection date with defects and rectification works	60 days	Wed 5/7/23	1			
	BD: Obtain Occupation Permit (OP) from BD As-Built Drawings & Handover Documentation	1 day 120 days	Sun 3/9/23 Wed 14/6/23				
	Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Wed 14/6/23	7			
	Review and Approval As-Built Drawings & Handover Documentation - Revision by MC	45 days 30 days	Sat 29/7/23 Tue 12/9/23				
	Revised As-Built Drawings & Handover Documentation - Final Submission Completion of the Whole Contract Works	0 days 119 days	Wed 11/10/23 Mon 4/9/23	_			
	1st Client Inspection for Review and Comments	30 days	Mon 4/9/23				
	Defects and Rectification works 2nd Client Inspection	60 days 14 days	Wed 4/10/23 Sun 3/12/23	_			
	Minor Defects Rectification Works and Final Inspection	15 days	Sun 17/12/23				
	PRACTICAL COMPLETION	0 days	Sun 31/12/23				





Page 1



TAIHEI DENGYO KAISHA.LTD. 20th-Oct-2021 Construction Schedule of Unit-12 Rev.5a タスク名 開始日 終了日 先行タスク 2021年 第2四半期 2021年 第3四半期 2021年 第4四半期 2023年 第1四半期 2022年 第1四半期 2022年 第2四半期 2022年 第3四半期 2022年 第3四半期 2023年 第1四半期 2023年 第2四半期 2023年 第2四半期 2023年 第2四半期 2023年 第2四半期 2023年 第2四半期 2023年 第3四半期 2023年 第3四半期 2023年 第1四半期 2023年 第1四半期 2023年 第3四半期 2023年 第3四半期 2023年 第1四半期 2023年 第1四半期 2023年 第3四半期 2023年 第3四半期 2023年 第3四半期 2023年 第3回半期 2023年 2021年 第2四半期 Ø Key Date Kev Date 527日 21/10/01(金) 23/06/07(水) 2 H/O HRSG Foundation 1日 21/10/01(金) 21/10/01(金) H/O HRSG Foundation → 10/01 H/O OHC Installation 18 21/11/01(月) 21/11/01(月) 3 H/O OHC Installation → 11/01 H/O Condenser foundation 21/12/15 (7k) 21/12/15 (7k) 1日 H/O Condenser foundation → 12/15 H/O Aux. equipment foundation of HRSG north side 21/11/15(月) 21/11/15(月) H/O Aux. equipment foundation of HRSG north side < 11/15 H/O GT Exhaust duct foundation (Assumed) 22/02/01 (火) 22/02/01 (火) 1日 H/O GT Exhaust duct foundation (Assumed) ◆ 02/01 H/O MSB East side (Assumed) 22/02/01 (火) 22/02/01 (火) H/O MSB East side (Assumed) → 02/01 8 🏢 MSB Full access (Except P/T foundation) 1日 22/01/15(土) 22/01/15(土) MSB Full access (Except P/T foundation)→ 01/15 H/O Foundation around CCW-Cooler 22/01/15(土) 22/01/15(土) H/O Foundation around CCW−Cooler ◆ 01/15 H/O Foundation around Transformer 18 22/03/10(木) 22/03/10(木) H/O Foundation around Transformer • 03/10 11 | | H/O Foundation of Powertrain 22/04/15(金) 22/04/15(金) 18 H/O Foundation of Powertrain → 04/15 Delivery date of Powertrains (GT,GEN,ST,GEN Tx) 22/04/15(金) 22/04/20(水) 5日 12 Delivery date of Powertrains (GT.GEN.ST.GEN Tx) ◆ 04/20 13 O/B GT & GEN 1日 22/07/15(金) 22/07/15(金) O/B GT & GEN → 07/15 22/11/15(火) 22/11/15(火) 14 Power Receiving 18 Power Receiving 11/15 15 H/O Foundation of No5 Intake area 1 日 22/09/30(金) 22/09/30(金) H/O Foundation of No5 Intake area • 09/30 Hydrostatic test ◆ 12/03 16 | | | | Hydrostatic test 10日 22/12/03 (±) 22/12/14 (7k) 17 Beginning Closed cooling water system flushing (Target) 1日 22/12/14 (7k) 22/12/14 (7k) 18SS-30 FI Beginning Closed cooling water system flushing (Target) 12/14 18 Receiving Lube Oil 18 23/01/18 (7k) 23/01/18 (7k) 208SS Receiving Lube Oil 01/18 Beginning CW system commissioning 1日 23/02/10(金) 23/02/10(金) 18SS+20 FI 19 Beginning CW system comm GT First Firing 05/08 20 GT First Firing 23/05/08(月) 23/05/08(月) 213 1日 Synchronization 1日 23/06/07 (水) 23/06/07 (水) 20FS+25日 Synchronization > 06/07 22 577日 21/10/01(金) 23/08/04(金) 23 HRSG 24 Make the condition for construction 21/10/01(金) 21/10/02(土) 2SS Make the condition for construction Center line marking 3日 21/10/01 (金) 21/10/04 (月) 24SS Center line marking 26 Chipping 15日 21/10/01(金) 21/10/18(月) Chipping 27 10日 21/10/05(火) 21/10/15(金) 26SS+3 ⊟ Packer setting Packer setting 28 Lav down Pipes under HRSG 10日 21/10/09 (土) 21/10/20 (水) 27SS+4日 Lav down Pipes under HRSG 9日 21/10/21(木) 21/10/30(土) 29 Short legs setting 28 Short legs setting 21/10/28(木) 21/11/01(月) 30 Prepare for installing Bottom casing 3日 31SF Prepare for installing Bottom casing 31 Lifting and installing Bottom casing 6日 21/11/01(月) 21/11/06(土) 29 Lifting and installing Bottom casing 32 Welding Short legs and Bottom casing 35 ⊟ 21/11/08(月) 21/12/17(金) Welding Short legs and Bottom casing 33 Setting and welding Brace gusset 35 FI 21/11/08(月) 21/12/17(金) 31 Setting and welding Brace gusset 34 Setting and welding SCR bottom frame 35 ⊟ 21/11/08(月) 21/12/17(金) 31 Setting and welding SCR bottom frame 35 Setting FL+2.5m floor structure 17 FI 21/11/08(月) 21/11/26(金) 31 Setting FL+2.5m floor structure Putting pipes on bottom casing 