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



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

December 2021

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



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

Report Title	Lamma Power Station Extension – Unit L11 & L12 Monthly EM&A Report (December 2021)
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EXECUTIVE SUMMARY

This is the 140th monthly Environmental Monitoring and Audit (EM&A) report for the Project "Construction of Lamma Power Station Extension" prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air quality and noise for the said project in December 2021.

The reclamation and submarine pipeline works were completed with the first gas-fired combined cycle unit (viz. Unit L9) commissioned in October 2006, working currently on base load operation. To cope with the scheduled retirement of the existing units at Lamma Power Station, the second gas-fired combined cycle unit (viz. Unit L10) L10 was commissioned for reliable operation in February 2020. The operational EM&A work for L9 and L10 is recorded in the separate monthly EM&A report for the Project "Operation of Lamma Power Station Extension".

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

With the Government's approval to build the fourth combined cycle gas-fired generating unit (L12) in July 2018, the associated construction work commenced in April 2019. When L12 is commissioned in 2023, the total gas-fired electricity generation will further rise to reach about 70% of our total output.

Air and noise monitoring were performed. The results were checked against the established Action/Limit (AL) levels. An on-site audit was conducted once per week. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

Construction Activities Undertaken

Item	Construction Activities		
Unit L11 Civil and Building Works	Main Station Building external works and pipe connection in jacking 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 superstructure for ACB, installation of pipe and backfilling works for No. 5 C.W. Culvert, installation of precast beam for Cable Bridge (North & South), construction of pile cap for shunt reactor compound extension and soil nailing for No. 5 C.W. Intake.		
Unit L12 Mechanical Erection	Condenser installation, HRSG installation and turbine block installation		
Unit L12 Electrical, Instrumentation & Control Erection	Cable installation		

Construction activities for Lamma Extension during the reporting month are tabulated as follows:

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 7/12/2021. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 23/12/2021. The site conditions were generally satisfactory.

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

Description	Permit No.	Valid Period		Issued To	Date of	
_		From	То		Issuance	
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20	
Construction Noise Permit	GW-RS0436-21	01/07/21	31/12/21	Contractor	15/06/21	
Construction Noise Permit	GW-RS0600-21	08/08/21	07/02/22	Contractor	06/08/21	
Construction Noise Permit	GW-RS0790-21	23/10/21	21/04/22	Contractor	21/10/21	
WPCO Discharge Licence	WT00034006-2019	08/08/19	31/08/24	Contractor	22/08/19	
WPCO Discharge Licence	WT00037613-2021	15/04/21	30/04/26	Contractor	15/04/21	
WPCO Discharge Licence	WT00037665-2021	06/05/21	31/05/26	Contractor	06/05/21	
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Contractor	22/02/16	
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	Contractor	17/03/05	
Waste Disposal Billing Account	Account No.: 7031135	21/06/18	-	Contractor	21/06/18	
Waste Disposal Billing Account	Account No.: 7027672	24/04/17	-	Contractor	24/04/17	
Waste Disposal Billing Account	Account No.: 7038672	27/10/20	-	Contractor	27/10/20	

Environmental Licensing and Permitting

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

Implementation Status of Environmental Mitigation Measures

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

Environmental Complaints

No complaint against the construction activities was received in the reporting month.

Future Key Issues

The future key issues to be considered in the coming month are as follows:

Unit L11 Civil and Building Works

- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;
- to treat wastewater in sedimentation pit and tanks before discharge and to ensure compliance with the WPCO discharge licence already obtained.

Unit L11 Mechanical Erection

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

Unit L11 Electrical, Instrumentation & Control Erection

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

Unit L12 Civil and Building Works

- to continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;
- to treat wastewater in sedimentation pit and tanks before discharge and to ensure compliance with the WPCO discharge licence already obtained;

Unit L12 Mechanical Erection

- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;

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

Unit L12 Electrical, Instrumentation & Control Erection

- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

Concluding Remarks

The environmental performance of the project was generally satisfactory.

1. INTRODUCTION

1.1 Background

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

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

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

This report summarizes the environmental monitoring and audit work for the Project for the month of December 2021.

1.2 Project Organisation

An Environmental Management Committee (EMC) has been set up in HEC to oversee the Project. The management structure includes the following:

- Environmental Protection Department (The Authority);
- Environmental Manager (The Chairman of the Environmental Management Committee);
- Engineer;
- Independent Environmental Checker (IEC);
- Environmental Team (ET);
- Contractor.

The project organisation chart for the construction EM&A programme is shown in Appendix A.

1.3 Construction Works undertaken during the Reporting Month

Construction activities for Unit L11 civil and building works were, Main Station Building external works and pipe connection in jacking 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 superstructure for ACB, installation of pipe and

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

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

 Table 1.1
 Construction Activities and Their Corresponding Environmental Mitigation Measures

Item	Construction Activities	Environmental Mitigation Measures				
Unit L1	Unit L11 Civil and Building Works					
1.	Main Station Building external works and pipe connection in jacking 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 L1	Unit L11 Mechanical Erection					
2.	Testing and commissioning	Air – Dust suppression measures implemented according to the EMP.				

Item	Construction Activities	Environmental Mitigation Measures
Unit L1	1 Electrical. Instrume	 Noise General noise mitigation measures employed at all work sites throughout the construction phase. Waste Management Waste Management Plan submitted and implemented entation & Control Erection
3.	Testing and commissioning	 Air Dust suppression measures implemented according to the EMP. Noise General noise mitigation measures employed at all work sites throughout the construction phase. Waste Management Waste Management Plan submitted and implemented.
Unit L12 4.	2 Civil and Building <u>Construction of</u> <u>Main Station</u> <u>Building</u>	Air – All regulated machine attached with valid
	Construction of No.5 Chimney <u>ACB</u> Construction of superstructure	 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.
	<u>No.5 C.W.</u> <u>Culvert</u> installation of pipe and backfilling works	 Noise Works conducted during restricted hours should comply with the valid CNP. Noise emission label was provided for air compressor. Wastewater
		 Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. The frequency would be in weekly basis depends on the volume of sediment accumulated in order to maintain sufficient volume for wastewater treatment.

Item	Construction Activities	Environmental Mitigation Measures
		 Waste Management Excavated soil was temporary stored for backfilling and reuse in other projects. Scrape metal would be recycled. Chemical waste should be collected by licensed collector.
5.	Cable Bridge (North & South): Installation of precast beam <u>Shunt Reactor</u> <u>Compound</u> <u>Extension</u> Construction of pile cap <u>No. 5 C.W. Intake</u> Soil nailing	 Air All regulated machine attached with valid exception/approval NRMM labels. Noise emission level was provided for air compressor. Using canvas to cover 3 sides and top of the grouting station. Water truck, water sprinkler system and mist cannon were used. Excavated soil slop covered with tarpaulin. Wheel washing facilities was provided. Water spraying on haul road and during concrete breaking. Waste Management Excavated soil would be stored for backfilling. Wastewater Wastewater Wastewater would be treated in desilting tanks before discharge.
Unit L1	2 Mechanical Erectic) n
6	Condenser installation HRSG installation Turbine block installation	 Air Dust suppression measures implemented according to the EMP. Noise General noise mitigation measures employed at all work sites throughout the construction phase. Waste Management Waste Management Plan submitted and implemented
Unit L1	2 Electrical, Instrume	entation & Control Erection
7	Cable installation	Air

Item	Construction Activities	Environmental Mitigation Measures	
		 Dust suppression measures implemented according to the EMP. 	
		 Noise General noise mitigation measures employed at all work sites throughout the construction phase. 	
		 Waste Management Waste Management Plan submitted and implemented. 	

1.4 Summary of EM&A Requirements

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

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

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

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

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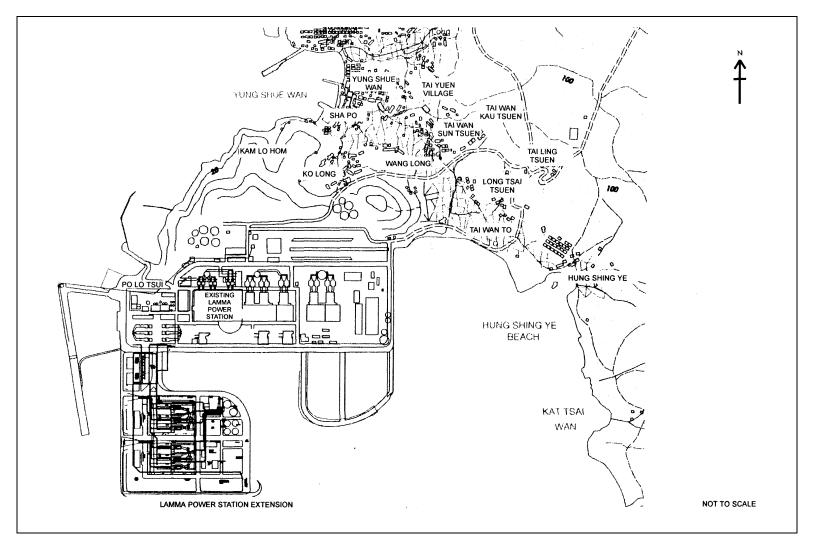


Figure 1.1 Layout of Work Site

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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.

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

Table 2.1Air Quality Monitoring Locations

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 2.2Air 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.

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
4340	1-hour TSP	1	3 hourly samples every 6 days
AM2	24-hour TSP	24	Once every 6 days
AM3	1-hour TSP	1	3 hourly samples every 6 days
	24-hour TSP	24	Once every 6 days
AM4	24-hour TSP	24	Once every 6 days

 Table 2.3
 Air Quality Monitoring Parameter, Duration and Frequency

2.5 Monitoring Procedures and Calibration Details

MINIVOL (24- hour TSP Monitoring):

Preparation of Filter Papers

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

Field Monitoring

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

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

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

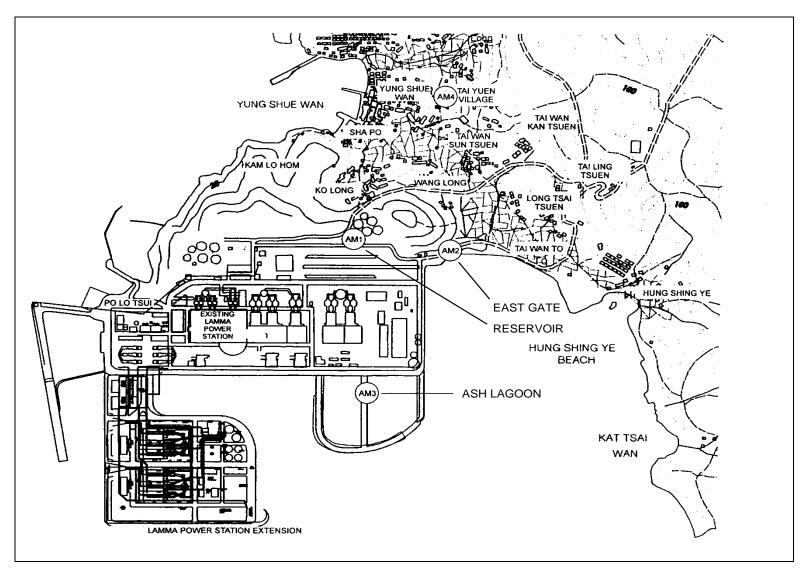


Figure 2.1 Location of Air Quality Monitoring Stations

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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 3.2Noise Monitoring Duration and Parameter

LocationTime PeriodFrequencyParameter

	Day-time: 0700-1900 hrs on normal weekdays	Day-time: 30 minutes	30-min L _{Aeq}
Ash Lagoon Ching Lam	Evening-time & holidays: 0700-2300 hrs on holidays; and 1900-2300 hrs on all other days	Evening-time & holidays: 5 minutes	5-min L _{Aeq}
	Night-time: 2300-0700 hrs of next day	Night-time: 5 minutes	5-min L_{Aeq}

3.5 Monitoring Procedures and Calibration Details

Monitoring Procedures

Continuous Noise Monitoring for Lamma Extension Construction

The measured noise levels (MNL's) were collected at the noise alarm monitoring stations at Ash Lagoon and Ching Lam. The notional background noise levels (viz. baseline noise data at Ash Lagoon and Ching Lam) were applied to correct the corresponding MNL's in 30-min/5-min L_{Aeq} .

A wind speed sensor was installed at Station Building Rooftop. The wind speed signal was used to determine whether the data from Ash Lagoon and Ching Lam noise alarm monitoring stations were affected. The instantaneous data was discarded in case the instantaneous wind speed exceeded 10 m/s. The 30-min/5-min L_{Aeq} was considered valid only if the amount of valid data was equal to or above 70%.

Equipment Calibration

The sound level meters and calibrators were verified by the manufacturer or accredited laboratory. With the endorsement of the Independent Environmental Checker, the enhancement of calibration of sound level meter at the noise monitoring stations was implemented. The monthly manual on-site calibration using sound level calibrator was replaced by the daily auto charge injection calibration function of the sound level meter. For additional quality assurance, manual on-site calibration would still be conducted for the noise monitoring stations once every 6 months. The manual on-site calibrations for Ash Lagoon and Ching Lam noise monitoring stations were carried out in September 2021. The next calibrations for the two noise monitoring stations were scheduled in March 2022.

3.6 Results and Observations

Continuous noise monitoring was conducted at the two monitoring stations at Ash Lagoon and Ching Lam.

All monitoring results and their graphical presentations are provided in Appendix E. No exceedance of noise Action/Limit Level was recorded in the month.

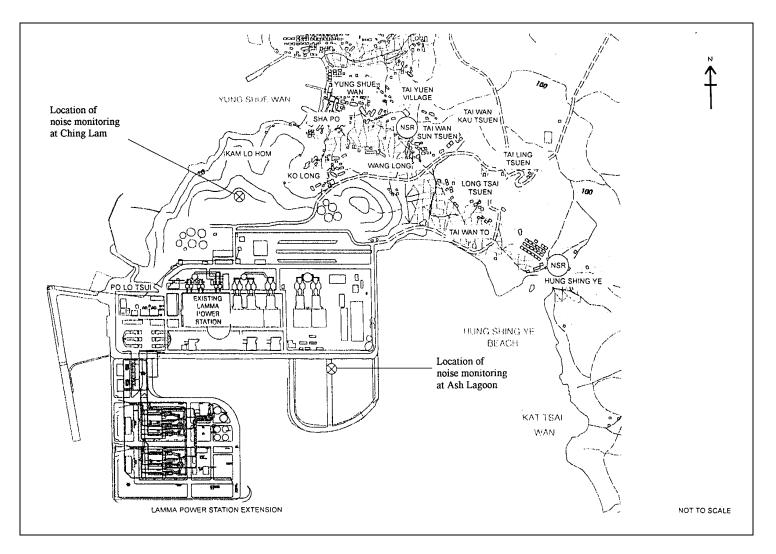


Figure 3.1 Location of Noise Monitoring Stations

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

The environmental monitoring procedures were regularly reviewed by the Environmental Team. No modification to the existing monitoring procedures was recommended.

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Noise

The environmental monitoring results for Air Quality and Noise in the reporting month presented in Sections 2 and 3 respectively are summarized in Table 4.1.

Item	Parameter Monitored	Monitoring Period		. of ances In	Event/Action Plan Implementation Status
			Action Level	Limit Level	and Results
Air					
1	Ambient TSP (24-hour)	01/12/2021- 31/12/2021	0	0	
2	Ambient TSP (1-hour)	01/12/2021- 31/12/2021	0	0	
Noise	·	•			
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/12/2021- 31/12/2021	0	0	

 Table 4.1
 Summary of AL Level Exceedances on Monitoring Parameters

4.3 Waste Management

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

Inert C&D material and non-inert C&D material disposed of in December 2021 are shown in Table 4.2.

Table 4.2	Estimated Amounts of Waste in December 2021
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	N	on-inert C&D Material	ls
Total Inert C&D Waste Materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste

0 Tonnes	10.36 Tonnes	78.41 Tonnes	40,000 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 7/12/2021. There was no adverse comment from EPD regarding the construction site.

Independent Environmental Checker (IEC) conducted a site inspection on 23/12/2021. The site conditions were generally satisfactory.

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

4.5 Status of Environmental Licensing and Permitting

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

Description	Permit No.	Valid Period		Highlights	Status	
		From	То			
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid	
Construction Noise Permit	GW-RS0436-21	01/07/21	31/12/21	Power Block Facilities works for Unit L11. Operation of PME during restricted hours	Valid	
Construction Noise Permit	GW-RS0600-21	08/08/21	07/02/22	Civil and Building Works for Unit L12. Operation of PME during restricted hours	Valid	
Construction Noise Permit	GW-RS0790-21	23/10/21	21/04/22	Construction site of Unit L12. Operation of PME during restricted hours	Valid	
WPCO Discharge Licence#	WT00034006- 2019	08/08/19	31/08/24	Civil and Building Works for Unit L11	Valid	
WPCO Discharge Licence##	WT00037613- 2021	15/04/21	30/04/26	Civil and Building Works for No.5 C.W. Intake and Cable Bridge	Valid	

 Table 4.3
 Summary of Environmental Licensing and Permit Status

Description	Permit No.	Permit No. Valid		Highlights	Status
_		From	То		
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

Notes: #, ## and ### - Water quality monitoring was carried out in November 2021 and the results of which would be reported separately by the contractor.

4.6 Implementation Status of Environmental Mitigation Measures

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

4.7 Implementation Status of Event/Action Plans

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

4.8 Implementation Status of Environmental Complaint Handling Procedures

In December 2021, no complaint against the construction activities was received.

Table 4.4	Environmental Complaints Received in December 2021
-----------	--

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

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

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

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

Air Impact

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

Water Impact

• To treat wastewater in sedimentation pit and tanks before discharge and to ensure compliance in accordance with the WPCO discharge licence already obtained.

Unit L12 Mechanical Erection

Noise Impact

• To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

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

Unit L12 Electrical, Instrumentation & Control Erection

Noise Impact

• To continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the noise performance.

Air Impact

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

5.2 Monitoring Schedules for the Next 3 Months

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

5.3 Construction Program for the Next 3 Months

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

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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.

Appendix A Organization Chart

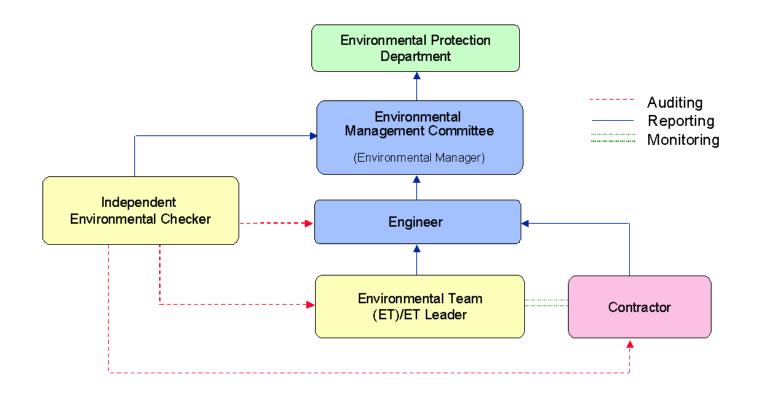


Figure A.1 Organisation of EM&A Programme at Construction Phase

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 TS

	Action Level, µg/m ³	Limit Level, µg/m ³
1-hour TSP*	340	500
24-hour TSP	190	260

* No Action/Limit Level for 1-hour TSP is applied to AM4 where no real time dust monitor is installed.