10日 21/11/27 (±) 21/12/08 (7k) 36 35 Putting pipes on bottom casing 37 HRSG Blow down tank 2 FI 21/10/27(水) 21/10/29(金) 38SF-10日 HRSG Blow down tank 38 KURE pipe rack (North on HRSG) 40 ⊟ 21/11/10(水) 21/12/25(土) 31FS+2日 KURE pipe rack (North on HRSG) 39 21/11/25(木) 21/12/14(火) 32SS+15日 Insulation and lagging on Bottom casing 17日 Insulation and lagging on Bottom casing 21/12/09 (木) 21/12/10 (金) 40 Unloading Side casing and Top Casing #1 2日 79FS+2日 Unloading Side casing and Top Casing #1 41 Suspend lifting work because of delivery cor 21/12/14(火) 21/12/17(金) 142SS-1E 42 | | Lifting and installing Side casing 42 ⊟ 22/01/01(土) 22/02/18(金) 94SS+20 ⊟ Lifting and installing Side casing 42SS+15日 Lifting and installing Top casing 43 Lifting and installing Top casing 40日 22/01/19 (水) 22/03/05 (土) 44 2日 22/02/03(木) 22/02/04(金) Lifting and installing SCR Lifting and installing SCR 45 22/03/14(月) 22/03/15(火) 101FS+10⊟ Lifting and installing AIG 2日 Lifting and installing AIG 46 Unloading Side casing and Top Casing #2 22/01/07(金) 22/01/07(金) 96SS-1 ⊟ 18 Unloading Side casing and Top Casing #2 Installation of piping, header, support, EXP inside HRSG 40 E 47 22/01/25(火) 22/03/11(金) 42SS+20 ⊟ nstallation of piping, header, support, EXP insid<mark>e HRSG</mark>) 48 Lifting and installing HRSG Inlet duct 2 FI 22/04/26(火) 22/04/27(水) 103 Lifting and installing HRSG Inlet duct Setting FL+29m floor structure (The part of over hang) 49 Setting FL+29m floor structure (The part of over hang) 55日 22/03/07(月) 22/05/09(月) 48FF+10 ⊟ Lifting Down comer piping (after pre-assembling) 50 Lifting Down comer piping (after pre-assembling) 8日 22/04/11(月) 22/04/19(火) 49SS+30 FI 51 Prepare Lifting Tube bundle (Around HRSG) 10 FI 22/04/28(木) 22/05/09(月) 49FS-10 ⊟ Prepare Lifting Tube bundle (Around HRSG) 52 Suspend outside work for transportation of GEN TX 2日 22/04/15(金) 22/04/16(土) 1255 Suspend outside work for transportation of GEN TX Prepare unloading Tube bundle (Storage area) 53 Prepare unloading Tube bundle (Storage area) 3日 22/04/28(木) 22/04/30(土) 48 54 Unloading Tube bundle #1 (3set) 22/05/02(月) 22/05/04(水) 53 Unloading Tube bundle #1 (3set) 55 Prepare installing Tube bundle #1 (3set) 3日 22/05/05(木) 22/05/07(土) 54 repare installing Tube bundle #1 (3set) 56 22/05/10 (火) 22/05/14 (土) 55,51 Lifting and installing Tube bundle #1 (3set) ifting and installing Tube bundle #1 (3set) 57 22/05/16(月) 22/05/20(金) Unloading Tube bundle #2 (12set) 5⊟ Unloading Tube bundle #2 (12set) 58 Prepare installing Tube bundle #2 (12set) 22/05/21(土) 22/05/24(火) Prepare installing Tupe bundle #2 (12set) Lifting and installing Tube bundle #2 (12set) 15日 22/05/25(水) 22/06/10(金) Lifting and installing Tube bundle #2 (12set) 22/05/21 (土) 22/06/28 (火) 56SS+10日 Setting FL+29m floor structure (Above tube bundle) g FL+29m floor structure (Above tube bundle) 60SS+10 FI 61 Lifting and setting HP-Drum 22/06/02(木) 22/06/02(木) Lifting and setting HP-Drum 62 Lifting and setting IP-Drum 22/06/23(木) 22/06/23(木) 59FS+10E Lifting and setting IP-Drum 63 Lifting and setting LP-Drum 22/07/06 (7k) 22/07/06 (7k) 62FS+10 ⊟ Lifting and setting LP-Drum 64 Lifting and installing HRSG Outlet duct 22/08/05(金) 22/08/06(土) 2 FI Lifting and installing HRSG Outlet duct Suspend outside work for transportation of GT & GEN 8日 65 22/07/13(水) 22/07/21(木) 186SS-2 E rk for transportation of GT & GEN 66 Adjusting HDR level (HP) 10 FI 22/07/07(木) 22/07/18(月) Adjusting HDR level (HP) 67 Adjusting HDR level (IP & LP) 15 ⊟ 22/07/19(火) 22/08/04(木) 66 Adjusting HDR level (IP & LP) Lifting Frame 7,9 and 8 68 Lifing Frame 7,9 and 8 25日 22/08/19(金) 22/09/16(金) 69 22/08/08(日) 22/08/18 (木) HRSG roof structure (main beam) 70 Setting roof structure (Including deferrable structure) 100日 22/08/08(月) 22/12/01(木) 69SS Setting roof structure (Including deferrable structure) Lifting and setting the silencer of HRSG 22/08/31(水) 22/09/05(月) 70SS+20日 71 5⊟ Lifting and setting the silencer of HRSG 22/11/02 (7k) 1250ton shift to lifting work of GT Inlet du 22/09/17(土) 73 Assembly accessory inside HRSG 22/11/28(月) 23/03/23(木) ssembly accessory inside HRSG 22/12/03 (土) 22/12/14 (水) Hydrostatic test of HRSG Excavation the foundation of UTAC (By Civil) 22/10/27(木) 22/12/01(木) 30 ⊟ dation of UTAC (By Civil) Urea to Ammonia conversion system 90 ⊟ 22/12/01 (木) 23/03/15 (水) Urea to Ammonia conversion system Installation the SCR catalyst 23/07/13(木) 23/08/04(金) 21FS+30日 20日 Installation the SCR catalyst