B.2. Noise

Table B.2 AL Levels for Construction Noise (Other than Pe	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}
Note: 1. For educational instituted B(A) during examination of the second seco	· · · · · · · · · · · · · · · · · · ·	hall be 70 dB(A), reduced to 65

Appendix C Environmental Monitoring Schedule

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

Table C.1Monitoring schedule for 24hr and 1hr TSP monitoring for Lamma
Extension Construction (December 2021 to March 2022)

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: December 2021

24 hour TSP Measurement:-

		TSP concentr	ation (μ g/m ³)	Wea (From Ho			
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir. (°)	Mean R.H. (%)
2/12/2021	54	64	44	56	25.2	10	42
8/12/2021	49	46	39	54	42.5	80	67
14/12/2021	60	71	54	25	21.8	70	72
20/12/2021	32	32	30	14	45.5	50	78
26/12/2021	41	40	42	22	35.0	10	78

1 hour TSP Measurement:-

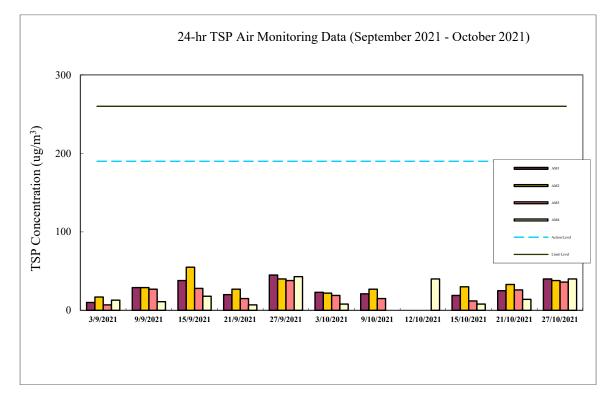
		TSP concentration ($\mu g/m^3$)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
2/12/2021	15:00 - 15:59	52	92	56		
2/12/2021	16:00 - 16:59	56	63	66		
	17:00 - 17:59	66	48	46		
	15:00 - 15:59	51	38	37		
8/12/2021	16:00 - 16:59	57	41	40		
	17:00 - 17:59	69	49	51		
	15:00 - 15:59	68	64	60		
14/12/2021	16:00 - 16:59	62	60	52		
	17:00 - 17:59	64	64	51		
	15:00 - 15:59	23	19	19		
20/12/2021	16:00 - 16:59	18	22	14		
	17:00 - 17:59	22	22	14		
	15:00 - 15:59	34	53	45		
26/12/2021	16:00 - 16:59	30	51	34		
	17:00 - 17:59	26	42	25		

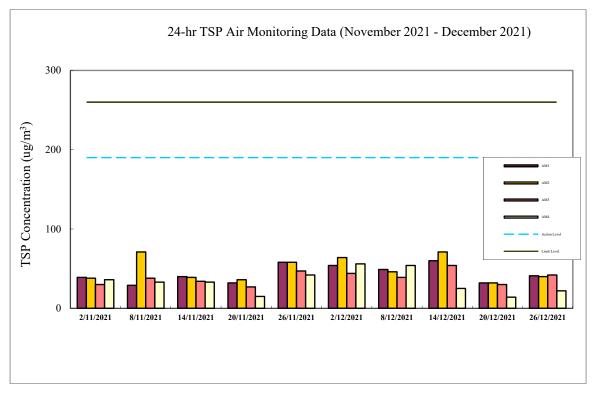
	1-hr TSP	24-hr TSP			
	$(\mu g/m^3)$	$(\mu g/m^3)$			
Action Level	340	190			
Limit Level	500 260				
Calibration:	Calibration details are shown in appendix F.				

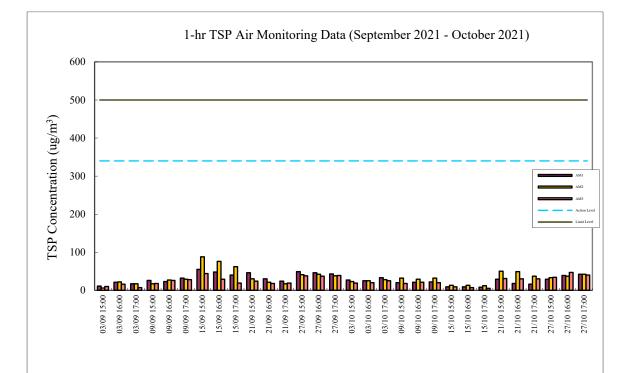
Equipment used:

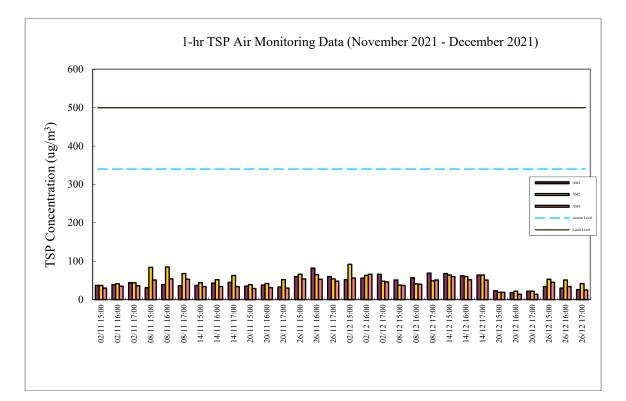
Location 1-hr TSP 24-hr TSP	Equipment used.			
	Location	1-111	TSP 24-hr TSI	Р

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









Appendix E Cont	inuous Noise Monitoring Results for December 2021
Site:	Lamma Power Station Extension Construction
Measurement Location:	Ash Lagoon and Ching Lam
Measurement Parameter:	30-min Leq (07:00-19:00 hrs on normal weekdays)
	5-min Leq (07:00-23:00 hrs on holidays and
	19:00-23:00 hrs on all other days, and 23:00-
	07:00 hrs of next day)
Noise Equipment:	B&K 2250 sound level meters and B&K 4231 sound
1 1	Level calibrator
Lab. Calibration Date:	B&K 2250 sound level meters - 28/06/2020 (Ash Lagoon) 03/09/2021 (Ching Lam)
	B&K 4231 calibrator (21/10/2021)

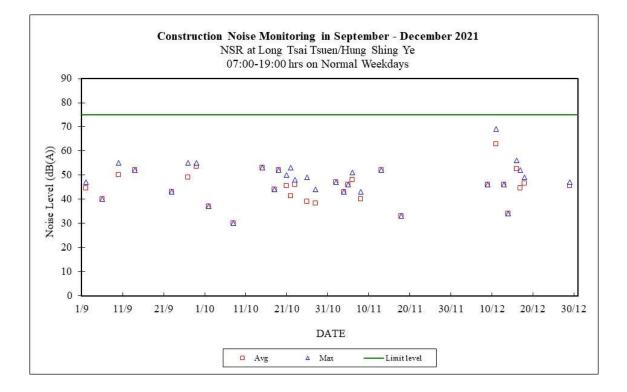
					Calcula	atod	
		Calcula	ated		Noise	aceu	
		Noise			Level a	- +	
		Level a	at	Timit	NSR at		Timit
		NSR at	Long	Limit	school	the	Limit
Date	Time	Tsai		Noise		m - :	Noise
		Tsuen/H	Hung	Level	within		Level
		Shing Y	Ye	(dB(A))	Wan Sai Tsuen	.1	(dB(A))
		(dB(A)))			`	
		More	7	-	(dB(A))		-
01/12/2021	07:00-19:00	Max	Avg	75	Max 53	Avg 49	70
01/12/2021	19:00-23:00			60			60
01/12/2021	23:00-07:00	44	41	45	38	34	45
01/12/2021	07:00-19:00	44	41	45 75		46	65
					48		
02/12/2021	19:00-23:00			60	36	32	60
02/12/2021	23:00-07:00	45	43	45	43	38	45
03/12/2021	07:00-19:00			75	38	37	65
03/12/2021	19:00-23:00			60	37	33	60
03/12/2021	23:00-07:00			45	35	35	45
04/12/2021	07:00-19:00			75	42	39	70
04/12/2021	19:00-23:00			60	41	35	60
04/12/2021	23:00-07:00			45	43	37	45
05/12/2021	07:00-23:00	49	41	60	46	34	60
05/12/2021	23:00-07:00	43	41	45	42	37	45
06/12/2021	07:00-19:00			75	41	35	65
06/12/2021	19:00-23:00			60	42	39	60
06/12/2021	23:00-07:00	45	41	45	43	37	45
07/12/2021	07:00-19:00			75	45	33	65
07/12/2021	19:00-23:00			60	41	37	60
07/12/2021	23:00-07:00	42	37	45	42	36	45
08/12/2021	07:00-19:00			75	43	38	70
08/12/2021	19:00-23:00			60	40	35	60
08/12/2021	23:00-07:00	42	38	45	40	33	45
09/12/2021	07:00-19:00	46	46	75	65	55	70
09/12/2021	19:00-23:00	42	42	60	38	38	60
09/12/2021	23:00-07:00	43	40	45	42	36	45
10/12/2021	07:00-19:00			75	58	47	70
10/12/2021	19:00-23:00			60	41	32	60
10/12/2021	23:00-07:00	42	38	45	41	34	45
11/12/2021	07:00-19:00	69	63	75	52	50	70
11/12/2021	19:00-23:00			60	38	30	60
11/12/2021	23:00-07:00			45	41	34	45
12/12/2021	07:00-23:00	45	41	60	45	38	60
12/12/2021	23:00-07:00	45	41	45	40	35	45
13/12/2021	07:00-19:00	46	46	75	50	44	70
13/12/2021	19:00-23:00			60	48	36	60
1)/12/2021	19.00-23.00			00	40	20	00

13/12/2021	23:00-07:00	44	39	45	44	34	45
14/12/2021	07:00-19:00	34	34	75	53	42	70
14/12/2021	19:00-23:00	52	52	60	26	26	60
14/12/2021	23:00-07:00	44	36	45	44	35	45
15/12/2021	07:00-19:00			75	55	44	70
15/12/2021	19:00-23:00			60	48	40	60
15/12/2021	23:00-07:00	43	38	45	43	38	45
16/12/2021	07:00-19:00	56	53	75	59	48	70
16/12/2021	19:00-23:00	46	39	60	51	36	60
16/12/2021	23:00-07:00	45	38	45	40	29	45
17/12/2021	07:00-19:00	52	45	75	64	49	70
17/12/2021	19:00-23:00			60	35	31	60
17/12/2021	23:00-07:00	44	37	45	42	37	45
18/12/2021	07:00-19:00	49	47	75	61	50	70
18/12/2021	19:00-23:00			60			60
18/12/2021	23:00-07:00	36	36	45	37	33	45
19/12/2021	07:00-23:00			60	52	41	60
19/12/2021	23:00-07:00	43	37	45	42	38	45
20/12/2021	07:00-19:00			75	56	50	70
20/12/2021	19:00-23:00			60	33	28	60
20/12/2021	23:00-07:00	45	38	45	45	39	45
21/12/2021	07:00-19:00			75	55	44	70
21/12/2021	19:00-23:00			60	38	35	60
21/12/2021	23:00-07:00	44	40	45	43	35	45
22/12/2021	07:00-19:00			75	52	44	70
22/12/2021	19:00-23:00			60	47	44	60
22/12/2021	23:00-07:00	38	34	45	43	38	45
23/12/2021	07:00-19:00			75	48	42	70
23/12/2021	19:00-23:00			60	42	39	60
23/12/2021	23:00-07:00	44	40	45	43	38	45
24/12/2021	07:00-19:00			75	57	42	70
24/12/2021	19:00-23:00			60	50	38	60
24/12/2021	23:00-07:00	44	38	45	44	38	45
25/12/2021	07:00-23:00	47	40	60	49	36	60
25/12/2021	23:00-07:00	45	40	45	42	35	45
26/12/2021	07:00-23:00	53	46	60	41	35	60
26/12/2021	23:00-07:00	43	38	45	43	39	45
27/12/2021	07:00-23:00	57	43	60	57	36	60
27/12/2021	23:00-07:00	45	40	45	43	37	45
28/12/2021	07:00-19:00			75	50	40	70
28/12/2021	19:00-23:00			60	40	34	60
28/12/2021	23:00-07:00	45	36	45	44	37	45
29/12/2021	07:00-19:00	47	46	75	60	54	70
29/12/2021	19:00-23:00	48	44	60	36	31	60
29/12/2021	23:00-07:00	45	40	45	44	36	45
30/12/2021	07:00-19:00			75	61	57	70
30/12/2021	19:00-23:00			60	40	34	60
30/12/2021	23:00-07:00	36	33	45	43	34	45
31/12/2021	07:00-19:00			75	56	42	70
31/12/2021	19:00-23:00			60	45	40	60
31/12/2021	23:00-07:00	32	32	45	44	40	45

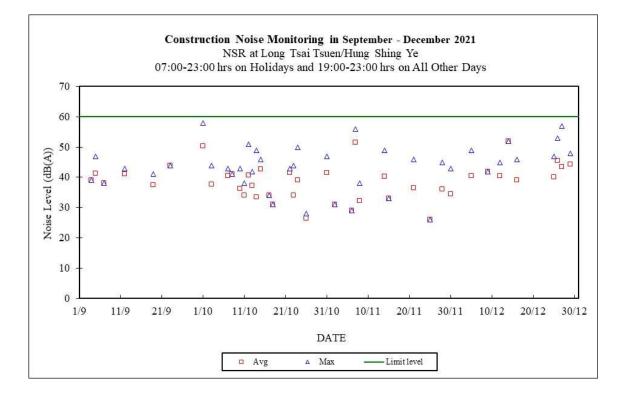
Note:

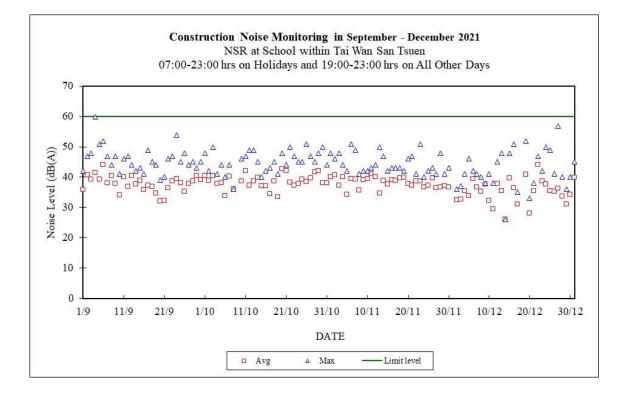
a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.

b. Continuous noise monitoring was also carried out at holidays & eveningtime (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time (23:00-07:00 hrs of next day).

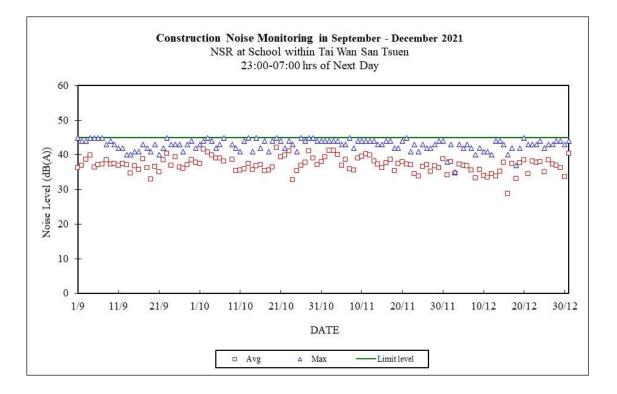












Appendix F

The QA/QC Procedures and Results

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

			Reservoir ((AM1)	
Date	Frequency ((240 - 27)		Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)
2/12/2021	267.487		4	3.04	13.25
8/12/2021	266.787		4	3.04	13.17
14/12/2021	266.071		4	3.00	13.14
20/12/2021	265.500		4	3.09	13.07
26/12/2021	265.060	ĺ.	4	3.11	13.21
			East Gate	(AM2)	
Date	Frequency ((240 - 27)		Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)
2/12/2021	250.925	i j	4	2.87	14.03
8/12/2021	249.798		4	3.09	14.06
14/12/2021	249.098		4	2.71	13.80
20/12/2021	248.422	ļ	4	2.78	14.14
26/12/2021	247.959		4	2.72	14.38
			Ash Lagoon	(4M2)	
Date	Frequency	Hz)	Operation Mode	Main Flow (I/min)	Bypass Flow (I/min)
Butt	(240 - 27		(Mode 4)	(2.70 - 3.30)	(12.30 - 15.04)
2/12/2021	255.571		4	3.00	13.67
8/12/2021	255.038	l j	4	3.00	13.68
14/12/2021	254.462		4	2.60	13.68
20/12/2021	254.364		4	3.00	13.68
26/12/2021	253.903		4	3.00	13.68
			Maintenance	Record	
			Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange			1	1	1
Clean TSP Inlet			1	1	1
Replace flow in-line filter			1	V	1
Pump Repair					
Leak Check					
Flow audit					

 Leak Check
 Image: Check

 Flow audit
 Image: Check

 Flow Controller Calibration
 Image: Check

 A/C filter cleaning
 Image: Check

<u>Remarks:</u>

Prepared by: Chris 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
15/12/2021 / 10:00	VVM TAM

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR74
New filter paper no.	MR75

Type of filter: Glass-fibre

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

Before:	5.066
After:	<u>5.019</u>

II. General Services

1.	Clean Rotameter:	Yes
2.	Clean / Replace Pump Valves:	<u>No</u>
3.	Clean / Replace Pump Diaphragms:	<u>No</u>
4.	Clean Impaction Inlet:	Yes
5.	Replace Timer Battery Every 6 months:	<u>No</u>
6.	Replace Inlet Filter:	Yes

<u>Remarks</u>

N/A

Conducted by: WM TAM

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

Date	Location:	Ash Lagoon	Location: Ching Lam	
	Calibration Results	Deviation from	Calibration Results	Deviation from
		Reference (dB)		Reference (dB)
01/12/2021	Passed	-0.12	Passed	-0.15
02/12/2021	Passed	-0.12	Passed	-0.15
03/12/2021	Passed	-0.15	Passed	-0.13
04/12/2021	Passed	-0.12	Passed	-0.15
05/12/2021	Passed	-0.13	Passed	-0.11
06/12/2021	Passed	-0.13	Passed	-0.13
07/12/2021	Passed	-0.11	Passed	-0.14
08/12/2021	Passed	-0.12	Passed	-0.14
09/12/2021	Passed	-0.13	Passed	-0.10
10/12/2021	Passed	-0.12	Passed	-0.14
11/12/2021	Passed	-0.12	Passed	-0.13
12/12/2021	Passed	-0.13	Passed	-0.16
13/12/2021	Passed	-0.12	Passed	-0.12
14/12/2021	Passed	-0.11	Passed	-0.13
15/12/2021	Passed	-0.11	Passed	-0.12
16/12/2021	Passed	-0.12	Passed	-0.11
17/12/2021	Passed	-0.15	Passed	-0.15
18/12/2021	Passed	-0.13	Passed	-0.15
19/12/2021	Passed	-0.15	Passed	-0.20
20/12/2021	Passed	-0.16	Passed	-0.17
21/12/2021	Passed	-0.12	Passed	-0.14
22/12/2021	Passed	-0.13	Passed	-0.11
23/12/2021	Passed	-0.12	Passed	-0.13
24/12/2021	Passed	-0.14	Passed	-0.14
25/12/2021	Passed	-0.18	Passed	-0.21
26/12/2021	Passed	-0.19	Passed	-0.20
27/12/2021	Passed	-0.16	Passed	-0.17
28/12/2021	Passed	-0.13	Passed	-0.17
29/12/2021	Passed	-0.13	Passed	-0.16
30/12/2021	Passed	-0.14	Passed	-0.16
31/12/2021	Passed	-0.15	Passed	-0.17

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 ± 0.5 dB.

Appendix G Event/Action Plans

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	

Table G.1Event and Action Plans for Air Quality

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

Table G.2Event and Action Plans for Construction Noise	
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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	Check Contractor's working methods and advise IEC and ET accordingly.	Submit proposals for remedial actions to Engineer.
		and advise the Engineer and ET accordingly.	Discuss with Contractor the remedial actions to be implemented.	Amend proposals if required by the Engineer.
	Discuss remedial actions required with	Verify the implementation of the remedial measures	Keep the Contractor informed of the efficacy of remedial actions.	Implement remedial actions immediately upon instruction from the Engineer.
	Engineer.		If the exceedance continues, consider what portion of the work is	If the exceedance continues, consider
	Increase manual monitoring frequency to assess efficacy of remedial measures.		responsible and instruct the Contractor to stop the portion of work until the exceedance is abated	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.3Event 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 consecutive sampling day	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;
	Inform Contractor, IEC and EPD;	Advise Engineer on the effectiveness of the proposed remedial measures	review the working methods;	Rectify unacceptable practice;
	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	Propose mitigation measures to Engineer within 3 working days and discuss with Engineer;
	Discuss mitigation measure with Engineer and Contractor;		implemented mitigation measures; Consider and instruct, if necessary,	
	Ensure mitigation measures are implemented;		- F · · · F · · · · · · · · ·	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

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
B3	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
В5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
B6	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
B7	In addition to the above specific measures the following general working procedures shall be adopted. **	
	• fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A
	• the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	• barges shall be loaded carefully to avoid splashing of material;	N/A
	• all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A
	• all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	• "rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	• the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels. **	N/A
	NOISE	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
C3	Mitigate against night time noise from dredging equipment, with silencers or mufflers. **	N/A
	1	
	LANDSCAPE & VISUAL IMPACTS	
D1	The following mitigation measures shall be allowed for landscape and visual improvement:	
	• Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look.	С
	• Break the mass of main buildings by varying the height/division into smaller units.	С
	Plant trees and vegetation for screening.	С
	• Adopt colour scheme to blend the buildings into the scenery.	С

EM&A Log Ref.	Mitigation Measures	Implementation Status				
	WASTE MANAGEMENT					
E1	HEC to submit a Waste Management Plan for the construction phase to EPD. The Plan shall be verified by the IEC and shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommendations of the EIA report.	С				
	Dredging Waste					
E2	All vessels for marine transportation of dredged sediment shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials. In addition, loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water, and barges or hoppers should under no circumstances be filled to a level which shall cause the overflowing of materials or polluted water during loading or transportation**	N/A				
	Storage, Collection and Transport of Waste					
E3	• Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.	С				
	• Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap.354), Waste Disposal (Chemical Waste) (General) Regulation (Cap.354), the Crown Land Ordinance (Cap 28), Dumping at Sea Ordinance (Cap 466) and Work Branch Technical Circular No. 22/92, Marine Disposal of Dredged Mud.	С				
	• Disposal of waste at Licensed sites;	С				
	• Develop procedures such as a ticketing system to facilitate tracking of marine mud and chemical waste, and to ensure that illegal disposal does not occur;	С				
	 Segregate and sort the waste materials into 3 categories: public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area; re-use and/or recycling waste (e.g. steel and other metals); waste which cannot be re-used and/or recycled (e.g. wood, glass and 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					
	MANINE EUULUGI					

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
С	-	Compliance with mitigation measure
NC	-	Non-compliance with mitigation measure
N/A	-	Not Applicable

Appendix H Summary of Site Audit Findings

L11 Civil and Building Works

Dates of Inspection: 7/12/2021, 14/12/2021, 23/12/2021 and 28/12/2021.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

L11 Mechanical, Electrical, Instrumentation & Control Erection Works

Dates of Inspection: 2/12/2021, 9/12/2021, 16/12/2021, 23/12/2021 and 30/12/2021.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

L12 Civil and Building Works

Dates of Inspection: 7/12/2021, 14/12/2021, 23/12/2021 and 28/12/2021.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

L12 Mechanical, Electrical, Instrumentation & Control Erection Works

Dates of Inspection: 2/12/2021, 9/12/2021, 16/12/2021, 23/12/2021 and 30/12/2021.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

Summary of EMIS

Power Station – (Part B of EIA Report)

Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	• the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	С
	• the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	С
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	N/A
	• The materials which may generate airborne dust emissions shall be wetted by water spray system.	N/A
	• All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	N/A
	• All conveyor transfer points shall be totally enclosed.	N/A
	WATER QUALITY	
B1	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging. **	N/A
В3	As a necessary operational constraint combined bulk dredging and sand filling for site formation shall not be permitted at any time. In addition, sand filling for site platform shall take place behind constructed sea walls which pierce the water surface. **	N/A
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay.	N/A
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
B6	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
B7	In addition to the above specific measures the following general working procedures shall be adopted. **	
	• fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A
	• the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	• barges shall be loaded carefully to avoid splashing of material;	N/A
	• all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A
	• all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	• "rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	• the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels. **	N/A
	NOISE	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
C3	Mitigate against night time noise from dredging equipment, with silencers or mufflers. **	N/A
	LANDSCAPE & VISUAL IMPACTS	
D1	The following mitigation measures shall be allowed for landscape and visual improvement:	
	• Use rubble mound seawall along south and west edges of the reclamation to provide a more natural look.	С
	• Break the mass of main buildings by varying the height/division into smaller units.	С
	Plant trees and vegetation for screening.	С
	• Adopt colour scheme to blend the buildings into the scenery.	С

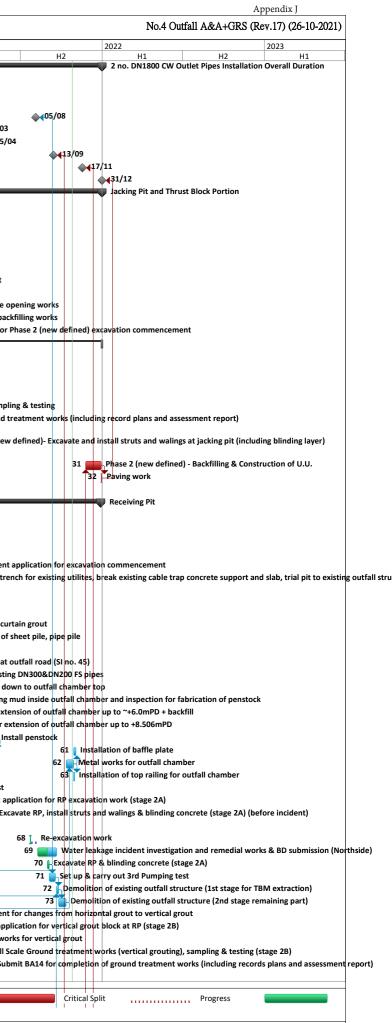
EM&A Log Ref.	Mitigation Measures	Implementation Status
	WASTE MANAGEMENT	
E1	HEC to submit a Waste Management Plan for the construction phase to EPD. The Plan shall be verified by the IEC and shall describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities and shall take into account the recommendations of the EIA report.	С
	Dredging Waste	
E2	All vessels for marine transportation of dredged sediment shall be fitted with tight fitting seals to their bottom openings to prevent leakage of materials. In addition, loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water, and barges or hoppers should under no circumstances be filled to a level which shall cause the overflowing of materials or polluted water during loading or transportation**	N/A
	Storage, Collection and Transport of Waste	
E3	• Minimise windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.	С
	• Obtain the necessary waste disposal permits from the appropriate authorities, if they are required, in accordance with the Waste Disposal Ordinance (Cap.354), Waste Disposal (Chemical Waste) (General) Regulation (Cap.354), the Crown Land Ordinance (Cap 28), Dumping at Sea Ordinance (Cap 466) and Work Branch Technical Circular No. 22/92, Marine Disposal of Dredged Mud.	С
	• Disposal of waste at Licensed sites;	С
	• Develop procedures such as a ticketing system to facilitate tracking of marine mud and chemical waste, and to ensure that illegal disposal does not occur;	С
	 Segregate and sort the waste materials into 3 categories: public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area; re-use and/or recycling waste (e.g. steel and other metals); waste which cannot be re-used and/or recycled (e.g. wood, glass and 	С
	 plastic) for landfill disposal. The sorting process shall be carefully monitored to avoid missing of the 3 categories. Different types of wastes shall be stockpiled and stored in different containers or skips to enhance re-use or recycling of materials 	
	 and their proper disposal. Maintain records of the quantities of wastes generated and disposed off-site for each category of waste. 	С
E4	Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes	С
	LAND CONTAMINATION	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	MARINE ECOLOGY	

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
С	-	Compliance with mitigation measure
NC	-	Non-compliance with mitigation measure
N/A	-	Not Applicable

	Task Name	Duration 9	Start	Finish %	Complete 201		2019 2020 2021	
1	no DN1800 CW Outlet Pines Installation Overall Duration	052 days	E.:: 02/11/19	E.:: 21/12/21	959/	H1	H2 H1 H2 H1 H2 H1	
2	2 no. DN1800 CW Outlet Pipes Installation Overall Duration Completion of pumping test	<u>952 days</u> 0 days	Fri 02/11/18 Wed 27/01/21	Fri 31/12/21 Wed 27/01/21	<u>85%</u> 100%		▲ 427/01	
3	A&A work for extension of outfall chamber up to +8.506mPD	0 days	Tue 19/01/21	Tue 19/01/21	100%		¢19/01	
4	Complete ELS at jacking pit	0 days	Thu 11/02/21	Thu 11/02/21	100%		11/02	2
5	Complete ELS at receiving pit	0 days	Thu 05/08/21	Thu 05/08/21	100%			
6	Make opening at JP for pipe jacking works	0 days	Mon 29/03/21	Mon 29/03/21	100%			29/03
7	Completion of ground treatment works at receiing pit	0 days	Thu 15/04/21	Thu 15/04/21	100%			4 15/0
8	Completion of jack sleeve pipe	0 days	Mon 13/09/21	Mon 13/09/21	50%			
9	Install DN1800 CW outlet pipes from jacking pit to receiving pit	0 days	Wed 17/11/21	Wed 17/11/21	0%			
10	Completion of backfilling, U.U. and Paving for EVA	0 days	Fri 31/12/21	Fri 31/12/21	0%			
11	Jacking Pit and Thrust Block Portion	952 days	Fri 02/11/18	Fri 31/12/21	95%		11 🗣	
12	Submission and approval of ELS plan amendment	30 days	Fri 02/11/18	Sat 01/12/18	100%		12 Submission and approval of ELS plan amendment	
13	Re-submission and approval of ELS plan amendment	60 days	Wed 27/02/19	Sat 27/04/19	100%		13 Re-submission and approval of ELS plan amendment	
14	Approval of re-submission (dated 2/5/2019; received on 21/5/2019)	0 days	Tue 21/05/19	Tue 21/05/19	100%		14 Approval of re-submission (dated 2/5/2019; received on 21/5/2019)	
15	Consent application for sheetpile installation	28 days	Wed 22/05/19	Tue 18/06/19	100%		15 Consent application for sheetpile installation	
16	Submit BA14 for completion of Phase 1 & 2 sheetpile	23 days	Wed 19/06/19	Thu 11/07/19	100%		16 Submit BA14 for completion of Phase 1 & 2 sheetpile	
17	Amendment submission (re-phasing)	30 days	Fri 19/07/19	Sat 17/08/19	100%		17 Amendment submission (re-phasing)	
18	Consent application for Phase 1 (new defined) excavation commencement	28 days	Sun 18/08/19	Sat 14/09/19	100%		18 in Consent application for Phase 1 (new defined) excavation commencem	nent
19	Consent application for Ground Treatment Works	28 days	Tue 18/06/19	Mon 15/07/19	100%		19 Consent application for Ground Treatment Works	
20	Consent application for JP sheetpile opening works	28 days	Thu 02/07/20	Wed 29/07/20	100%		20 Consent application for JP sheet	
21	Submit BA14 for completion of Phase 1 (new defined) backfilling works	14 days	Sun 02/02/20	Sat 15/02/20	100%		21 Submit BA14 for completion of Phase 1 (new define	
22	Consent application for Phase 2 (new defined) excavation commencement	28 days	Sun 18/10/20	Sun 15/11/20	100%		22 Consent application	on tor F
23	Phase 2 (new defined) - Jacking Pit	929 days	Thu 29/11/18	Fri 31/12/21	87%			
24	Mobilization	2 days	Thu 29/11/18	Fri 30/11/18	100%		24 Mobilization	
25	Phase 1 - Install sheetpile for jacking pit	32 days	Wed 12/12/18	Mon 21/01/19	100%		25 Phase 1 - Install sheetpile for jacking pit	
26	Trial grouting for ground treatment works, sampling & testing	21 days	Fri 25/10/19	Mon 18/11/19	100%		26 Trial grouting for ground treatment works, sampling & testing	
27	Submit trial grouting assessment report	35 days	Tue 19/11/19	Tue 31/12/19	100%		27 Submit trial grouting assessment report 28 Ground treatment works (full scale), s	compl
28	Ground treatment works (full scale), sampling & testing Submit BA14 for completion of ground treatment works (including record plans and	75 days	Thu 12/03/20 Thu 25/06/20	Sat 13/06/20 Wed 08/07/20	100% 100%		28 Ground treatment works (full scale), 29 Submit BA14 for completion of gro	
29	assessment report)	14 days						
30	Phase 2 (new defined)- Excavate and install struts and walings at jacking pit (including blinding layer)	28 days	Mon 11/01/21	Thu 11/02/21	100%		30 Phase 2	2 (new
31	Phase 2 (new defined) - Backfilling & Construction of U.U.	30 days	Thu 25/11/21	Wed 29/12/21	0%			
32	Paving work	2 days	Thu 30/12/21	Fri 31/12/21	0%			
33	Phase 1 (new defined) - Thrust Block Portion	247 days	Mon 06/05/19	Sat 29/02/20	100%			
43	Receiving Pit	928 days	Tue 27/11/18	Tue 28/12/21	92%		43	
44	Submission and approval of ELS plan	60 days	Tue 27/11/18	Fri 25/01/19	100%		44 Submission and approval of ELS plan	
45	Re-Submission and approval of ELS plan	60 days	Fri 15/03/19	Mon 13/05/19	100%		45 Re-Submission and approval of ELS plan	
46	Approval of re-submission (dated 21/5/2019; received on 30/5/2019)	0 days	Thu 30/05/19	Thu 30/05/19	100%		46 Approval of re-submission (dated 21/5/2019; received on 30/5/2019)	
47	Consent application for pipe pile and sheetpile installation	28 days	Mon 03/06/19	Sun 30/06/19	100%		47 Consent application for pipe pile and sheetpile installation	
48	Consent application for excavation commencement	28 days	Tue 23/02/21	Mon 22/03/21	100%		48 Co 49 Advance works - Tree prunning, felling, removing street funiture, tr	onsent
49	Advance works - Tree prunning, felling, removing street funiture, trial trench for existing utilites, break existing cable trap concrete support and slab, trial pit to existing outfall structure, protection work to nearby existing cable tray, hoarding	95 days	Mon 24/06/19	Wed 16/10/19	100%		Auvance works - tree prunning, tening, tening, tening street functie, u	
50	Form platform	69 days	Thu 25/07/19	Wed 16/10/19	100%		50) Form platform	
51	Install pipe pile (30no.), sheetpile, pre-grout & curtain grout	150 days	Mon 21/10/19	Wed 22/04/20	100%		51 Install pipe pile (30no.), sheetpile, pre-grout	it & cur
52	Submt BA14 for completion of installation of sheet pile, pipe pile	28 days	Thu 23/04/20	Wed 27/05/20	100%		52 늍 Submt BA14 for completion of installati	t <mark>ion</mark> of :
53	Install pumping well & observation well	21 days	Thu 23/04/20	Tue 19/05/20	100%		53 🦢 Install pumping well & observation well	i
54	Preparation works for road closure at outfall road (SI no. 45)	36 days	Tue 09/06/20	Wed 22/07/20	100%		54 Preparation works for road closu	ure at (
55	Excavate and divert existing DN300&DN200 FS pipes	80 days	Thu 23/07/20	Tue 27/10/20	100%		55 Excavate and divert	existin
56	Open cut excavation down to outfall chamber top	20 days	Wed 28/10/20	Thu 19/11/20	100%		56 🧰 Open cut excavat	
57	Removal of existing mud inside outfall chamber and inspection for fabrication of penstock	5 days	Wed 09/12/20	Mon 14/12/20	100%		57 Removal of exi	
58	A&A work for extension of outfall chamber up to ~+6.0mPD + backfill	35 days	Fri 20/11/20	Fri 01/01/21	100%		58 A&A work fo	
59	A&A work for extension of outfall chamber up to +8.506mPD	15 days	Sat 02/01/21	Tue 19/01/21	100%		59 🁗 A&A work	
60	Install penstock	5 days	Tue 04/05/21	Sat 08/05/21	100%		60	i0 j Ins
61	Installation of baffle plate	4 days	Fri 29/10/21	Tue 02/11/21	0%			T
62	Metal works for outfall chamber	15 days	Tue 12/10/21	Thu 28/10/21	0%			
63	Installation of top railing for outfall chamber	2 days	Fri 29/10/21	Sat 30/10/21	0%			
64	Pumping test	12 days	Thu 14/01/21	Wed 27/01/21	100%		64 Pumping	
65	Consent application for RP excavation work (stage 2A)	28 days	Thu 28/01/21	Mon 01/03/21	100%		65 Cons	
66	Excavate RP, install struts and walings & blinding concrete (stage 2A) (before incident)	54 days	Tue 02/03/21	Mon 03/05/21	100%		66	Exca
67	Water leakage incident investigation and remedial works & BD submission (Southside)	67 days	Tue 04/05/21	Tue 20/07/21	100%			
68	Re-excavation work	12 days	Fri 23/07/21	Thu 05/08/21	100%			
69	Water leakage incident investigation and remedial works & BD submission (Northside)	37 days	Mon 09/08/21	Mon 20/09/21	50%			
70	Excavate RP & blinding concrete (stage 2A)	4 days	Tue 31/08/21	Fri 03/09/21	100%			$\downarrow \downarrow$
71	Set up & carry out 3rd Pumping test	12 days	Sat 04/09/21	Fri 17/09/21	0%			
72	Demolition of existing outfall structure (1st stage for TBM extraction)	5 days	Mon 20/09/21	Fri 24/09/21	0%			$\downarrow \downarrow$
73	Demolition of existing outfall structure (2nd stage remaining part)	14 days	Sat 25/09/21	Mon 11/10/21	0%			
74	BD amendment for changes from horizontal grout to vertical grout	30 days	Tue 15/12/20	Wed 20/01/21	100%		74 BD amend	
75	Consent application for vertical grout block at RP (stage 2B)	28 days	Fri 15/01/21	Tue 16/02/21	100%		75 Conser	
76	Preparation works for vertical grout	30 days	Tue 15/12/20	Wed 20/01/21	100%		76 Preparatio	
77	Full Scale Ground treatment works (vertical grouting), sampling & testing (stage 2B) Submit BA14 for completion of ground treatment works (including records plans and	50 days 14 days	Wed 17/02/21 Fri 16/04/21	Thu 15/04/21	100%		77	Full So Subi
78	Suburn DA14 for completion of ground treatment works (including fecords blans and	14 davs	ETT 10/04/21	Thu 29/04/21	100%		/8	(Duc)