NOTE

79

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

Assembly 1250ton C/C

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

10 FI

21/11/25(木) 21/12/06(月)

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

Assembly 1250ton C/C

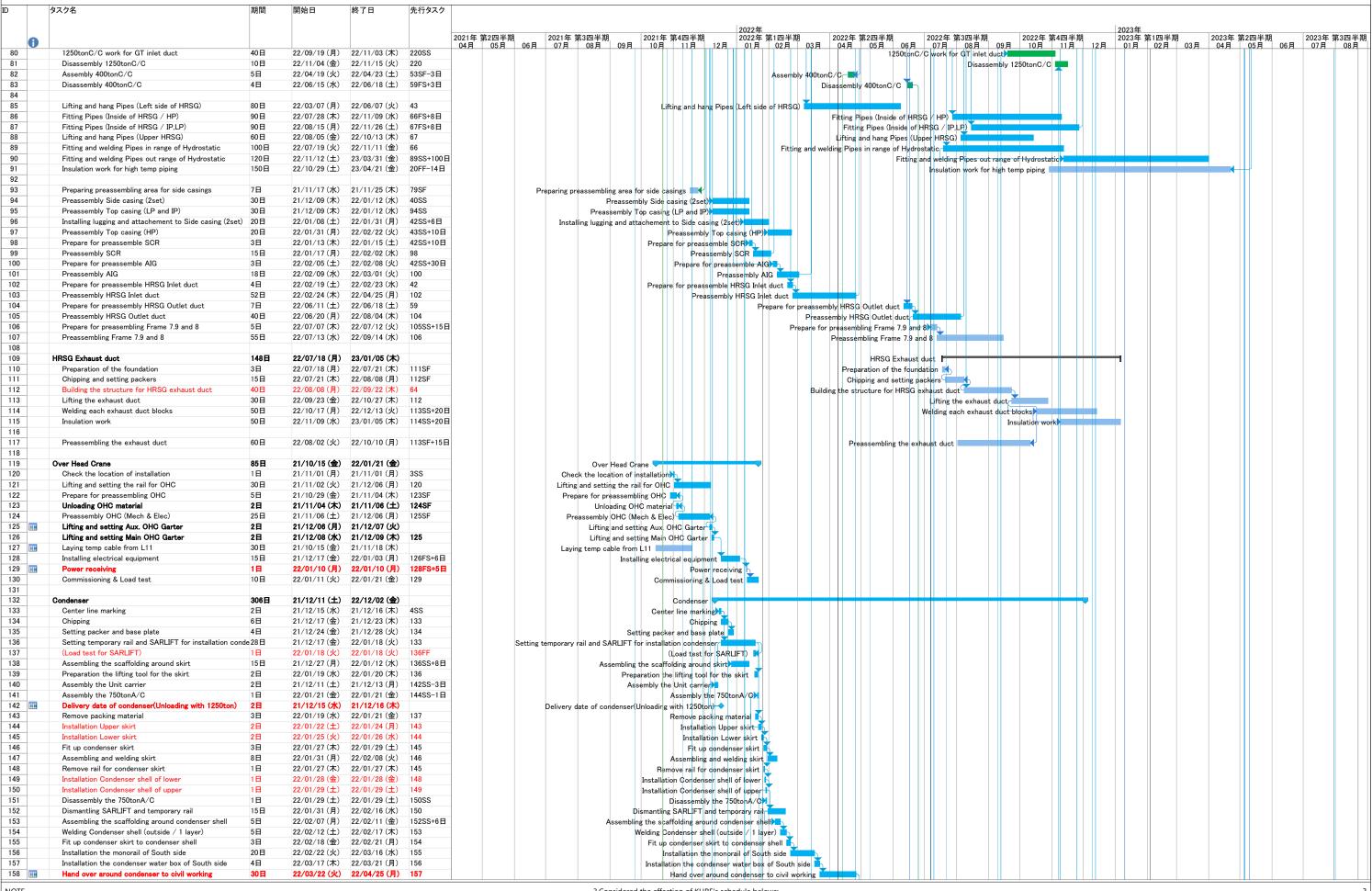
i) Because of delaying the side casing, installation Inlet duct is postponed.