Page 1 of 2

	Name	Duration	Start	Finish	% Complete 2018			2019			2020	1		2021			2022			202	
	Consent application for pipe pile opening works	28 days	Fri 23/04/21	Thu 20/05/21	100%	H1	H2	ŀ	H1	H2		H1	H2		11 Consen	H2	or pipe pile ope	H1 hing works	H2		H1
1	Pipe pile opening works	5 days	Sat 04/09/21	Thu 09/09/21	0%									1			e opening worl				
	Extraction of TBM (1st pipe)	4 days	Sat 25/09/21	Wed 29/09/21	0%												ction of TBM (1				
	RP - Backfilling	14 days	Mon 13/12/21	Tue 28/12/21	0%											• • • •	2 🔲 RP - Back				
	ipe Jacking (2 no.)	226 days		Wed 10/11/21	78%									83			Pipe Jacking (
-	Set up for pipe jacking works	20 days	Sat 20/02/21 Sat 20/02/21	Mon 15/03/21	100%									· · · · ·	Set up for pipe j			,			
	Make opening at JP for pipe jacking works	2 days	Tue 16/03/21	Wed 17/03/21	100%										Make opening a						
	Jack sleeve pipe no. 1 (first 40m of 70m)	30 days	Thu 18/03/21	Wed 21/04/21	100%										ack sleeve)			
	Jack sleeve pipe no. 1 (final 30m of 70m) [Ground treatment works at RP shall be completed according to JP approval plan.]		Thu 22/04/21	Fri 14/05/21	100%														eatment worl	s at RP sha	be completed acc
]	Pick up TBM from receiving pit and re-setup at jacking pit	2 days	Thu 30/09/21	Fri 01/10/21	0%											88 Pick	up TBM from r	eceiving pit and	l re-setup at ja	cking pit	
	Jack sleeve pipe no. 2 (70m)	15 days	Thu 21/10/21	Sun 07/11/21	0%												lack sleeve pip				
]	Pick up TBM from receiving pit	3 days	Mon 08/11/21	Wed 10/11/21	0%												1111.	om receiving pi			
CV	W pipes installation and Inspection Manhole at Jacking Pit	48 days	Thu 21/10/21	Wed 15/12/21	0%												_ M	s installation an	•		-
]	Modify existing outfall structure for connection of CW pipe at outfall	30 days	Thu 11/11/21	Wed 15/12/21	0%													-			CW pipe at outfall
	Install DN1800 CW outlet pipes from jacking pit to receiving pit (1st pipe)	6 days	Thu 28/10/21	Wed 03/11/21	0%																ng pit (1st pipe)
	Install DN1800 CW outlet pipes from jacking pit to receiving pit (2nd pipe)	6 days	Thu 11/11/21	Wed 17/11/21	0%														es from jacki	g pit to rec	iving pit (2nd pipe
	Annulus grout (1st pipe)	5 days	Thu 04/11/21	Tue 09/11/21	0%												nnulus grout (• • • •			
	Annulus grout (2nd pipe)	5 days	Thu 18/11/21	Tue 23/11/21	0%												Annulus grou				
	Demolition of thrust block, cut sheet pile for connection of CW pipes to dog house at Jacking	-	Thu 18/11/21	Sat 20/11/21	0%																on of CW pipes to a
	CW pipes connection at Jacking Pit to existing portion	3 days	Mon 22/11/21	Wed 24/11/21	0%												<u>u ' ' '</u>	nnection at Jack	-		
	CW pipes connection to existing outfall structure at Receiving Pit	15 days	Thu 25/11/21	Sat 11/12/21	0%											99	CW pipes c	connection to ex	xisting outfall	structure a	Receiving Pit
		247 days		Sat 12/12/20	72%									1							
ext	12&L13 Outlet culvert(Connection to Jacking Pit) at Area E15(A) and associated ternal works at area E15(B)	357 days		Wed 21/04/21	59%							_	_								
	as Receiving Station and L11 Gas Receiving Station Equipment Room(GRS) area ctension at Area E16	202 days	Thu 12/03/20	Sat 14/11/20	90%								ĺ								

Task

Split

 \diamond Milestone

Summary

	タスク名	网络约3	開始日	輕了日	
		104468	- THOMASHY	noi-differ I	
1	Key Date	613日	19/12/16(月)	21/12/01 (水)	
2	H. O HRSG Foundation	1日	19/12/16(月)	19/12/16 (月)	
3 📖	H/O OHC Installation	1日	19/12/16(月)	19/12/16 (月)	
	H/O HRSG Exhaust duct	1日	20/02/01 (土)	20/02/01 (土)	
5 📾	H O Condenser foundation	1日	20/03/09(月)	20/03/09(月)	
5 🛄	H/O Aux. equipment foundation of HRSG	1日	20/03/16(月)	20/03/16 (月)	
	north side H/O GT Exhaust duct foundation	1日	20/05/01 (金)	20/05/01 (金)	H/O Aux. equipment foundation of HRSG north dide 🗢 03/16
	H_O MSB building (partial)	1日	20/06/01 (月)	20/06/01 (月)	H/O GT Exhaust duct foundation 🗢 05/01
	Dismantling the Tower Grane (PY)	1日	20/06/22(月)	20/06/22 (月)	H/O MSB building (partial) ♠ 06/01
0 003	PY cast the concrete of G_F	20日	20/06/08(月)	20/06/30 (火)	Dismantling the Towler Crane (PY) - 66/22
1	MSB Full access	1日	20/07/01 (水)	20/07/01 (7)	PY cast the concrete of G/F
2 1113	H O Foundation around CCW-Cooler	18	20/05/16(土)		MSB Full access 🕏 07/01
3	H/O Foundation around Transformer	1日	20/07/01 (水)		H/O Foundation around CCW-Cooler 🚸 05/15
1 100	O/B GT & GEN	10日	20/09/01 (火)		H/O Foundation arbund Transformer 🔷 07/01
5	Power Receiving	1日	21/02/01 (月)		O/B GT,& GEN- 109/01
5	Hydrostatic test (Can't promise)	1日	21/05/31 (月)		Power Receiving
(C)	Receiving Lube Oil	1日	21/05/24(月)		*TDK challenge to move "hydr
1	GT First Firing	1日	21/11/01(月)		
	Synchronization	1日	21/12/01 (7)		
0					
н	IRSG	663日	19/12/16(月)	22/01/28 (金)	
	Make the condition for construction	2日	19/12/16 (月)	19/12/17 (火)	HRSC V
6	Center line marking	3日	19/12/18 (水)	19/12/20 (金)	Make the condition for construction
	Chipping	15日	19/12/21(土) ;	20/01/07 (火)	Center line marking.
	Packer setting	10日	19/12/28(土) :	20/01/08 (水)	Chipping
_	Lay down Pipes under HRSG	4日	20/01/09(木) 2		Packar setting
_	Unloading Short legs and Bottom casing	1日	20/01/04(土) 2		Lay down Pipes under HRSG 🧁
	Short legs setting	9日	20/01/09(木) 2		Unloading Short legs and Bottom clasing 🙀
-	Prepare for installing Bottom casing	3日	20/01/16(木) 2		Short logs setting
	Lifting and installing Bottom casing	6日	20/01/20(月) 2		Prepare for installing Bottom casing
	Welding Short legs and Bottom casing	35日	20/01/30(木) 2		Lifting and installing Bottom casing
_	Setting and welding Brace gusset	35日	20/01/30(木) 2		Welding Short legs and Bottom casing
-	Setting and welding SCR bottom frame	35日	20/01/30(木) 2		Setting and welding Brace guisses
_	Setting FL+2.5m floor structure	17日	20/01/30(木) 2		Setting and welding SQR bottom frame
_	Insulation and lagging on Bottom casing	17日	20/02/17(月) 2		Setting FL+2.5m floor structure
_	Unloading Side casing and Top Casing #1	2日	20/02/08(±) 2		Insulation and lagging on Bottom casing
	Lifting and installing Side casing	42日	20/06/23(火) 2		Unloading Side casing and Top Casing #1
	Lifting and installing Top casing	42日	20/06/23(火) 2 20/06/30(火) 2		Lifting and installing Side casing
_	Lifting and installing SCR	42日			Lifting and installing Top cashraphine managements
	Lifting and installing SCR		20/07/08(水) 2 20/08/20(本) 2		Lifting and installing S60H)
		2日	20/08/20(木) 2		Lifting and installing AIG
_	Unloading Side casing and Top Casing #2	1日	20/07/10(金) 2		Unloading Side casing and Top Casing #2.4
	Installation of piping, header, support, EXP inside HRSG		20/07/16(木) 2		Installation of piping, header, support, EXP inside HIGGP
	Lifting and installing HRSG inlet duct	2日	20/08/25(火) 2		Lifting and installing HRSG Inlet during
ETT	Setting FL+6/10m floor structure (Left side of HRSG)	55日	20/05/15(金) 2	0/07/17(金)	Sotting FL=6/10m floor structure (Left side of HRSQ)

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

To consider the delay of H/O date from PDC
 Add the schedule of the electric work and the replacement the gantry crane for CWP

年06月2021 中旬下旬上旬	年07月 2021年 中旬下旬上旬中1	手08月 2021年 何下旬上旬中旬	09月2021年10 下旬上旬中旬下)月 2021年11月 旬上旬中旬下旬	2 2021年12月 2 上旬中旬下旬上	022年 022年01月 2022年02 旬中旬下旬上旬中旬下
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			T First Firing			
		G		shronization	12/01	_
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H.						
						01 J S U h

14	スク名	ANIM	開始日	終了日	Construction Schedule of Unit-11
ľ		142[11]	1012963 (-1	4E 3 EI	2020年
	North side stair frame & EV structure	90日	20/08/22 (土)	20/12/04 (金)	2020年 2020年 9年08月 2019年09月 2019年10月 2019年11月 2019年11月 2029年01月 2020年01月 2020年02月 2020年03月 2020年03月 2020年05月 2020年05月 2020年05月 2020年06月 2020年06月 2020年06月 2020年06月 2020年10月 2020年11月 2020年11月 2021年01月 2021年03月 2021年04月 2021年05月 2021年05月 2021年05月 2021年06月 2021年06月 2021年06月 2021年06月 2021年06月 2021年06月 2021年06月 2021年06月 2021年05月 2021年05月 2021年05月 2021年05月 2021年06月 2021年06月 2021年06月 2021年06月 2021年06月 2021年07月 2021年06月 2020年10月 2020年10月 2020年11月 2021年06月 2020年10月 2021年06月 2020年10月 2020年10月 2020年11月 2021年11月 2021年05月 2021年06月 2021年11月 2021年11月 2021年11月 2021年11月 2021年11日 2011年11日 2011年11日 2011年11日 2011年11日 2011年11日 2011年11日 2011年11日 2
	Setting FL+29m floor structure (Above tube bundle)	30日	20/10/01 (木)		North side stair frame & EV structure
	South side stair frame	60日	21/02/25 (木)	21/05/05 (水)) Setting FL+20m floor structure (Above tube bundle)
	Setting roof structure (Including deferable	120日	20/12/04 (金)	21/04/22 (木))
	structure) Prepare unloading Tube bundle	10日	20/09/04(金)	20/09/16 (水)	Setting roof dructure (Including deferable structure)
	Unloading Tube bundle #1 (9set)	3日	20/09/16 (水)		Preparbunioading Tube bunch
	Prepare installing Tube bundle #1 (9set)	5日	20/09/19(土)	20/09/24 (木)	Unipading Tube bundle #1 (9set)##1
	Period for the installation of Power Train	0日	20/09/24 (木)		Prepare installing Tube bunde = (Suet) 🚋
	Lifting and installing Tube bundle #1 (9set)	12日	20/09/25(金)		₩ 09/24
	Unloading Tube bundle #2 (6set)	2日	20/10/10(土)	20/10/12(月)	Lifting and installing Tube bundle #1 (9sot)
	Prepare installing Tube bundle #2 (6set)	4日	20/10/13 (火)		Unloading Tibe jundle #2 (6set) 👗
	Lifting and installing Tube bundle #2 (6set)	8日	20/10/17(土)		Propare installing Tube bundle #2 (6set)
		8日	20/09/01 (火)		üfting and installing Tube bundle #2 (Scet) 🏧
	Lifting and setting HP-Drum	1日	20/10/14 (水)		Lifting Down commer piping (pro-assembling)
	Lifting and setting IP-Drum	1日	20/10/31(土)		Lifting and patting HP-Drum
	Lifting and setting LP-Drum	1日	20/11/04 (水)		Litting and setting IP-Drume
		2日	20/11/18 (水)		Lifting and setting LP-Drum
	Adjusting HDR level (HP)	10日	20/11/05 (木)		Lifting and installing HRSG Outlet duct
	Adjusting HDR level (IP & LP)	15日	20/11/17(火)		Adjusting HDR level (HP)
		5日	21/04/23(金)		Adjusting HDR level (JP & LP)
	Assembly accessory inside HRSG	180日	21/03/19(金)		Lifting and setting the silencer of HRSG 🎽
	Excavation the foundation of UTAC (By Civil)		21/02/01(月)		Assembly accessory injude HRSG
		90日	21/02/25(木)		Excavation the foundation of UTAC (By Civil)
	CO2 Fire fighting	50日	21/04/13(火)		Urea to Ammonia conversion systemy
		20日	22/01/06 (木)		-002 First fighting
					Installat
	Lifting and hang Pipes (Left side of HRSG)	80日	20/07/16 (木)	20/10/16 (金)	
	Fitting Pipes (Inside of HRSG / HP)	90日	20/11/17 (火)	21/03/01(月)	Lifting and hang Pipes (Left aide of HRS3)
	Fitting Pipes (Inside of HRSG / IP,LP)	90日	20/12/04 (金)	21/03/18(木)	(Twing Prove strated of PROV at
	Lifting FL+29m and roof structure	40日	20/12/04(金)	21/01/19(火)	Fitting Pipes (Inside of HRSG / IPLP)
	Lifting and hang Pipes (Upper HRSG)	60日	20/12/04 (金)	21/02/11 (木)	Lifting FL-29m and nodf structure
	Fitting and welding Pipes in range of Hydrostatic	150日	20/11/17 (火)	21/05/10(月)	Lifting and hang Pipes (Upper HR)SG)
	Fitting and welding Pipes out range of Hydrostatic	160日	21/03/02 (火)	21/09/03 (金)	Fitting and welding Piges in range of Hydrostatic
					Etting and welding Pipes out range of Hydrostatic History and Antonia
	Prepare for preassemble Side and Top Casing	10日	20/01/24 (金)	20/02/07 (金)	
	Preassembly Side casing (2set)	30日	20/02/11 (火)	20/03/16(月)	
	Preassembly Top casing (HP and IP)	30日	20/02/11 (火)	20/03/16(月)	
	Prepare for preassemble SCR	3日	20/03/20 (金)	20/03/24 (火)	
	Preassembly SCR	12日	20/03/24 (火)	20/04/06 (月)	
	Prepare for preassemble AIG	3日	20/07/27 (月)	20/07/30 (木)	
	Preassembly AIG	18日	20/07/30 (木)	20/08/20(木)	
	Prepare for preassemble HRSG Inlet duct	4日	20/06/20 (土)	20/06/25(木)	
	Preassembly HRSG Inlet duct	52日	20/06/25 (木)	20/08/25 (火)	
	Prepare for preassembly HRSG Outlet duct	4日	20/09/28(月)	20/10/02(金)	Preassembly HRSG Inlet duct
	Preassembly HRSG Outlet duct	40日	20/10/02 (金)	20/11/18 (水)	Prepare for preassembly HRSG Dutlet duct