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

20th-Oct-2021

Rev.5a

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

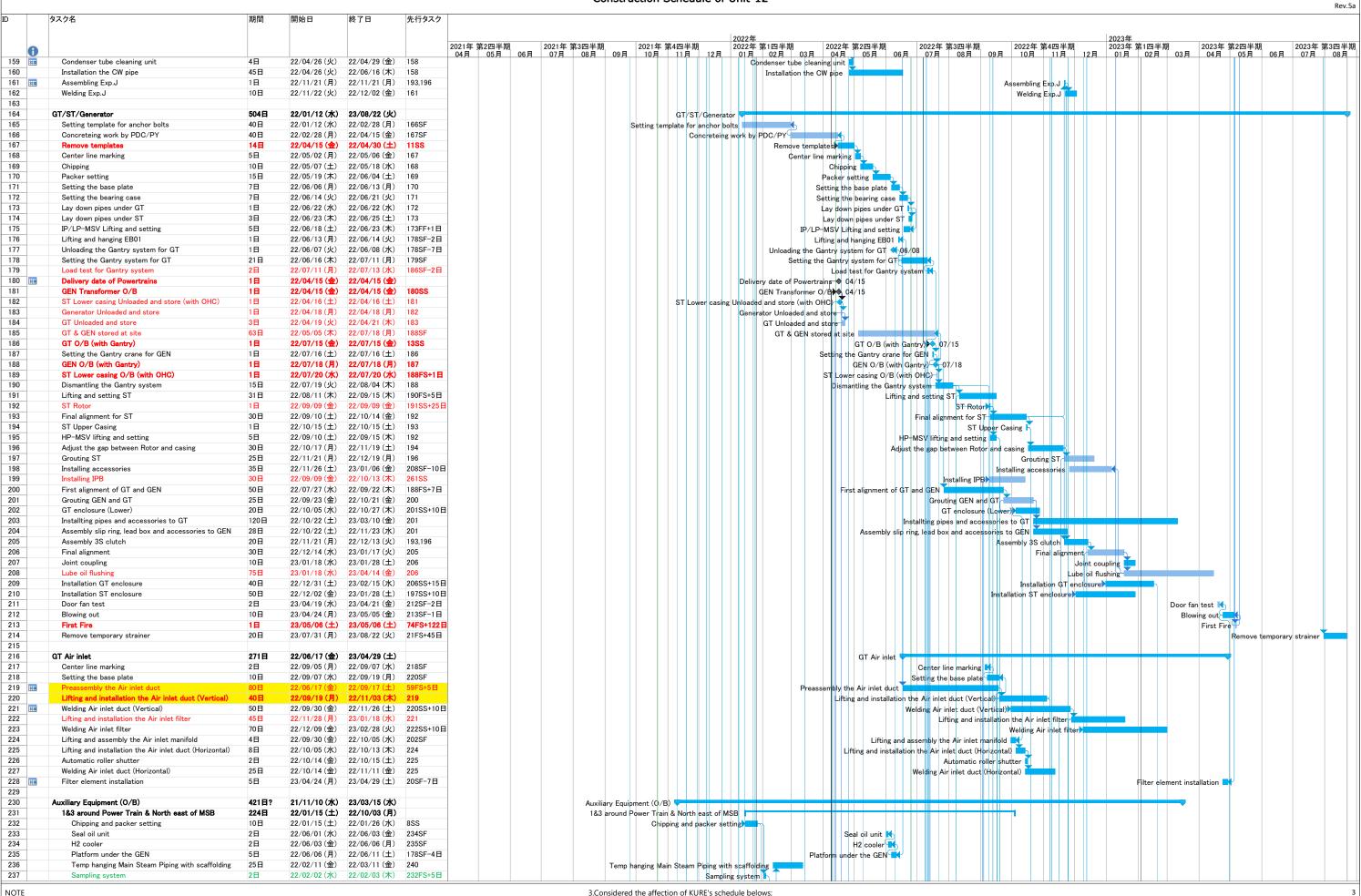


TAIHEI DENGYO KAISHA,LTD.