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

5. Add the schedule of the electric work and the replacement the gantry crane for CWP

	92,08	NU TUT	開始日	转了日	Construction Schedule of Unit-11
115			anna H	127-24	2023年 2023年 2023年
0	Preassembly FL+29m floor structure #1	1813	20/08/01 (土)	20/08/22(±)	2020年 9年08月 2019年09月 2019年10月 2019年10月 2019年11月 2019年11月 2020年01月 2020年02月 2020年03月 2020年03月 2020年05月 2020年05月 2020年05月 2020年05月 2020年06月 2020年09月 2020年10月 2020年10月 2020年11月 2020年11月 2020年12月 2021年03月 2021年03月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年07月 2021年09月 2021年10月 2021年11月 2021年11月 2021年11月 2021年03月 2021年03月 2021年05月 2021年11月
2					Preasembly FL+29m floor structure #1
3	HRSG Exhaust duct	445日	20/02/01(土)	21/07/02(金)	
4	Make the condition for construction	5日	20/02/01 (土)	20/02/06 (木)	HRSQ Exhaust duet
5	Center line marking	5日	20/02/01 (土)	20/02/06 (木)	Make the condition for construction
6	Chipping	20日	20/02/07 (金)	20/02/29 (土)	Center line marking
7	Packer setting	20日	20/02/19 (水)	20/03/12 (木)	Chipping
8	Building structure in the part of ED4	25日	20/05/15 (金)	20/06/12(金)	Packer setting.
	Building structure in the part of ED5,6 (By 2nd	15日	20/06/25(木)	20/07/11(土)	Building structure in the part of ED4
0	Grouting structure for exhaust duct (Nearly stack) 10日	20/06/13(土)	20/06/24 (水)	Building shucture in the part of ED5.6 (By 2nd tier)
1 📖	Receiving Exhaust duct ED4	2日	20/05/01 (金)	20/05/02 (土)	Grouting structure for exhaust duct (Nearly stack)
2 😻	Lifting and assembly the Elbow duct in ED4	30日	20/07/13(月)	20/08/15(土)	Receiving Exhaust duct ED4
3 👹	Preassembling other duct in ED4	40日	20/05/04(月)	20/06/18 (木)	Lifting and assembly the Elbow duct in ED\$
4	Lifting and connecting the duct of ED4	5日	20/08/17(月)	20/08/21 (金)	Preasambling other duct in ED4 [[]]]]]]
5 🕅	Receiving Exhaust duct ED5,6	2日	20/06/15(月)	20/06/16 (火)	Lifting and connecting the duct of ED4 Ms
6 💥	Preasembling ED5, 6	70日	20/06/15(月)	20/09/03 (木)	Receiving Exhautt duct ED5,6-1
7	Building structure in the part of ED5,6 (Above 2nd tier)	50日	20/08/22 (土)	20/10/19(月)	Preasembling EDS, 0011111111111111111111111111111111111
8	Period for the installation of tube bundles	7日	20/10/20(火)	20/10/27 (火)	Building structure in the part of EDS(6 (Atlave 2nd tier)
9	Lifting and connecting the duct of ED5,6	15日	20/10/31 (土)	20/11/17(火)	Period for the installation of tube bundles
0 🎎	Building structure in the part of ED1-3	55日	20/11/24 (火)	21/02/15(月)	Lifting and donnecting the dust of EDS,6
	Grouting structure for exhaust duct (Horizontal)	10日	21/02/16 (火)	21/02/26 (金)	Building structure in the part of ED1-3-
2 💼	Receiving Exhaust duct ED1-3	2日	20/06/30(火)	20/07/01 (大)	Grouting structure for exhaust duct (Horizontal)
3	Preassembling ED1-3	120日	20/09/04 (金)	21/01/21 (木)	Receiving Exhaust duist ED1-3.
4 😻	Lifting and connecting the duct of ED1-3	25日	21/02/13(土)	21/04/22 (木)	Pressenbling ED1-3
5	Scaffolding, welding, insulation	140日	21/01/21 (木)	21/07/02 (金)	Scaffolding, walding, insulation
5	Period of crane for vertical duct	18日	20/10/30 (金)	20/11/19 (木)	
7					Period of crahe for vertical duct
	Over Head Grane	75日	19/12/14 (土)	20/03/13 (金)	Over Head Crane
1	Check the location of installation	1日	19/12/17 (火)	19/12/17(火)	Check the location of installation
)	Lifting and setting the rail for OHC	16日	19/12/18 (水)	20/01/04(土)	Lifting and setting the rail for OHC
C.	Prepare for preassembling OHC	5日	19/12/14 (土)	19/12/20 (金)	Prepare for preassembling QHC
!	Unloading OHC material	2日	19/12/20(金)	19/12/23 (月)	Unloading OHC material
k	Preassembly OHC	15日	19/12/23(月)	20/01/09 (木)	Preasembly OHC
	Lifting and setting Aux. OHC Garter	4日	20/01/09 (木)	20/01/13 (月)	Lifting and setting Aux. OHC Garter
	Lifting and setting Main, OHC Garter	4日	20/01/14 (火)	20/01/17 (金)	Lifting and setting Main. OHC Garter
l I	Installing electrical equipment	20日	20/01/18(土)	20/02/13(木)	Installing electrical equipment
1	Commissioning	25日	20/02/14(金)	20/03/13 (金)	Commissioning
F.	Condenser	185日	20/03/03 (火)	20/10/02 (金)	Condenser -
	Center line marking	2日	20/03/09(月)	20/03/10 (火)	Center line marking
XI.	Chipping	6日	20/03/11 (水)	20/03/17 (火)	Chipping
	Setting packer and base plate	4日	20/03/18 (水)	20/03/21 (土)	Setting packer and base plate
ġ.	Setting temporary rail and SARUFT for installation condenser	28日	20/03/11 (水)	20/04/10 (金)	Setting temporary rail and SARLIFT for installation condenser
	(Load test for SARLIFT)	1日	20/04/03 (金)	20/04/03 (金)	(Load test for SAFILIFT)
	Assembling the scafolding around skirt	15日	20/03/20 (金)	20/04/05(日)	Assembling the scafolding around sk/t

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

4. To consider the delay of H/O date from PDC 5. Add the schedule of the electric work and the replacement the gantry crane for CWP

	6364		Rill March	14-20	Construction Schedule of Unit-11
	タスク名	10000	開始日	終了日	2020年
136	Preparation the lifting tool for the skirt	2日	20/04/05(日)	20/04/06(月)	2020年 9年08月 2019年10月 2019年10月 2019年11月 2019年11月 2019年11月 2020年02月 2020年02月 2020年03月 2020年04月 2020年05月 2020年10月 2020年10月 2020年10月 2020年11月 2020年12月 2021年01月 2021年05月 2021年04月 2021年05月 2021年10月 2021年10日
137	[Civil]Excavate the access road	30日	20/03/03 (火)	tocherala sa oseniento	Preparation the lifting tool for the skirt IN
138	Assembly the Unit carrier	4日	20/04/03(金)	20/04/06 (月)	[Civil]Excavate the access road
139	Assembly the 750tonA/C	4日	20/04/03 (金)	20/04/06(月)	Assembly the Unit carrier
140 [Delivery date of condenser	2日	20/04/01 (水)	20/04/02 (木)	Assembly the 750tonA/C
141	Remove packing material	3日	20/04/04(土)	20/04/06(月)	Delivery date of condenser
142	Installation Upper skirt	2日	20/04/11 (土)	20/04/13(月)	Remove packing material
43	Installation Lower skirt	2日	20/04/14 (火)	20/04/15 (水)	
44	Fit up condenser skirt	3日	20/04/16 (木)	20/04/18(土)	
145	Assembling and welding skirt	8日	20/04/20(月)	20/04/28 (火)	
46	Remove rail for condenser skirt	1日	20/04/16 (木)	20/04/16 (木)	
47	Installation Condenser shell of lower	1日	20/04/17 (金)	20/04/17 (金)	
48	Installation Condenser shell of upper	1日	20/04/18 (土)	20/04/18 (土)	
49	Disassembly the 750tonA/C	1日	20/04/18 (土)	20/04/18 (土)	
50	Dismantling SARLIFT and temporary rail	15日	20/04/20 (月)	20/05/06 (水)	Disassembly the 75(tonA/C=
51	Assembling the scafolding around condenser shel	5日	20/04/27 (月)	20/05/01 (金)	
52	Welding Condenser shell (outside / 1 layer)	5日	20/05/02 (土)	20/05/07 (木)	
53	Fit up condenser skirt to condenser shell	3日	20/05/08 (金)	20/05/11 (月)	Fit up condenser skirt to condenser shell
54	Installation the monorail of South side	20日	20/05/12 (火)	20/06/03 (水)	
55 🔝	Hand over around condenser to civil working	30日	20/06/08(月)	20/07/11 (土)	
56	Installation the condenser water box of South side	7日	20/07/13 (月)	20/07/20(月)	listallation the condenser water box of South side
57	Installation the CW pipe	45日	20/07/21 (火)	20/09/10 (木)	
58	Assembling Exp.J	1日	20/09/21 (月)	20/09/21 (月)	Assembling Exp.J h
59	Welding Exp.J	10日	20/09/22(火)	20/10/02 (金)	Welding Exp. J
60					
	GT/ST/Generator	535日	20/06/02 (火)	22/02/15 (火)	GT/ST/Generator
62	Remove templates	14日	20/06/02 (火)		Remove templates
63	Center line marking	5日	20/06/18 (木)		Center line making
64	Chipping	10日	20/06/24 (水)		Chipping
35	Packer setting	15日	20/07/06(月)		Packer setting
56	Setting the base plate	7日	20/07/23 (木)		Setting the base plate 🎽
57	Setting the bearing case	7日	20/07/31(金)		Setting the bearing case 🎽
58 39	Lay down pipes under GT	1日	20/08/08(土)		Lay down pipes under GT
70	Lay down pipes under ST	3日	20/08/10(月)		Lay down pipes under ST 🚡
71	LPLP-MSV Lifting and setting	5日 1日	20/08/05 (水) 20/07/30 (木)		IP/LP-MSV Lifting and setting 🗮
12	Setting the Gantry system for GT	21日	20/08/03(月)		Lifting and hanging EB01 M
3	Load test for Gantry system	2日	20/08/27(木)		Setting the Gantry system for G7
14	GT 0/B (with Gantry)	2日	20/08/27(木) 20/09/01(火)		Load test for Gantry system 🖬
15	Setting the Gantry crane for GEN	1日	20/09/03 (木)		GT Q/B (with Gantry) 69/02
16	GEN O/B (with Gantry)	2日	20/09/03(木)		Setting the Gentry grame for GEN
7		2日	20/09/05(土)		GEN D/B (with Ganty) 🗸 09/04
8	Dismantling the Gantry system		20/09/08(火)		ST Lower basing 0/B (with 0HD) 🏅
19			20/10/01(木)		Dismantling the Gantry system
0			20/10/30(金)		Lifting and petting ST

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 Add the schedule of the electric work and the replacement the gantry crane for CWP

97.04	8	20150	開始日	將了日	Construction Schedule of Unit-11
	24.1	(14)(14)	10036111	1973 FI	
1 HP	P-MSV lifting and setting	5日	20/10/31(土)	20/11/05 (木)	2022年 9年08月 2019年10月 2019年11月 2019年11月 2019年11月 2019年11月 2029年05月 2020年03月 2020年03月 2020年05月 2020年10月 2020年10月 2020年10月 2020年10月 2021年05月 2021年10月 2021年11月 2021年11月 2022年11月 2022年 中旬下旬上旬中10日
Ass	sembly ST	51日	20/11/06 (金)	21/01/04(月)	HP-MSV fifting and setting
ST	Upper Casing	1日	20/12/29(火)	20/12/29 (火)	Assembly SP
Firs	st alignment of GT and GEN	25日	20/09/14(月)	20/10/12(月)	
GT	enclosure (Lower)	20日	20/10/31 (土)	20/11/23 (月)	Firs; alignment of GT and GEN
Ass	sembly piping around GT	120日	20/11/11(水)	21/03/30 (火)	(GT enclopung (Lewer)
Ass	sembly slipring of GEN	28日	20/11/11 (水)	20/12/12 (土)	Assembly piping around CT
5 Fina	al alignment	20日	21/01/05(火)	21/01/27 (水)	Assembly alipring of GEN
Ass	sembly 3S clutch	15日	21/01/28(木)	21/02/13(土)	Final digreenent
l Join	int coupling	10日	21/02/15(月)	21/02/25 (木)	Assembly 3S clutch
Inst	tallation GT enclosure	80日	20/12/19(土)	21/03/22(月)	Joint coupling 🥍
Inst	tallation ST enclosure	80日	21/02/26 (金)		Installation GT enclosure
	wing out	10日	21/11/10 (水)		Installation ST enclosure
_	move temporary strainer	20日	22/01/24(月)		Elowing out
-					Remove temporary strainer
GT Air	r inlet	394日	20/07/06(月)	21/10/08 (金)	
_	nter line marking	2日	20/08/13(木)		ST Air inlet 🖤
	tting the base plate	10日	20/08/15(土)		Center line marking M
Prea	assembly the Air inlet duct	60日	20/07/06(月)		Setting the base plate are plate
	ing and installation the Air inlet duct (Vertical)	25日	20/08/27 (木)		Pressembly the Air inlet duct I
	lding Air inlet duct (Vertical)	50日	20/09/08 (火)		Lifting and installation the Air inlet duct (Vertical)
	ing and installation the Air inlet filter	37日	20/10/07 (水)		Welding Air inlet duct (Vertical)
	lding Air inlet filter	70日	20/10/19(月)		Lifting and installation the Air Inlet Filter
	ing and assembly the Air inlet manifold	2日	20/11/06 (金)		Weiting Air injet Hiter
	ing and installation the Air inlet duct (Horizontal)	8日	20/11/09(月)	20/11/17 (火)	Lifting and essentially the Air inlet manifecter
	omatic roller shutter	2日	20/11/18 (水)		Lifting and installation the Air inlet duct (Horizonta) 🊈
	ding Air inlet duct (Horizontal)		20/11/18 (水)		Automatic roller shutter
	er element installation		21/10/02(±)	_	Welding Air inlet dust (Horizontal)
					Filter element installation 🗮
	ry Equipment (0/B)	353日?	20/04/28 (火)	21/06/12(+)	
183 :	around Power Train & North west of MSB	0	20/06/09 (火)		Auxiliary Equipment (Q/B) 🔍
	Chipping and pakker setting		20/06/09 (火)		
	12 cooler		20/07/31(金)		Chipping and pakker setting 🐙
	Patform under the GEN		20/08/03(月)		H2 cooler
	emp hanging Main Steam Piping		20/07/30(木)		Platform under the GEN 🎽
			20/11/03 (火)		Temp hanging Main Steam Piping Community
	ight oil drain unit		20/11/05(木)		Sampling Lack M
	T purge air compressor		20/11/07(土)		Light di drain unit Bh
	T purge are reservoir		20/11/10(火)		GT purgs air compressor
	ight oil flow divider unit & platform		20/11/12(木)		GT purze are reservoir 🕷
	T Purge air unit	22	20/11/12(木)		Light oll flow divider unit & platform)
	uel gas unit		20/11/12(木) 20/11/20(金)		GT Purge air unit#
ru		*H	23/11/20(五)	E9/11/21(I)	Fuel and unit Y
	SB Inside North-West	125日?	20/05/05 (火)	20/00/06/11	
Ch	hipping and pakker setting	10日	20/05/05 (火)	20/03/10(土)	Chipping and pakker setting

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Appendix J

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	タスク名	101/171	開始日	将了日	Construction Schedule of Unit-11
	T - Sant TL		10004.0	78.7.14	2020年 2021年
0	Preparation hauling equipment	4日	20/05/28(未)	20/06/02(火)	2020年 9年08月 2019年10月 2019年11月 2019年11月 2019年11月 2019年11月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2021年05月 2021年07月 2021年07日 2020年07月 2020年07日 2020年11月 2020年11月 2021年07日 2020年07日 2020年07日 2020年07日 2020年07日 2020年07日 2020年07日 2020年11月 2020年11月 2020年11月 2021年07日 2020年07日 2020年11月 2020年11月 2020年11月 2021年07日 2020年11日 2020年11日 2020年11日 2020年11日 2020年11日 2021年11日
	Condenser water box	3日		20/06/04 (木)	Preparation hauling equipment
	Closed cooling water pump	2日		20/06/06(土)	Condenser water box
-	Condenser vacuum pump	2日		20/06/09(火)	Closed cooling water pump
	Dismantling hauling equipment	2日		20/06/11(木)	Condenser vacuum pump
	ST blow down tank	1日		20/06/10 (7k)	Dismantling hauling equipment
-	ST Blow down tank structure	1日		20/06/11(木)	ST blow down tank
	GT casing cooling fan	1日		20/06/12(金)	ST Blow down tank structure b
	GT compressor blade washing device	1日		20/06/12(金)	GT casing cooling fan
648	Building MSB North strutture	40日			GT compressor blade washing device 🎽
			20/06/13(土)		Building MSB North strouture:
	Pre-assembly structure for Air inlet duct access	30日	20/08/01(土)		Pre-assembly structure for Air inlet dupt access, structure
	Building structure for Air inlet duct access	2日	20/09/25(金)		Building structure for Air inlet duct access 🖌
	Closed cooling water stand pipe	2日	20/09/25(金)		Closed boding water stand pipe
	ST Blowdown pit sump pump	2日	20/06/10 (水)	20/06/11(木)	ST Blowdown pit sump pump I
-	6 MSB Inside South-West	163日?	20/05/16(土)		
	Chipping and pakker setting	10日	20/05/16(土)		Chipping and pakker setting
	Condensate extraction pump	2日	20/06/15(月)	20/06/16(火)	Condensate extraction pump
	CEP access stair	1日	20/06/15(月)		CEP access stair I
*	Bullding MSB South strouture	25日	20/07/01 (水)	20/07/29 (水)	Building MSB South structure
6V3	Gland condenser	1日	20/07/07 (火)	20/07/07 (火)	Gland condenser>
*	Plant and Instrument air receiver	2日	20/07/27 (月)		Plant and Instrument air roceiver 14
	Trip valve unit	1日	20/09/28(月)	20/09/28(月)	Trip Yakya unitit
	Control oil unit	1日	20/09/28(月)	20/09/28(月)	Control cil unit T
	Seal oil unit	2日	20/07/31 (金)	20/08/01(土)	Seq1 oil unit 🎽
	Plant air compressor	2日	20/11/18 (水)	20/11/19 (木)	Plant air compressor b
	Instrument air dryer	2日	20/11/20 (金)	20/11/21(土)	Instrument av døyer
	CEP pit sump pump	2日	20/06/17 (水)	20/06/18(木)	CEP pit sump pump
	C <mark>ondenser hotwell pit sump pump</mark>	2日	20/06/19 (金)	20/06/20(土)	Condenzer hotwell pit sump pump
				~	
	7 Lube oil room	144日?	20/05/28 (木)	20/11/11 (水)	
	Chipping and pakker setting	10日	20/05/28 (木)	20/06/08(月)	Chipping and pakker setting
	Disassemble structure	1日	20/07/31 (金)	20/08/01 (土)	Disassemble dructure H
	Lube oil reservoir	1日	20/08/01 (土)	20/08/01(土)	Lube of reservoir 1
	Assemble sturcture	1日	20/08/01 (土)	20/08/01(土)	Assemble durcture)
	Open floor	1日	20/09/28 (月)	20/09/28(月)	
	Lube oil filter with sturcture	2日	20/09/29 (火)	20/09/30 (水)	Lube oil filter/with stureture
	Lube oil cooler	1日	20/09/29 (火)	20/09/29 (火)	
	JOP for GEN	2日	20/10/01 (木)	20/10/02 (金)	JOP for GEN T
	JOP for ST	2日	20/10/01 (木)	20/10/02 (金)	JOP for SET
	Lube oil purifier unit	2日	20/10/01 (木)	20/10/02 (金)	
	Lube oil transfer pump	2日	20/10/01 (木)	20/10/02 (金)	Lubbi dit punifer unit
	Lube oil accumulator	1日	20/10/01 (木)	20/10/01 (木)	Lube di transfér pungi
	Close floor	1日	20/10/02 (金)	20/10/02 (金)	
	TCA filter support	8日	20/11/02(月)	20/11/10 (火)	Close Boor