Construction Schedule of Unit-12

20th-Oct-2021

Per Sa



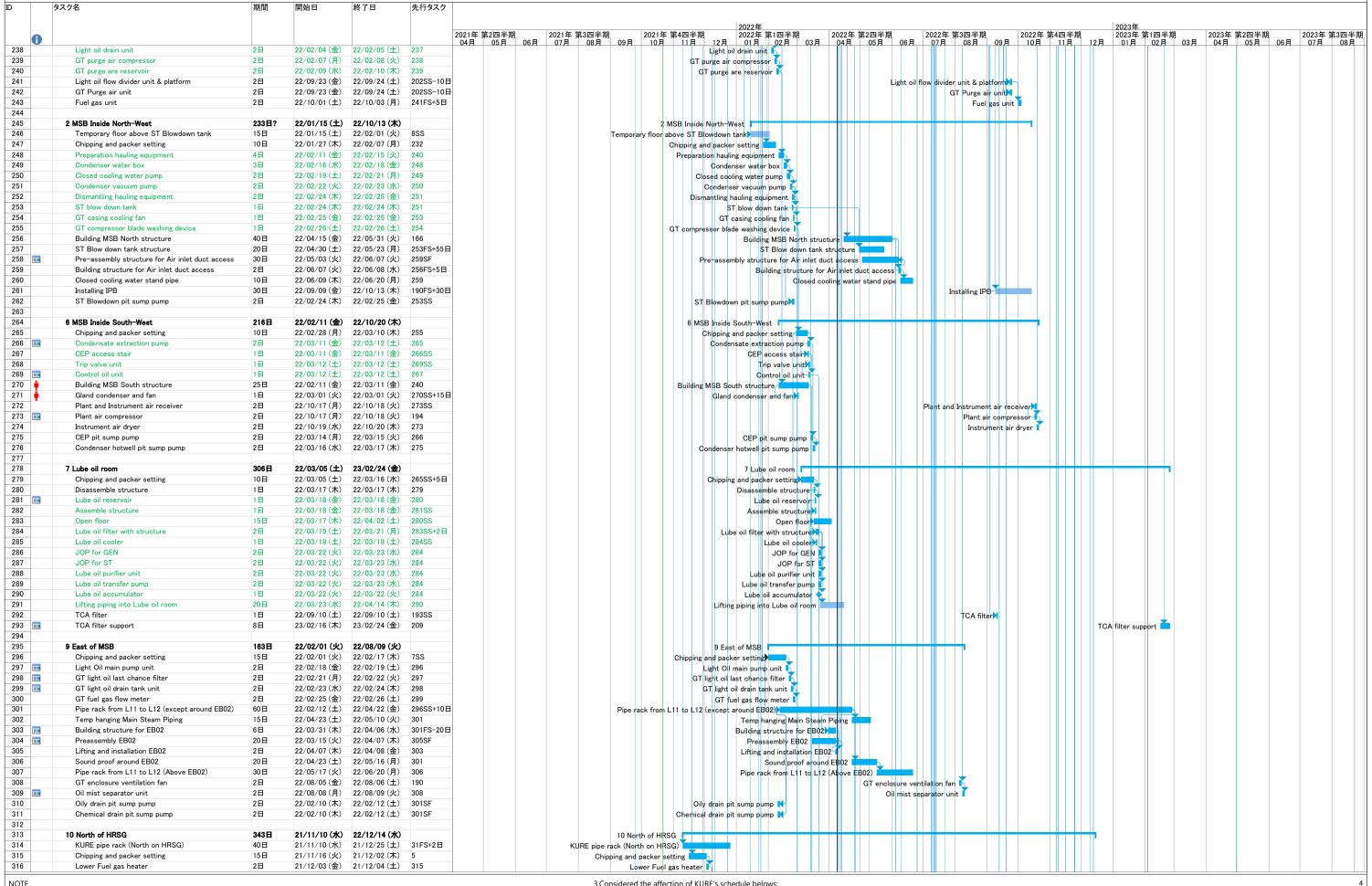
i) Because of delaying the side casing, installation Inlet duct is postponed.

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

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.

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

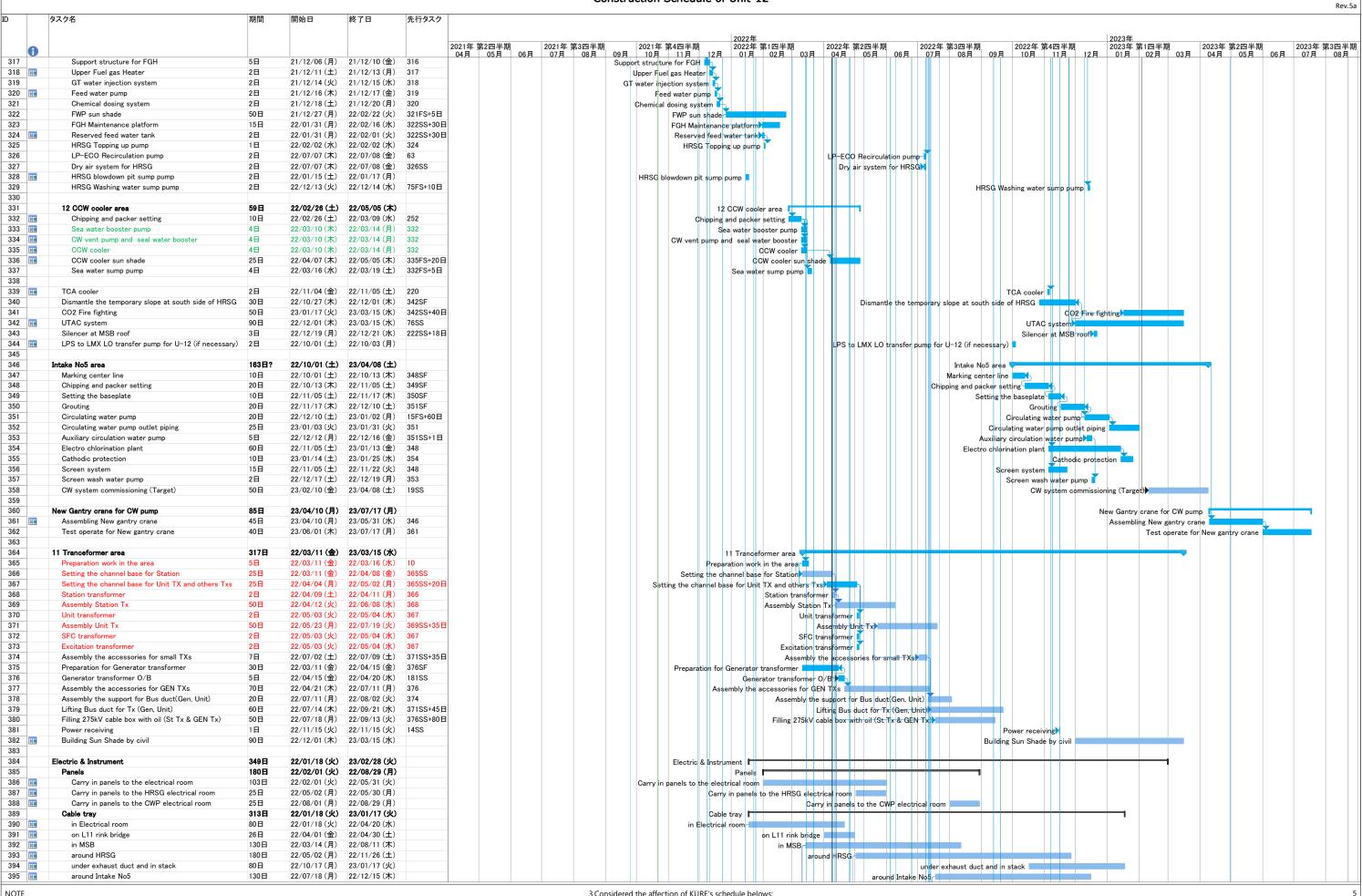


2. The east area on the MSB is assumed to be handovered before B-Feb-2022 according to the above key date changed.

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

^{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



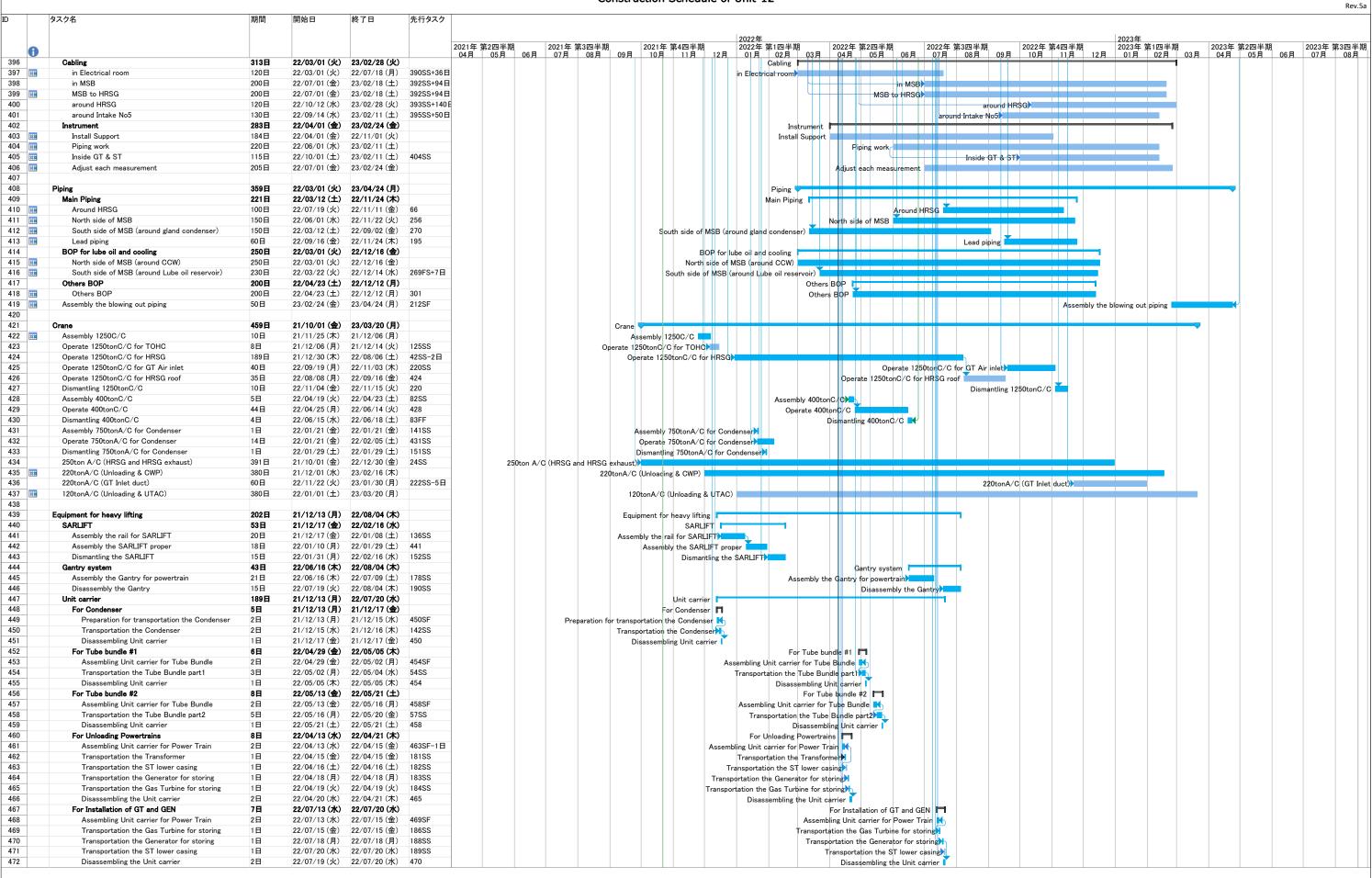
1. The key date is subjected in the KOM held on 30th-Sep.