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10 4	スク名	10101	開始日	終了日	Construction Schedule of Unit-11			6-Ji
			and H	1.11	2020年 2020年 2021年 2020年11日 2010年11日 2010年11日 2020年1日 2020年11月 2020年11日 2020年11月 2020年11月 2020年11月 2020年11日 2020年11日 2020年11日 2020年11日 2020年11日 2020年11月 2			2022\$F
271	TCA filter	18	20/11/11 (水)	20/11/11 (水)	2020年 9年08月 2019年09月2019年10月 2019年11月 2019年12月 2020年01月 2020年02月2020年03月 2020年03月 2020年04月2020年05月 2020年05月 2020年06月 2020年08月 2020年08月 2020年09月2020年10月 2020年10月 2020年12月 2021年03月 2021年03月 2021年03月 2021年05月 2021年10月 2021年10月 2021年10月 2021年10月 2021年10月 2021年10月 2021年10月 2021年10月 2021年10月 2021	021年09月2021年10月207 ,何中旬下旬上旬中旬下旬上旬	21年11月2021年12月 中旬下旬上旬中旬下1	1 2022年01月 2022年 0上旬中旬下旬上旬中旬
272					TCA étter í			1414
273	9 East of MSB	142日?	20/04/28 (火)	20/10/09 (金)				
274	Chipping and pakker setting	15日	20/04/28 (火)	20/05/15 (金)			=	
275	Light Oil main pump unit	2日	20/05/15 (金)	20/05/16 (土)	Chipping and pakker setting			
276	GT light oil last chance filter	2日	20/05/15(金)	20/05/16 (土)	Light foll main pump unit 1			
277 📷	GT light oil drain tank unit	2日	20/06/01 (月)	20/06/02 (火)	GT light di last chance filter B. DT light oil drain tank unit B.			
278	Pipe rack from L10 to L11 (except around EB02)	45日	20/06/08(月)	20/07/29 (水)	Pipe rack from L10 to L11 (except around EB02)			n en tele
279	Temp hanging Main Steam Piping	15日	20/07/30 (木)	20/08/15 (土)	Temp hanging Main Steam Piping	1		
280 📖	Building structure for EB02	12日	20/07/10 (金)	20/07/24(金)	Building structure for EB02	11111		
281	Preassembly E802	52日	20/05/01 (金)	20/06/30 (火)	Prestcembly E802	1111年1月14日		
282	Lifting and installation EB02	2日	20/07/25 (土)	20/07/27 (月)	Lifting and installation EBQ22M			1.1.1.1.1.1
283	Sound proof around EB02	30日	20/07/28 (火)	20/08/31(月)	Sound proof around EB02			
284	Pipe rack from L10 to L11 (Above EB02)	30日	20/09/01 (火)	20/10/05(月)	Pipe rack from L[D] to L11 (Above EB02)			
285	GT enclosure ventilation fan	2日	20/10/06 (火)	20/10/07 (水)	GT enclosure ventilation fan K			
286	Oil mist separator unit	2日	20/10/08 (木)	20/10/09(金)				
287	Oily drain pit sump pump	4日	20/05/18(月)	20/05/21 (木)	Oily shain pit aunip pump 🚡			
288	Chemical drain pit sump pump	4日	20/05/22 (金)	20/05/26 (火)	Chemical drain pit: sump pump			1.13
289							111-	
	10 North of HRSG	216日?	20/05/06(水)	21/01/12 (火)		S 5 1 1 1		
291	HRSG Blow down tank	2日	20/05/06 (水)	20/05/07 (木)	HRSO-Blow down tank			
292	Chemical dosing system	2日	20/05/12(火)	20/05/13 (水)	Chemical dusing system			
293	GT water injection system		20/05/18(月)	20/05/19 (火)	GT water injection system	811111		
294	Lower Fuel gas heater		20/06/03 (水)		Lower Fuel gas heater 🖌	di 14 pri 17		
295	Support structure for FGH		20/06/05(金)		Support structure for FGH 📕	411111		
296	Upper Fuel gas Heater		20/06/20(土)		Upper Fuel gas Heater			
297	GT fuel gas flow meter		20/07/30 (木)		GT fuel gas flow meter#	811111		
298	FGH Maintenance platform FWP sun shade		20/07/30(木)		FGH Maintenance platform			
300	Reserved feed water tank		20/07/30(木)		FWP dun stade			
301 11	Feed water pump		20/06/30(火) 20/08/01(土)		Reserved feed water tank	4 1 1 4 1 7		
302	LP-ECO Recirculation pump		20/08/01(土)		Feed water pump 🔳			
303	Dry air system for HRSG		20/10/30(金)			i di bani		
304	HRSG Topping up pump		21/01/09(土)		Ory air system for HRSOM	11111.31		
305	HRSG blowdown pit sump pump		20/05/15(金)		HRSQ Topping up pump 🖬			
306	HRSG Washing water sump pump		21/01/11(月)		HRSG blowdown pit sump pump:	11111		
307				-	HRSG Washing water sump pump	1 1 1 2 1 3 1	1 2 2 1	
	2 CCW cooler area	87日	20/05/15(金)	0/08/24(月)				
309	Chipping and pakker setting		20/05/15(金) :					
310	Civil finish casting trench at west side of		20/06/30(火)		Chipping and pakker setting			
311	CCW-C area Sea water booster pump		20/07/01 (水)		Civil finish casting trench at west side of COW-C area In			
312			20/07/01 (7k)		Sea water booster pump 🕈			
313 📖	Condenser tube cleaning unit		20/07/01 (水) 2		CW vent pump and seal water booster 🎽			
314	CCW cooler		20/07/01 (7k) 2		Condenser tube cleaning unit 🖥	2		
	CCW cooler sun shade		20/08/01(土) 2		CCW coster 🖥			

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

4. To consider the delay of H/O date from PDC
 5. Add the schedule of the electric work and the replacement the gantry crane for CWP

	タスク名	10110	開始目	終了日	Construction Schedule of Unit-11	
			1000000	1000 Mag	2020年 2020年 2021年 2019年19月2019	
U	Sea water sump pump	4日	20/06/02 (火)	20/06/05 (金)	2022年 9年08月 2019年09月 2019年10月 2019年11月 2019年11月 2019年11月 2020年03月 2020年03月 2020年03月 2020年03月 2020年05月 2020年10月 2020年10月 2020年10月 2021年05月 2021年11月 2021年11月 2021年12月 2022年05月 2021年05月 2021年11月 2021年12月 2022年10月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年11月 2021年12月 2022年10月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年11月 2021年12月 2022年10月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年05月 2021年11月 2021年11日	引 201 间上有
					Sea water tump pump	
B 📖	TCA cooler	2日	20/10/28 (水)	20/10/30 (金)		
	Dismantle the temporary slope at south side of HRSG	20日	21/02/01 (月)	21/02/24 (水)	TCA dooler M	
0/	CO2 Fire fighting	50日	21/04/16 (金)	21/06/12(土)	Distmentie the temporary slope at south side of HRSO-IIIIIIII	
1	UTAC system	90日	21/03/01 (月)	21/06/12(土)	002 Fire fighting 1	
2	Silencer at MSB roof	3日	20/10/28 (水)	20/10/30 (金)	UTAC system	
3 📷	LPS to LMX LO transfer pump for U-11	2日	20/06/08(月)	20/06/09 (火)	Sildner 41 MSB roof/II	
4					LPS to LMX LO transfer pump for U=11	
5	Sea water intake area	52日	20/08/06 (木)	20/10/05(月)		
6	Marking center line	3日	20/08/06 (木)	20/08/10(月)	Sea waterijitake area 👻	11
7	Chipping and pakker setting	7日	20/08/10(月)	20/08/18(火)	Marking senter line	
8	Setting the baseplate	3日	20/08/18(火)	20/08/21(金)	Chipping and pakker setting	e.
9	Grouting	15日	20/08/21 (金)	20/09/08 (火)	Setting the baseplate ma	
0	Circulating water pump	10日	20/09/08 (火)	20/09/18(金)	Grouting	
d -	Circulating water pump outlet piping	2日	20/09/19(±)	20/09/21 (月)		
2	Auxiliary circulation water pump	2日	20/09/09 (水)	20/09/10 (木)	Circulating water pump with piping	
3	Electro chlorination plant	3日	20/10/01 (木)	20/10/03 (土)	Auxiliary circulation water pumpPt	
	Cathodic protection	1日	20/10/05(月)	20/10/05 (月)	Electro chlorination plant 9	
	Screen system	8日	20/09/22 (火)	20/09/30(水)	Cathoole protection	0
	Screen wash water pump	2日	20/09/11(金)	20/09/12(土)	Serben system 📷?	
5		2			Screen wash water pump a	11
1	Replacement of Gantry crane for CW pump	70日	20/11/11 (水)	21/01/30 (土)		
	Dismantling Old gantry crane	30日	20/11/11(水)	20/12/16 (水)		
	Assembling New gantry crane	30日	20/12/28(月)	21/01/30(土)	Disminiting Old gontry craine	67
					Assembling New gantry crane	
e l	11 Tranceformer area	183日	20/05/01(金) :	20/11/30(月)		
0	Preparation work in the area (If applicable)	53日	20/05/01(金) 2	20/07/02 (木)	11. Tranceformer area 🖤	
	Preparation the installation	25日	20/07/02(木) 2	20/07/30 (木)	Preparation work in the area (If applicable)	64
5	Preparation for Generator transformer	10日	20/08/19 (水) 2	20/08/31(月)	Preparation the installation of the second	
-	Generator tranceformer	3日	20/08/31(月) 2	20/09/02 (水)	Preparation for Generator transformer	11
n -	Unit tanceformer	1日	20/08/01(土) 2	20/08/01 (土)		
	SFC tranceformer	1日	20/08/03(月) 2	20/08/03(月)		
Č.	Excitation tranceformer	1日	20/08/04 (火) 2	20/08/04 (火)	SFC transeformer F.	
	Auxiliary tranceformer	18	20/08/05(水) 2	20/08/05 (水)	Excitation traceformer 1	
1	Trans area oily drain sump pump	2日	20/07/25(土) 2	20/07/27(月)	Auxiliary transformer (
	Transformer ancillaries	88日	20/08/20(木) 2	20/11/30(月)	Trains area oily drain sumpipump)	
5					Transformer angillaries. Transformer angillaries	11
1	Electrical work	465日?	20/05/07(木) 2	1/10/30(土)		
č.	Generator Ancillaries	110日	20/09/25(金) 2	1/01/30(±)		
-	Lifting IPB Bass & Suppoets	20日	20/10/08(木) 2	0/10/31(土)	Generator Arcillaries	
	IPB Bass & Supports	50日	20/10/31(土) 2	0/12/28(月)	Lifting IPBI Bass & Supports STATES	
	O/B GMCB	2日	20/08/29(土) 2	0/08/31(月)	HB Bass & Supports	
	IPB & GMCB (IN MSB 2F)	131日	20/09/01 (火) 2	1/01/30(土)	D/B GACB	
	SWGR & MCC (In MSB 1 - 3F)	79日	20/06/01(月) 2	0/09/21(日)	IPB & GMCB (IN MSB/27)	

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8

3	9 ス ク名	XHAN	開始目	終了日	Construction Schedule of Unit-11
		1000-0	100000	2.263.254	2022年 2021年 2021年
51	UPS, Battery & Battery Charger (in MSB 4F)	79日	20/08/01(土)	20/10/31(土)	2022年 9年08月 2019年09月2019年10月 2019年11月 2019年11月 2019年11月 2029年05月 2020年05月 2020年03月 2020年05月 2020年05月 2020年05月 2020年05月 2020年08月 2020年08月 2020年08月 2020年09月 2020年10月 2020年11月 2020年11月 2020年12月 2021年01月 2021年04月 2021年05月 2021年05月 2021年05月 2021年05月 2021年07月 2021年09月 2021年09月 2021年10月 2021年11月 2021年11月 2021年12月 2021年01月 2021年05月 2021年04月 2021年05月 2021年05月 2021年05月 2021年05月 2021年09月 2021年09月 2021年09月 2021年11月 2021年11月 2021年12月 2021年04月 2021年05月 2021年04月 2021年05月 2021年09月 2021年09月 2021年09月 2021年11月 2021年11月 2021年12月 2021年01月 2021年01月 2021年04月 2021年04月 2021年05月 2021年04月 2021年09月 2021年09月 2021年01月 2021年11月 2021年11月 2021年01月 2021年01月 2021年04月 2021年04日 2021年11月 2021年11月 2021年11月 2021年12月 2022年01日 中旬下旬上旬中11日
12	DCS & Others (in MSB 5F)	78日	20/09/01 (火)	20/11/30(月)	UPS, Battery & Battery Charger (in MSB 4F)
53 💼	AC/DC Busduct	105日	20/10/01 (木)	21/01/30(土)	DOS § Othera (in MSB 57)
54	HRSG Equipment	78日	20/08/01 (土)	20/10/30 (金)	AC/DC Bunduet
5 📖	Local panel (GT/ST TB, Local control box etc)	155日	20/10/01 (木)	21/03/30(火)	HRSQ Equipment
16	Local Instrument Enclosure	182日	20/10/01 (木)	21/04/30(金)	Local panel (GT/ST TB, Local control box etc)
7 📻	Cable Tray & Supports (Erectrical room of MSB)	165日	20/05/07 (木)	20/11/14 (土)	Local Instrument Enclosure
8	Cable Tray & Supports (MSB - HRSG)	98日	20/08/11(火)	20/12/02 (水)	Cable Tray & Supports (Erectrical room of MSB)
9	Cable Tray & Supports (HRSG)	105日	20/10/01 (木)	21/01/30(土)	Cable Tray & Supports (MSB - HFSG)
0 📖	Cable Tray & Supports (Chimney)	78日	20/11/02(月)	21/01/30(土)	Coble Tray & Supports (HRSG) Description of the Company
1	Exposed Cinduit (MSB)	130日	20/10/01 (木)	21/03/01(月)	Cabler Tray & Supports (Chimney)
2	Exposed Cinduit (HRSG)	103日	21/02/01(月)		Exposed Cinduit (MSB)
_		130日	21/02/01(月)		Exposed Cinduit (HRSG)-
		119日	20/08/15(土)		Exposed Cinduit (Ieland equipment)
		155日	20/11/02(月)		Cabling (for Power Receiving)
		132日	21/03/01(月)		Cabling (for MSB Local, to HRSQ)
		132日	21/03/01(月) 21/03/01(月)		Cabling (for HRSQ)
		365日			Cabling (for Island equipment)
1			20/09/01 (火)		Termination & Cable check
		339日	20/08/01(土)		Earthing System
		339日	20/09/01 (火)		Local Instrument
		262日	20/10/01 (木)		Instrument Pring & Tubing
	Instrument Calibration & Testing	365日	20/09/01 (火)	21/10/30(土)	Instrument, Calibration & Testing
3					
_		392日	20/08/10(月)		Picing 🐨
		244日	20/08/20 (木)		Mair Piping
		150日	20/11/17 (火)		Around HR\$Q
		222日	20/08/20 (木)		North side of MSB
	South side of MSB (around gland condenser)		20/09/15(火)		South side of MSB (around gland concenser)
		60日	20/11/06(金)	21/01/14(木)	Lead piping
		30日	21/04/17(土)	21/05/22(土)	Preparation Hydrostatic test
(ii)	Hydrostatic test (Gan't promise)	1日	21/05/31(月)	21/05/31(月)	% TDK challenge to move "hydro" up to 31at-May-2021 Hydrostatic test (Can't promise) ◆ 05/31
	BOP for lube oil and cooling	247日	20/08/10(月)	21/05/24(月)	BOP for lube oil jand cooling
-	North side of MSB (around CCW)	230日	20/08/10(月)	21/05/04 (火)	North side of MSB (ground CCW)
	South side of MSB (around Lube oil reservoir)	150日	20/11/20 (金)	21/05/13(木)	South side of MSB (around Lube oil reservoir)
5	Receiving Lube Oil	E	21/05/24(月)	21/05/24(月)	Receiving Lube OI9+ 05/24
	Others BOP	230日	20/12/11 (金)	21/09/04 (土)	Others BOP
E	Others BOP	230日	20/12/11 (金)	21/09/04(土)	Others B0P/
	Assembly the blowing out piping	日 06	21/08/09(月)	21/11/10 (水)	
					Assembly the blowing out piping
Gra	ane	日084	19/12/16 (月)	21/06/29(火)	Crane
,	Recombination of 500tonC/C 3	E	20/01/03 (金)	20/01/06(月)	Recombination of 500tonC/C 11
	Operate 500tonC/C (with JIB)	0日	20/01/07 (火)	20/01/17 (金)	
	Dismantling 500tonC/C	E	20/01/18(土)	20/01/22 (水)	Operate 500tonG//C (with JIB) 1
 /	Assembly 1250C/C	0日	20/02/14 (金)	20/02/25 (火)	Dismanting 500tonC/C 1
	Operate 1250tonC/C for HRSG 2	22日	20/02/26 (水) :	20/12/09 (7k)	Assembly 1250C/C