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

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

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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 April 2022
Project: Lamma Power Station Extension - Civil and Building Works for Unit L11

Contractor: Paul Y. Construction Company, Limited

Ben Lam Record by:

Year of Record: 2018, 2019, 2020, 2021 & 2022

MM.YYYY		Ac	tual Quanti	ities of Inert (C&D Materia	s Generated	Monthly		Actual C	uantities of N	Ion-inert C&I) Materials	Generated	Monthly
	Exc	avated Mate		,		excavated Ma								
				Broken										
			Others (e.g	Concrete or									Chemical	
	Disposed	Disposed in	Reused in	Construction			Disposed		Metals (steel	Metals	Paper /		waste	Other, e.g.
	in Public	Sorting	the	Waste	Reused in the	Reused in	in Public	Disposed in	bar / metal	(aluminum	cardboard	Plastics	(wasted	general
	Fill	Facilities	Contract /	Collected by	Contract	other Projects	Fill	Sorting Facilities	strip) (1)	can) (1)	packaging (1)	(1) & (4)	lubricant	refuse
		1 domined	Other	Recycled					suip)	Carry	packaging		oil/oil	TCIGGG
			Projects)	Company									container)	
	(in '000ka)	(in '000kg)	(in '000kg)	(in '000ka)	(in '000ka)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000ka)	(in '000ka)	(in '000ka)	(in '000ka)	(in '000L)	(in '000ka)
	(III GOOKG)	(III OUUNG)	(III OUOKG)	(iii oookg)	(III OUUKG)	(III OOOKg)	(III odoky)	(iii oookg)	(iii dddkg)	(III oookg)	(III GOOKS)	(III GOOKS)	(III GOOL)	(III GOOKS)
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 Mar 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.66 19.05	0.00	0.00	0.00	0.60	0.00
Apr 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00	19.09
Apr 2019 May 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	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 Jul 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66
Aug 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.31
Oct 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.109	0.00	0.00	4.76
Nov 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.87
Dec 2019	0.00	0.00	0.00	0.00	0.00	10226.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.19
Jan 2020	0.00	0.00	0.00	0.00	0.00	7981.09	0.00	0.00	0.00	0.00	0.157	0.00	0.00	26.89
Feb 2020	0.00	0.00	0.00	0.00	0.00	8782.98	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Mar 2020	0.00	0.00	0.00	0.00	0.00	20252.12	0.00	0.00	0.00	0.00	0.000	0.00	0.00	78.96
Apr 2020	0.00	0.00	0.00	0.00	0.00	12976.86	0.00	0.00	8.30	0.00	0.000	0.00	0.00	68.75
May 2020	0.00	0.00	0.00	0.00	0.00	20203.01	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Jun 2020	0.00	0.00	0.00	0.00	0.00	28030.33	0.00	0.00	0.00	0.00	0.000	0.00	0.00	58.49
Jul 2020	0.00	0.00	0.00	0.00	0.00	12481.37	0.00	0.00	0.00	0.00	0.000	0.00	0.00	33.88
Aug 2020	0.00	0.00	0.00	0.00	0.00	11179.56	0.00	0.00	0.00	0.00	0.000	0.00	0.60	73.73
Sep 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.53	0.00	0.286	0.00	0.00	64.93
Oct 2020	0.00	0.00	0.00	0.00	0.00	10762.20	0.00	0.00	7.12	0.00	0.297	0.00	0.00	83.34
Nov 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.46	0.00	0.000	0.00	0.20	61.21
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	59.98
Jan 2021	0.00	0.00	0.00	0.00	0.00	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	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
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	19.60
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	31.74
Mar 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
Apr 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.90	0.00	0.00	0.000	0.00	0.00	18.90
Total	3160.23	0.00	0.00	0.00	0.00	142875.75	0.00	4.90	74.83	0.00	0.849	0.00	2.00	1109.13
Total	3160.23	0.00	0.00	0.00	0.00	1428/5./5	0.00	4.90	/4.83	0.00	0.849	0.00	2.00	1109.13

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
146040.88 tonnes	75.68 tonnes	1109.13 tonnes	2000 Liters

(A)	Inert C&D materials include bricks, concrete, building debrir, rubbble and excavated spoil. In total, 146040.88 tonnes of inert C&D materials include bricks, concrete, building debrir, ubbble and excavated spoil. In total, 148075.0 tonnes were reused in this and other contracts, and the remaining 3160.23 tonnes were disposed as public fill of III 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 fil
(c)	0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
(d)	Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.
	(1) metal, paper & plastic were collected by recycler (2) The performance target of waste recycling are specified in the Contract. (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site. (4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material. (5) Broken concrete for recycling into aggregates. (6) Broken concrete for recycling into aggregates.
	(b)

Appendix K

Monthly Waste Flow Table for April 2022

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

Contractor: Taihei Dengyo Kaisha, Ltd.

Stephen Sin Record by:

Year of Record: 2019, 2020, 2021, 2022

MM.YYYY	1	Actual C	Quantities of	Inert C&D N	Materials Ger	nerated Mor	nthly		Actual Q	uantities of	Non-inert C	&D Materials	s Generated	Monthly
	E	xcavated Materia	als		Non-e	xcavated M	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) (1)	Metals (aluminum can) (1)	Paper / cardboard packaging (1)	Plastics	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in 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
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Materials 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 material
		were generated from the Project, of which 0 tonnes were reused in this and other co	ntracts, an	d 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.	wastes such	as general refuse.
		Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with other	ers at the p	ublic fill.
	(c)	0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics w	were sent to	recyclers
		for recycling during the reporting period.		
	(d)	Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.		
Notes:		(1) metal, paper & plastic were collected by recycler		
		(2) The performance target of waste recycling are specified in the Contractt.		
		(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the	Site.	
		(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.		
		(5) Broken concrete for recycling into aggregates.		
		(6) Disposal of inert waste to public fill or sorting facilities will <u>NOT</u> be considered as recycled waste.		