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Image: Second		92.08	101211	開始日	終了日
NumberNumbe					
New Work Source Market Sourc	Ð	Operate 1250tonC/C for GT Air Inlet	25日	20/08/27(太)	20/09/24 (太)
AnswingNomeNomeNomeNomeNameNom		Operate 1250tonC/C with additional C/W for inle			
interjetuj	-	Operate 1250C/C with additional C/W for tube	27日		
And MachineNormal	15	bundle			
Anomenous					
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Jame A A <td></td> <td></td> <td>2日</td> <td>20/12/07(月)</td> <td>20/12/08 (火)</td>			2日	20/12/07(月)	20/12/08 (火)
Number Number Number Number Anambia Mark Mark Ball Borkovita Borkovita Anambia Mark Mark Mark Mark Mark Mark Mark Mar		250ton A/C	400日	19/12/16(月)	21/03/27 (土)
BullSouth ofSouth ofSouth ofAueuk da mide SAUFT212001 (d)2004 (d)Aueuk da mide SAUFT212004 (d)2004 (d)Aueuk da sauth of SAUFT212004 (d)2004 (d)Denoming ta SAULT212004 (d)2004 (d)Aueuk da sauth of SAUFT212004 (d)2004 (d)<		200tonA/C	480日	19/12/16(月)	21/06/29 (火)
AutorBitStantingStantingAutorStantingStanti					
Aber96960960960960Anonly de BUE Par96960960Anonly de BUE ParAnonly de BUE Par10960960Anonly de BUE ParAnonly de BUE Par10960960960Anonly de Bue Par10960960960<	qui	pment for heavy lifting	190日	20/03/11 (水)	20/10/16(金)
Amendy be alfor SMUFT 21 300/01 (d) 300/01 (d) Amendy be alfor SMUFT 10 300/01 (d) 300/01 (d) Disarding to SAULT 10 300/01 (d) 300/01 (d) Disarding to SAULT 10 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/01 (d) 300/01 (d) 300/01 (d) Amendy de Gardy 10 300/01 (d) 300/		SARLIFT	50日	20/03/11 (水)	20/05/06 (水)
Assertive Shall.FF innya Rel Solution (R) Solution (Assembly the rail for SARLIFT	22日	20/03/11 (<i>7</i> k)	20/04/04 (土)
Image Image <th< td=""><td></td><td>Assembly the SARLIFT proper</td><td>8日</td><td>20/04/05(日)</td><td>20/04/13 (月)</td></th<>		Assembly the SARLIFT proper	8日	20/04/05(日)	20/04/13 (月)
Genty year4690/07/0090/07/0090/07/00Asendy the Genry Target for for source for the sou		Dismantling the SARLIFT	15日	20/04/20(月)	20/05/06 (水)
Assembly the Gamy for powertain 21 2000/03 (B) 2000/03 (B) Disessenbly the Gamy for powertain 15 2000/03 (B) 2000/03 (B) Disessenbly the Gamy for powertain 1700 2000/03 (B) 2000/03 (B) Version for transportation the Condensemination the Condenseminat	Ga	ntry system	46日	20/08/03(月)	20/09/24 (木)
Billing sampling this during Big 20/00/20 (k) 20/00/20 (k) Revenues Revenues Revenues Revenues Revenues Preparation for framsportation the Condenser Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues Revenues<		Assembly the Gantry for powertrain	21日	20/08/03(月)	20/08/26 (水)
Unit carrier1/102/03/27/202/01/10/20Preservation for transportation the Condenser2/102/02/27/202/02/27/20Transportation the Condenser2/102/02/27/202/02/27/20Transportation the Condenser1/102/02/27/202/02/27/20Transportation the Condenser1/102/02/27/202/02/27/20Transportation the Condenser1/102/02/27/202/02/27/20Transportation the Tube Bunder gard1/102/02/27/202/02/27/20Transportation the Tube Bunder gard1/102/02/27/202/02/27/20Transportation the Tube Bunder gard1/102/02/27/202/02/27/20Transportation the Tube Bunder gard1/102/02/27/202/02/27/20Transportation the Tube Bunder gard1/102/02/27/20Transportation the Tube Bunder gard1/102/02/27/20Transportation the Tube Bunder gard1/102/02/27/20Transportation the Tube Bunder gard1/102/02/20Transportation the Tube Bunder gard1/10Transportation the Tube Bunder gar		Disassembly the Gantry	15日	20/09/08 (火)	20/09/24 (木)
Pegaration for transportation the Condenser4 II20/03/2 (b)20/04/01 (c)Transportation the Condenser2020/04/01 (c)20/04/02 (c)Dissembling Unit carrier for Tube Bundle part1020/09/15 (c)20/09/15 (c)Transportation the Tube Bundle part1120/09/12 (c)20/09/12 (c)Dissembling Unit carrier for Tube Bundle part1220/09/12 (c)20/09/12 (c)Dissembling Unit carrier for Tube Bundle part1320/09/12 (c)20/09/12 (c)Transportation the Tube Bundle part1420/00/12 (c)20/00/12 (c)Dissembling Unit carrier for Tube Bundle part1320/00/12 (c)Transportation the Tube Bundle part1420/00/12 (c)Dissembling Unit carrier for Tube Bundle part1620/00/12 (c)Transportation the Tube Bundle part1620/00/12 (c)Dissembling Unit carrier for Tube Bundle part1620/00/12 (c)Dissembling Unit carrier for Tube Bundle part1620/00/12 (c)Transportation the Transformer1820/00/12 (c) <td></td> <td></td> <td></td> <td></td> <td></td>					
Preparation for transportation the Condenser I	Un	it carrier	176日	20/03/27 (金)	20/10/16 (金)
Transportation the Condense 2II 20/0/01 (k) 20/0/02 (k) Disassembling Unit carrier III 20/0/03 (k) 20/0/03 (k) Assembling Unit carrier for Tube Bunds III 20/0/01 (k) 20/0/16 (k) Transportation the Tube Bunds part III 20/0/02 (k) 20/0/21 (k) Sassembling Unit carrier III 20/0/22 (k) 20/0/22 (k) Assembling Unit carrier for Tube Bunds part III 20/0/22 (k) 20/0/22 (k) Assembling Unit carrier for Tube Bunds part III 20/0/22 (k) 20/0/22 (k) Transportation the Tube Bunds part III 20/0/22 (k) 20/0/22 (k) Transportation the Tube Bunds part III 20/0/22 (k) 20/0/22 (k) Sassembling Unit carrier for Tube Bunds part IIII 20/0/12 (k) 20/0/12 (k) Sassembling Unit carrier for Tube Bunds part IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Preparation for transportation the Condenser	4日	20/03/27(金)	20/04/01 (7K)
Disasembling Unit carrierII90/40/30 (9)90/40/30 (9)Assembling Unit carrier for Tube BundleII90/90/15 (9)90/90/15 (9)Transportation the Tube BundleII90/90/16 (9)90/90/16 (9)Transportation the Tube Bundle partsII90/90/16 (9)90/90/16 (9)Transportation the Tube Bundle partsII		Transportation the Condenser	2日	20/04/01 (水)	20/04/02 (木)
Assembling Unit carrier for Tube BundleII20/09/16 (x)20/09/16 (x)Transportation the Tube Bundle part15F20/09/22 (x)20/09/22 (x)Transportation the Tube Bundle part1Disassembling Unit carrier for Tube Bundle1F20/09/22 (x)20/09/22 (x)Disassembling Unit carrier for Tube BundleTransportation the Tube Bundle part21F20/10/00 (x)20/10/10 (x)20/10/10 (x)Disassembling Unit carrier for Tube Bundle1F20/10/10 (x)20/10/10 (x)Disassembling Unit carrier for Power Train1F20/10/10 (x)20/10/10 (x)Test operation for transportation of Power Train1F20/10/10 (x)20/10/10 (x)Transportation the Tansformer2F20/20/20 (x)20/20/20 (x)Transportation the Tansformer2F20/20/20 (x)20/20/20 (x)Transportation the Tansformer2F20/20/20 (x)20/20/20 (x)		Disassembling Unit carrier	1日	20/04/03 (金)	20/04/03 (金)
Transportation the Tube Bundle part1 5F 20/09/16 (%) 20/09/22 (%) Disassembling Unit carrier 16 20/09/22 (%) 20/09/22 (%) Assembling Unit carrier for Tube Bundle 16 20/10/06 (%) 20/10/10 (%) Transportation the Tube Bundle part2 6 20/10/16 (%) 20/10/16 (%) Disassembling Unit carrier for Tube Bundle part2 16 20/10/16 (%) 20/10/16 (%) Disassembling Unit carrier for Power Train 16 20/10/16 (%) 20/10/16 (%) Assembling Unit carrier for Power Train 16 20/08/25 (%) 20/08/25 (%) Transportation the Transportation of Power 17 20/08/25 (%) 20/08/25 (%) Transportation the Transportation of Power Train 21 20/08/25 (%) 20/08/25 (%) Transportation the Transportation of Power Train 21 20/08/21 (%) 20/08/25 (%) Transportation the Transportation of Power Train 21 20/08/21 (%) 20/08/25 (%) Transportation the Transportation of Power Train Transportation of Power Train Transportation of Power Train Transportation the Gas Turbine Proper 21 20/09/20 (%) 2		Assembling Unit carrier for Tube Bundle	1日	20/09/15 (火)	20/09/16 (水)
Disseembling Unit carrierIB20/09/22 (X)20/09/22 (X)20/09/22 (X)Assembling Unit carrier for Tube BundeIB20/10/03 (M)20/10/104 (M)Transportation the Tube Bunde part 2SB20/10/104 (M)20/10/104 (M)Disseembling Unit carrier for Tube BundeIB20/10/104 (M)20/10/104 (M)Disseembling Unit carrier for Tube BundeIB20/10/104 (M)20/10/104 (M)Assembling Unit carrier for Power TrainIB20/00/21 (M)20/00/21 (M)Test operation for transportation of PowerIB20/00/21 (M)20/00/21 (M)Transportation the Tube BundeIB20/00/21 (M)20/00/21 (M)Transportation the Tube BundeIB20/00/21 (M)20/00/21 (M)Transportation the Tube BundeIB20/00/21 (M)20/00/22 (M)Transportation the Tube BundeIB20/00/21 (M)20/00/22 (M)Transportation the Tube BundeIB20/00/22 (M)20/00/22 (M)Transportation the Gas Tubine Bransportation the Tube BundeIBIBTransportation the Gas Tubine Bransportation the Tube BundeIBTube Bunde20/00/22 (M)20/00/22 (M)IBTube Bunde20/00/22 (M)20/00/22 (M)Tube Bu		Transportation the Tube Bundle part1	5日	20/09/16 (7k)	20/09/21 (月)
Assembling Unit carrier for Tube BundleI B20/10/19(2b)20/10/19(2b)Transportation the Tube Bundle part 2520/10/19(2b)20/10/15 (2b)Disassembling Unit carrier for Tube Bundle for Tube Bundle for Tube Bundle part 2Transportation the Tube Bundle part 2Disassembling Unit carrier for Power Train320/08/25 (2b)Assembling Unit carrier for Power Train120/08/25 (2b)Test operation for transportation of Power120/08/25 (2b)Transportation the Transportation of Power220/08/25 (2b)Transportation the Gas Turbine Proper220/09/01 (2b)Turbine Proper222Turbine Proper22Turbine Proper22Turb		Disassembling Unit carrier	1日	20/09/22 (火)	20/09/22 (火)
Transportation the Tube Bundle part 25I20/10/10 (±)20/10/15 (±)Disassembling Unit carrier1G20/10/16 (±)20/10/16 (±)Disassembling Unit carrier1G20/08/25 (±)20/08/25 (±)Assembling Unit carrier1G20/08/25 (±)20/08/25 (±)Test operation for transportation of Power1G20/08/25 (±)20/08/25 (±)Transportation the Transportation of Power1G20/08/25 (±)20/08/25 (±)Transportation the Transportation of Power20/08/31 (±)20/09/01 (±)Transportation the Gas Turbine Proper2B20/09/01 (±)2B20/09/10 (±)20/09/02 (±)		Assembling Unit carrier for Tube Bundle	1日		
Disassembling Unit carrier1B20/10/16 (2b)20/10/16 (2b)Assembling Unit carrier for Power Train3B20/08/21 (2b)20/08/25 (2b)Test operation for transportation of Power1B20/08/25 (2b)20/08/25 (2b)Transportation the Transformer2B20/08/31 (B)20/09/01 (2b)Transportation the Gas Turbine Proper2B20/09/01 (2b)20/09/02 (2b)					
Assembling Unit carrier for Power Train 3F 20/08/21 (\$\oveetyrefysion 20/08/25 (\$\veetyrefysion Test operation for transportation of Power 1F 20/08/25 (\$\veetyrefysion 20/08/25 (\$\veetyrefysion Assembling Unit carrier for Power Train Test operation for transportation of Power Train Transportation the Gas Turbline Proper 2F 20/09/01 (\$\veetyrefyre 20/09/02 (\$\veetyrefyre Transportation the Transformer Test operation for transportation the Transforme					
Test operation for transportation of Power 1 fl 20/08/25 (k) 20/08/25 (k) Transportation the Transformer 2 fl 20/08/31 (fl) 20/09/01 (k) Transportation the Gas Turbine Proper 2 fl 20/09/01 (k) 20/09/02 (k)					
Transportation the Gas Turbine Proper 2月 20/09/01 (火) 20/09/02 (水)					
Transportation the Gas Turbine Proper 2日 20/09/01 (火) 20/09/02 (水)		Irain			
Transportation the Generator 2日 20/09/03 (木) 20/09/04 (金) Disassembling the Unit carrier 1日 20/09/05 (土) 20/09/05 (土)					

1. Change the starting date of installation below

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

4. To consider the delay of H/O date from PDC 5. Add the schedule of the electric work and the replacement the gantry crane for CWP