Appendix K

Monthly Waste Flow Table for April 2022

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

Contractor: Paul Y. Construction Company, Limited

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

Disposed in Public Fill Disposed in Publ		Act	tual Quanti	ties of Inert (C&D Material	s Generated I	Monthly		Actual Q	uantities of N	lon-inert C&I) Materials	Generated	Monthly
Disposed In Public Fill St. Fat	Excavate	ated Mate	rials		Non-	excavated Ma	aterials							
Dec 2020 0.00 0 Jan 2021 0.00 0 Feb 2021 0.00 0 Mar 2021 0.00 0 Apr 2021 0.00 0 May 2021 0.00 0 Jun 2021 0.00 0 Jun 2021 0.00 0 Jun 2021 0.00 0 Jun 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Dec 2021 0.00 0 Dec 2021 0.00 0 Feb 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	posed in sblic Fill	sposed in	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
Jan 2021 0.00 0 Feb 2021 0.00 0 Mar 2021 0.00 0 Apr 2021 0.00 0 Apr 2021 0.00 0 Jun 2021 0.00 0 Jun 2021 0.00 0 Jul 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Feb 2022 0.00 0	(in '000kg)	n '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)
Feb 2021 0.00 0 Mar 2021 0.00 0 Apr 2021 0.00 0 May 2021 0.00 0 May 2021 0.00 0 Jul 2021 0.00 0 Jul 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Dec 2021 0.00 0 Dec 2021 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0 Mar 2022 0.00 0	0.00	0.00	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 Apr 2021 0.00 0 May 2021 0.00 0 Jun 2021 0.00 0 Jun 2021 0.00 0 Jun 2021 0.00 0 Aug 2021 0.00 0 Sep 2021 0.00 0 Cct 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	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
Apr 2021 0.00 0 May 2021 0.00 0 Jun 2021 0.00 0 Jun 2021 0.00 0 Aug 2021 0.00 0 Aug 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0 Mar 2022 0.00 0	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
May 2021 0.00 0 Jun 2021 0.00 0 Jul 2021 0.00 0 Aug 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Nov 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	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
Jun 2021 0.00 0 Jul 2021 0.00 0 Aug 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Nov 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Jan 2022 0.00 0 Mar 2022 0.00 0 Mar 2022 0.00 0	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
Jul 2021 0.00 0 Aug 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Nov 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	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
Aug 2021 0.00 0 Sep 2021 0.00 0 Oct 2021 0.00 0 Nov 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	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
Sep 2021 0.00 0 Oct 2021 0.00 0 Nov 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0 Mar 2022 0.00 0	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
Oct 2021 0.00 0 Nov 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	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
Nov 2021 0.00 0 Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0		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
Dec 2021 0.00 0 Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	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
Jan 2022 0.00 0 Feb 2022 0.00 0 Mar 2022 0.00 0	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
Feb 2022 0.00 0 Mar 2022 0.00 0		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
Mar 2022 0.00 0		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
		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
Apr 2022 0.00 0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.21	0.00	0.000	0.00	0.00	25.70
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.51	0.00	0.00	0.00	0.00	0.00	52.83
Total 0.00 0	0.00	0.00	64180.35	0.00	0.00	0.00	0.00	5.51	232.94	0.00	0.25	0.00	0.40	384.01

Total Inert C&D Waste Materials		Non-inert C&D Materials	l e
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
64185.86 tonnes	233.19 tonnes	384.01 tonnes	400 Liters

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 64185.86 tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials include bricks, and the remaining tonnes of inert C&D materials in
	(b)	Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
	(c) 0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.
	(d	() Construction wastes other than metals, paper/cardboard packaging, plastics and chemicals were disposed of at Landfill.

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

Monthly Waste Flow Table for April 2022

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

Paul Y. Construction Company, Limited Contractor:

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

MM.YYYY		Ac	tual Quant	ities of Inert (C&D Materia	ls Generated I	Monthly		Actual C	Quantities of N	Non-inert C&I	O Materials	Generated	Monthly
	Exc	avated Mate	erials		Non	excavated Ma	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) (1)	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging (1)	Plastics	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)
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
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.86
Apr 2022	0.00	0.00	15076.75	0.00	0.00	0.00	0.00	10.27	0.00	0.00	0.000	0.00	0.00	43.60
Total	0.00	0.00	15076.75	0.00	0.00	0.00	0.00	10.27	4.21	0.00	0.00	0.00	0.60	230.88

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			
15087.02 tonnes	4.21 tonnes	230.88 tonnes	600 Liters			

Where	(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, a specific 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.								

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

Monthly Waste Flow Table for April 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										
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Construction Waste Collected by Recycled Company	the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) (1)	Metals (aluminum can) (1)	Paper / cardboard packaging (1)	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in L)	(in '000kg)
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.29
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.59
Apr 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.42
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	52.66

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	52.66 tonnes	0 Liters				

(A)	Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00_tonnes of iner C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00_tonnes were recused 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.							
	(1) metal, paper & plastic were collected by recycler (2) The performance target of waste recycling are specified in the Contract. (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site. (4) Plastics refer to plastic bottles' containers, plastic/ foam from packaging material. (5) Broken concrete for recycling into aggregates.							
	(b)							

Appendix K