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Name Y DATES & MILESTONES	Duration 1123 days	Start Fri 4/12/20	Finish Sun 31/12/23	Jan Feb Mar
ontract Period eferred Work Completion Key Dates	1123 days 784 days	Fri 4/12/20 Mon 8/11/21	Sun 31/12/23 Sun 31/12/23	
ubstantial Completion of the Whole Contract Works (1123 Days) E POSSESSION DATES The Possession Date as phased site possesion plan and PS1.4.2	0 days 513 days 0 days	Sun 31/12/23 Fri 4/12/20 Fri 4/12/20	Sun 31/12/23 Sun 1/5/22 Fri 4/12/20	
te Possession Date as phased site possession plan and PS1.4.2 te Possession Date as phased site possession plan and PS1.4.2	0 days 0 days 0 days	Fri 1/1/21 Sat 1/5/21	Fri 1/1/21 Sat 1/5/21	
ite Possession Date as phased site possession plan and PS1.4.2 ite Possession Date as phased site possesion plan and PS1.4.2	0 days 0 days	Fri 1/10/21 Fri 1/4/22	Fri 1/10/21 Fri 1/4/22	
ite Possession Date as phased site possesion plan and PS1.4.2 MPLETION DATES as per PS1.4.2 Time for Completion	0 days 537 days	Sun 1/5/22 Thu 30/9/21	Sun 1/5/22 Tue 21/3/23	
ection A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & 2	0 days	Thu 30/9/21	Thu 30/9/21	
ection A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except e roof deferred works	0 days	Mon 1/11/21	Mon 1/11/21	structure except the roof deferred works
action A2 (i) External Works including CW Inlet Culvert at Area F8A action A2 (ii) External Works including CW Intet Culvert at Area F8B action A2 (iii) External Works including CW Inlet Culvert at Area F8C	0 days 0 days 0 days	Mon 10/1/22 Thu 31/3/22 Fri 11/3/22	Mon 10/1/22 Thu 31/3/22 Fri 11/3/22	Section A2 (i) External works including CW linet Culvert at Area PoA
ection B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3 ection B1 - Streas south of L12 MSB from GL12-F westwards leading to Station Road at Area F3 ection B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no	0 days 0 days 0 days	Wed 15/12/21 Thu 30/9/21	Wed 15/12/21 Thu 30/9/21	f L12 MSB from GL 2-F westwards leading to Station Road at Area F3
solution by the second state of the second sta	0 days	Mon 15/11/21	Mon 15/11/21	ng at Area F6A and F6C
ection B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment undations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil	0 days	Mon 28/2/22	Mon 28/2/22	odSection B2 - (iii) L12 Turbo Block foundatio
servoir sction B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations stween GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser	0 days	Wed 15/12/21	Wed 15/12/21	2 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the insta
ection C = (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern east mentioned above in Area F5	0 days	Sat 15/1/22	Sat 15/1/22	Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern
action C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all iderground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works	0 days	Thu 31/3/22	Thu 31/3/22	
ection C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB action D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and	0 days 0 days	Sun 10/4/22 Fri 10/6/22	Sun 10/4/22 Fri 10/6/22	
tenna action D (ii) - No. 5 Chimney with L12 Steel Flue liner	0 days	Tue 21/3/23	Tue 21/3/23	
action E (i) Tx Room of Adminintration and Control Building action E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building action E (iii) - Whole of Admin. And Control Building	0 days 0 days	Sun 31/10/21 Mon 28/2/22 Tue 31/5/22	Sun 31/10/21 Mon 28/2/22 Tue 31/5/22	♦ Section E (ii) • G/F,1/F, 2/F & Hoisting Well of
ection F (iii) - whole of Admin. And Control Building ection F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area 4	0 days 0 days	Wed 30/11/22	Wed 30/11/22	
4 etion F (iii) - Pipe and Cable rack and external work at Area F9A and F9B ection F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	0 days 0 days	Tue 31/5/22 Wed 31/8/22	Tue 31/5/22 Wed 31/8/22	
ection G (i) - External Work surrounding Area F11 ection G (ii) - External Works at Area F12 & F13	0 days 0 days 0 days	Wed 26/10/22 Fri 30/9/22	Wed 26/10/22 Fri 30/9/22	
ection G (iii) - FS Modification works along South Seafront Road at Area F15 ection G (iv) - 275kV cable trenches and External Works at Area F16	0 days 0 days	Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22	
ection G (v) - Shunt Reactor Compound and External Works at Area F17 ection G (vi) - 275kV cable trenches and External Works at Area F18	0 days 0 days	Fri 30/9/22 Wed 1/6/22	Fri 30/9/22 Wed 1/6/22	
sction G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A sction G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B sction G (vi) - Bund wall medifection under at Scutte Source to Area to Area F21	0 days 0 days	Sun 8/5/22 Fri 30/9/22 Fri 15/10/21	Sun 8/5/22 Fri 30/9/22	
citon G (ix) - Bund wall modification works at South Seafront Road at Area F21 betion 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 0 days	Fri 15/10/21 Sat 31/12/22 Tue 28/2/23	Fri 15/10/21 Sat 31/12/22 Tue 28/2/23	
action H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days	Fri 4/12/20	Mon 19/7/21	
Ist Mobilization ty Demogramy Site Office and Welfare Factiliites	18 days 90 days	Fri 4/12/20 Fri 4/12/20 Tue 22/12/20	Mon 21/12/20 Sun 21/3/21	
isting Utilities scanning & Excavation Permit	120 days 45 days	Mon 22/3/21 Tue 22/12/20	Mon 19/7/21 Thu 4/2/21	
wer Crane erections	60 days 314 days	Sun 27/12/20 Thu 10/12/20	Wed 24/2/21 Wed 20/10/21	
) Approval & Consent (If required) Ibmission and Approval of Master Programme	0 days 14 days	Thu 10/12/20 Fri 11/12/20	Thu 10/12/20 Thu 24/12/20	
ork Execuation Overal Plan submission & approval aterial Submissions and approval	14 days 300 days	Fri 11/12/20 Fri 25/12/20	Thu 24/12/20 Wed 20/10/21	
thod Statement submission and approval M Model, CSD & CBWD Submission & approval	300 days 120 days	Fri 25/12/20 Fri 25/12/20	Wed 20/10/21 Fri 23/4/21	
ucture Steelwork Connection Design Submission & BD approval ucture Steelwork Shop Drawing & Approval	45 days 30 days	Tue 29/12/20 Fri 12/2/21	Thu 11/2/21 Sat 13/3/21	
tal Cladding, louvre & windows submission & BD approval tal Cladding, louvre & windows shop drawing submission der, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	45 days 45 days 120 days	Tue 29/12/20 Fri 12/2/21 Mon 29/3/21	Thu 11/2/21 Sun 28/3/21 Mon 26/7/21	
S Submission and BD approval .5 Chinney windshield temporary work submission, approval & fabrication	90 days 60 days	Fri 11/12/20 Fri 11/12/20	Wed 10/3/21 Mon 8/2/21	
el Flue Assessment Report and Design Drawings submission & approval volding Shutters Shop Drawing Submission & Approval	60 days 30 days	Tue 9/2/21 Thu 11/2/21	Fri 9/4/21 Fri 12/3/21	
abrication & Delivery of Folding Shutters ewage Pump System Design submission & approval	180 days 45 days	Sat 13/3/21 Tue 23/2/21	Wed 8/9/21 Thu 8/4/21	
abrication & Delivery of Sewage Pump ther material submission & approval & delivery ther material submission & approval & delivery	180 days 180 days 180 days	Fri 9/4/21 Sat 24/4/21 Sat 24/4/21	Tue 5/10/21 Wed 20/10/21 Wed 20/10/21	
NSTRUCTION oordination with the Employer's Specialist Contractors	1123 days 562 days	Fri 4/12/20 Fri 15/1/21	Sun 31/12/23 Sat 30/7/22	K
Installation of Puddle Pipes at C.W. outlet Culvert Installation of Puddle Pipes at C.W. Inlet Culvert	7 days 7 days	Mon 22/3/21 Thu 27/5/21	Sun 28/3/21 Wed 2/6/21	
Template setting at L12 Turbo Block Foundation Template setting of holding down bolts at HRSG column base	45 days 45 days	Tue 16/11/21 Fri 15/1/21	Thu 30/12/21 Sun 28/2/21	remplate setting at L12 Turbo Block Foundation
I-beam / channel base installation on top of transformer foundations at Transformer Area Overhead crane erection at turbine hall using access through a temporary opening at L12 MSB roof between GL12-G	45 days 38 days	Tue 1/6/21 Mon 1/11/21	Thu 15/7/21 Wed 8/12/21	Il using access through a temporary opening at L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6
to 12-H and 12-2 to 12-6 Condenser assembly and erection using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C including a clear space below 1/F between GL 12-B to 12-C	122 days	Thu 16/12/21	Sat 16/4/22	
Installation of power train equipment including air inlet duct using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-F to 12-H including a clear space below 1/F of the above area	121 days	Fri 1/4/22	Sat 30/7/22	
Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21	
ection A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney	301 days	Fri 4/12/20	Thu 30/9/21	
pad at Area F1 & F2				
Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area)	60 days 14 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe Backfill	60 days 14 days 70 days 7 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 15/6/21 Tue 24/8/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 23/8/21 Mon 30/8/21	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) nstallation CW Inlet Culvert pipe Backfill Construction UG Utilities 2m deep below further surface Femporary Paving and handover for plant erection	60 days 14 days 70 days 7 days 21 days 3 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 15/6/21 Tue 24/8/21 Tue 31/8/21 Tue 28/9/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 30/8/21 Mon 30/8/21 Mon 27/9/21 Thu 30/9/21	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe Backfill Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof ructure except the roof deferred workss	60 days 14 days 70 days 7 days 21 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 15/6/21 Tue 24/8/21 Tue 31/8/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 23/8/21 Mon 30/8/21 Mon 27/9/21	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe Backfill Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof Area Possession & Clearance Subletting / Fabrication / Delivery Complete structure asteel erection	60 days 14 days 70 days 7 days 21 days 3 days 333 days 45 days 210 days 0 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 24/8/21 Tue 24/8/21 Tue 28/9/21 Fri 4/12/20 Fri 4/12/20 Tue 23/2/21 Tue 19/10/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 23/8/21 Mon 23/8/21 Thu 30/9/21 Mon 1/11/21 Sun 17/1/21 Mon 20/9/21 Tue 19/10/21	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) nstallation CW Inlet Culvert pipe Backfill Construction UG Utilities 2m deep below further surface Femporary Paving and handover for plant erection ction A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof ucture except the roof deferred workss Area Possession & Clearance Subletting / Fabrication / Delivery Complete structural steel erection install Crane Girders Construction of roof slab (except defer work)	60 days 14 days 70 days 7 days 3 days 333 days 45 days 210 days 0 days 11 days 14 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 24/8/21 Tue 31/8/21 Tue 31/8/21 Fri 4/12/20 Fri 4/12/20 Tue 23/2/21 Tue 19/10/21 Tue 12/10/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 30/8/21 Mon 30/8/21 Thu 30/9/21 Mon 1/11/21 Sun 17/1/21 Mon 20/9/21 Tue 19/10/21 Fri 29/10/21 Mon 1/11/21	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe Backfill Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection sction A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof ructure except the roof deferred workss Area Possession & Clearance Subletting / Fabrication / Delivery Complete structural steel erection Install Crane Girders Construction of roof slab (except defer work) Touch up and handover for install overhead cranes Sub External Works including CW Inlet Culvert at Area F8A	60 days 14 days 70 days 7 days 21 days 3 days 333 days 45 days 210 days 0 days 11 days 11 days 14 days 3 days 403 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 1/6/21 Tue 24/8/21 Tue 28/9/21 Fri 4/12/20 Fri 4/12/20 Tue 23/2/21 Tue 12/10/21 Tue 12/10/21 Tue 12/10/21 Sat 30/10/21 Fri 4/12/20	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 23/8/21 Mon 30/8/21 Thu 30/9/21 Mon 1/11/21 Sun 17/1/21 Mon 20/9/21 Tru 19/10/21 Fri 29/10/21 Mon 1/11/21 Mon 10/1/22	•B100 - 0 Jan '22
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection Ction A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof Cucture except the roof deferred workss Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F8A-F8B)	60 days 14 days 70 days 7 days 21 days 3 days 333 days 45 days 210 days 0 days 11 days 3 days 403 days 30 days 30 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 24/8/21 Tue 24/8/21 Tue 24/8/21 Fri 4/12/20 Fri 4/12/20 Tue 23/2/21 Tue 19/10/21 Tue 12/10/21 Tue 12/10/21 Sat 30/10/21 Fri 4/12/20 Fri 4/12/20 Fri 4/12/20	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 23/8/21 Mon 23/8/21 Mon 27/9/21 Thu 30/9/21 Mon 1/11/21 Mon 20/9/21 Tue 19/10/21 Fri 29/10/21 Mon 1/11/21 Mon 1/11/21 Sat 2/1/21 Sat 2/1/21 Sat 16/1/21	•B10)
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2) Excavation for CW Inlet Culvert Type D Construction Area) Installation CW Inlet Culvert type D Construction Area) Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection Suction A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof ructure except the roof deferred workss Area Possession & Clearance Subletting / Fabrication / Delivery Complete structural stele erection Install Crane Girders Donstruction of roof slab (except defer work) Touch up and handover for install overhead cranes Subletting / Fabrication / Delivery (both for Area F8A-F8B) Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F8A-F8B)	60 days 14 days 70 days 7 days 3 days 333 days 45 days 210 days 0 days 11 days 14 days 3 days 3 days 30 days 30 days 30 days 14 days 55 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21 Tue 24/8/21 Tue 31/8/21 Tue 28/9/21 Fri 4/12/20 Fri 4/12/20 Fri 4/12/20 Fri 4/12/20 Fri 4/12/20 Fri 4/12/20 Fri 8/12/20 Sat 2/1/21 Sat 16/1/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21 Mon 23/8/21 Mon 23/8/21 Thu 30/9/21 Mon 1/11/21 Sun 17/1/21 Tue 19/10/21 Tue 19/10/21 Mon 1/11/21 Mon 1/11/21 Mon 1/11/21 Sat 16/1/21 Fri 15/1/21 Thu 11/3/21	CB1(i) 0 Jan '22
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isk	Name	Duration	Start	Finish	Jan Feb Mar
	Excavation & Construct Pile Caps & Tie Beams & Piers Installation of Pipe Pile for HRSG foundation (VO)	86 days 48 days	Mon 8/3/21 Thu 25/3/21	Thu 19/8/21 Tue 11/5/21	Yeo Mar
	Construction HRSG & Gas Duct foundations Construction of HRSG Equipment Room incl. ABWF & BS (except T&C)	112 days 64 days	Fri 7/5/21 Tue 4/5/21	Fri 3/9/21 Thu 30/9/21	
	Construction underground utilities within HRSG Backfill & Construction on-grade slabs & RC plinths on top	55 days 14 days	Mon 19/7/21 Fri 30/7/21	Sat 11/9/21 Mon 27/9/21	
	Backfill and Temporary paving action 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	Thu 30/9/21 Mon 15/11/21	
	Area Possessiong and Clearance at Area F6A	30 days	Fri 1/1/21	Sat 30/1/21	
	Subletting / Fabrication / Delivery (for Area F6A and F6C civil) Construction of Underground pits (HRSG Blowdown sump pit)	90 days 110 days	Sat 2/1/21 Sat 2/1/21	Thu 1/4/21 Wed 21/4/21	
	Excavation & Construct Pile Caps & Tie Beams & Piers Construction underground utilities within HRSG	139 days 55 days	Mon 1/2/21 Mon 19/7/21	Sat 10/7/21 Sat 11/9/21	
	Construction of Underground pits (GT Oil & Chemical drain pits) Backfill & Construction on-grade slabs & RC plinths on top	15 days 45 days	Thu 5/8/21 Sun 12/9/21	Thu 19/8/21 Tue 26/10/21	
	Construct RC Walls Construction of Underground utilities at F6C	90 days 21 days	Thu 22/4/21 Tue 19/10/21	Tue 20/7/21 Mon 8/11/21	
S	Backfill and Temporary paving action 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	Mon 15/11/21 Mon 28/2/22	c.C2(ii)
g	uipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power enerator, air inlet duct and lube oil reservoir				
	Area Possession & Clearance Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12)	45 days 150 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Sun 23/5/21	
	Complete excavation at Type A&C Construction Area Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	0 days 75 days	Sun 21/3/21 Sun 31/1/21	Sun 21/3/21 Thu 15/4/21	
	Backfill and construction turbine block & equipment foundation Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	85 days 45 days	Tue 1/6/21 Sat 17/4/21	Tue 24/8/21 Mon 31/5/21	
	Construction of internal drainage & on-grade slab Construction turbine block columns and upper portion for plant embed installation Concrete Turbine upper part foundation	90 days 83 days 15 days	Wed 1/9/21 Wed 25/8/21 Fri 31/12/21	Mon 29/11/21 Mon 15/11/21 Fri 14/1/22	lationConcrete Turbine upper part foundation
	Construction of Lube Oil Room Concrete RC walls	14 days 115 days	Tue 30/11/21 Tue 7/9/21	Fri 28/1/22 Thu 30/12/21	Concrete RC walls
	ABFW Works Building Services Works	60 days 45 days	Thu 4/11/21 Sat 15/1/22	Sun 2/1/22 Mon 28/2/22	ABFW Works
	Remove temporary falsework and scaffolding for installation of power generator ection B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and	13 days 377 days	Mon 7/2/22 Fri 4/12/20	Sat 19/2/22 Wed 15/12/21	Remove temporary falsework and scaffolding for installat
e	upment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser				
	Area Possession & Clearance Subletting / Fabrication / Delivery (for MSB L12 civil)	45 days 150 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Sun 23/5/21	
	Excavation to foundation level at ELS SP Type A & C Install CW Outlet pipe	80 days 85 days	Fri 1/1/21 Mon 22/3/21	Sun 21/3/21 Mon 14/6/21	
	Construction of CW Outlet Box + lowest tie beam & caps Construction of pile caps & tie beams & sump pits up to +2.7mPD	40 days 26 days	Mon 22/3/21 Sat 1/5/21	Fri 30/4/21 Wed 26/5/21	
	Backfill & Construction of CW Inlet Box + tie beams Construction of pile caps & tie beams at SunShadeCover Area	71 days 45 days	Thu 27/5/21 Tue 15/6/21	Thu 5/8/21 Thu 29/7/21	
	Backfill and Construction ground beams & trenches Construction of indoor underground drainage	28 days 14 days	Thu 27/5/21 Fri 13/8/21	Mon 5/7/21 Thu 26/8/21	
	Backfill & construction on-grade slabs Construction Column casting and RC walls & equipment foundations	60 days 50 days	Sun 1/8/21 Thu 30/9/21	Wed 29/9/21 Thu 18/11/21	
	ABFW Works Building Services Works Mic. Works and Pagety for condensor mayo in	15 days 20 days	Fri 19/11/21 Fri 26/11/21	Fri 3/12/21 Wed 15/12/21 Wed 15/12/21	condenser move in
S	Mis. Works and Ready for condenser move in sction C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the where A sectors reactions mathematical above in Area E5.	25 days 408 days	Wed 17/11/21 Fri 4/12/20	Wed 15/12/21 Sat 15/1/22	condenser move in c.D()5 Jan '22
	Juthern & eastern areas mentioned above in Area F5 Area Possession & Clearance Subletting / Fabrication / Delivery	30 days 210 days	Fri 4/12/20 Fri 25/12/20	Sat 2/1/21 Thu 22/7/21	
	Complete substructure & Steel Erection works for MSB Construction all utilities deeper than 2m from future road level	0 days 30 days	Tue 17/8/21 Wed 18/8/21	Tue 17/8/21 Thu 16/9/21	
	Construction of cable trenches Backfill and lay temporary paving	30 days 91 days	Fri 17/9/21 Sun 17/10/21	Sat 16/10/21 Sat 15/1/22	Backfill and lay temporary paving
S	ection C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB ith all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred	483 days	Fri 4/12/20	Thu 31/3/22	
w	orks Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
	Subletting / Fabrication / Delivery Construction of pile caps & tie beams at Transformer Area	120 days 180 days	Fri 25/12/20 Sun 31/1/21	Fri 23/4/21 Thu 29/7/21	
	Backfill and on-grade slab at transformer Area Construction of Fire Walls at Transformer Area	160 days 45 days	Sun 11/4/21 Fri 8/10/21	Thu 7/10/21 Sun 21/11/21	
	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	Tue 31/8/21 Fri 11/6/21	
	Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B) Structural Delivery & Erection (Equipment Floors)	67 days 33 days	Sat 12/6/21 Wed 18/8/21	Tue 17/8/21 Sun 19/9/21	
	Structural Delivery & Erection (Turbine Hall South + East Elevation) Joint Tightening and touch up coating	47 days 99 days	Mon 20/9/21 Sat 3/7/21	Mon 15/11/21 Wed 24/11/21	
	External Scaffolding Erection Construction 1/F RC Slab	97 days 14 days	Thu 15/7/21 Mon 20/9/21	Mon 22/11/21 Sun 3/10/21	
	Construction 2/F RC Slab	7 days 18 days	Mon 27/9/21 Thu 30/9/21	Sun 10/10/21 Sun 17/10/21	
	Construction 4/F RC Slab Construction 5/F RC Slab Construction 6/F RC Slab	7 days 44 days	Thu 7/10/21 Mon 25/10/21 Wed 1/12/21	Sun 24/10/21 Tue 7/12/21 Tue 14/12/21	
	Construction Upper Roof RC Slab Construction Main Roof RC Slab	14 days 10 days 39 days	Sun 12/12/21 Tue 12/10/21	Fri 24/12/21 Fri 19/11/21	on Upper Roof RC Slab
	Construction Defer Roof RC Slab (G.L. G-H) Construction of Staircase ST-01 & lift shaft & machine room	14 days 130 days	Wed 1/12/21 Fri 27/8/21	Tue 14/12/21 Mon 3/1/22	Slab (G.L. G-H) Construction of Staircase ST-01 & lift shaft & machine room
	Construction M/F RC Slab	14 days 60 days	Wed 1/9/21 Tue 4/1/22	Tue 14/9/21 Fri 4/3/22	-Lift Installation
	Construction of Staircase ST-02 except defer work Construction of RC plinth, kerbs & parapet Walls	68 days 40 days	Mon 11/10/21 Sat 20/11/21	Fri 24/12/21 Wed 29/12/21	on of Staircase ST-02 except defer work Instruction of RC plinth, kerbs & parapet Walls
	Erection of Skylight & Roof Features Waterproofing & Flooring at Roof	50 days 34 days	Fri 26/11/21 Thu 30/12/21	Fri 14/1/22 Thu 17/2/22	Erection of Skylight & Roof Features Waterproofing & Flooring at Roof
	ABFW Works Building Services Works	100 days 105 days	Fri 8/10/21 Tue 16/11/21	Sat 15/1/22 Mon 28/2/22	ABFW Works Building Services Works
	Metal Cladding, Windows and Louvres incl. roof feature Removal of external scaffolding	185 days 90 days	Mon 23/8/21 Wed 1/12/21	Wed 23/2/22 Mon 28/2/22	Metal Gladding, Windows and Louvres Incl. roof fe Removal of external scaffolding
	Installation of Catwalk at south elevation Cladding, ABWF & BS Works	26 days 30 days	Mon 31/1/22 Wed 2/3/22	Tue 1/3/22 Thu 31/3/22	Installation of Catwalk at south elevation
	Removal of tempoary works & clearance for plant erection contractor ection C - (iii) Link Bridge between L11 and L12 MSB includin their associated A&A at L11 MSB	30 days 493 days	Sun 30/1/22 Fri 4/12/20	Mon 28/2/22 Sun 10/4/22	C.D(IV)
	BD Consent	0 days	Fri 4/12/20	Fri 4/12/20	
	Subletting / Fabrication / Delivery (For BS and ABWF) Clearing Works and plant set-up	250 days 30 days	Fri 25/12/20 Fri 3/12/21	Tue 31/8/21 Sat 1/1/22	Clearing Works and plant set-up
	Dismantle of north scaffold for link bridge erection A&A works at South of L11 MSB Exerction of link bridge outputted	0 days 30 days	Tue 25/1/22 Fri 3/12/21	Tue 25/1/22 Sat 1/1/22 Mon 31/1/22	A&A works at South of L 1 MSB Frection of link bridge structural steel
	Erection of link bridge structural steel Casting of bridge deck Metal roofing installation	30 days 11 days 24 days	Sun 2/1/22 Tue 1/2/22 Sat 12/2/22	Mon 31/1/22 Fri 11/2/22 Mon 7/3/22	Casting of bridge deck
	Metar rooming installation ABWF work BS Works	30 days 20 days	Sat 12/2/22 Sun 20/2/22 Tue 22/3/22	Mon 7/3/22 Mon 21/3/22 Sun 10/4/22	Metal rooming installation
	Bo works Ready for power cable laying work by others sction D - (ii) No. 5 Chimney with L12 Steel Flue Liner	0 days 810 days	Sun 10/4/22	Sun 10/4/22 Sun 10/4/22 Tue 21/3/23	c.D(v)
	Area Possession & Clearance Subletting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment)	45 days 120 days	Fri 1/1/21 Fri 8/1/21	Sun 14/2/21 Fri 7/5/21	
	Excavation & Pile Cap & Backfill Tower Crane erection	90 days 30 days	Sat 2/1/21 Tue 11/5/21	Thu 1/4/21 Wed 9/6/21	
	Construction of Wind Shiled + clearance for internal floors and flue+Ground slab Structural steel fabrication & Delivery for floors and staircase	308 days 201 days	Fri 2/4/21 Mon 3/1/22	Mon 4/4/22 Fri 22/7/22	
	Erection of steel floors Construction of G/F room incl. Microwave Antenna Rm	79 days 45 days	Tue 19/4/22 Thu 7/7/22	Wed 6/7/22 Sat 20/8/22	
	Construction of 1/F RC slab Construction of 2/F RC Slab	8 days 8 days	Sat 13/8/22 Fri 5/8/22	Sat 20/8/22 Fri 12/8/22	
	Construction of 3/F RC slab	8 days 8 days	Thu 28/7/22 Thu 7/7/22	Thu 4/8/22 Thu 14/7/22	
	Construction of Roof RC slab Removal of lower Crane	61 days 7 days	Tue 21/6/22 Sun 21/8/22	Sat 20/8/22 Sat 27/8/22	
	Steel Flue fabrication and delivery Set up for steel flue installation	145 days 60 days	Sat 5/3/22 Tue 5/7/22	Wed 27/7/22 Fri 2/9/22	
	Lift & install steel flue liner + cladding works Lift installation Lift installation Lift installation	161 days 100 days	Thu 28/7/22 Mon 12/12/22	Wed 4/1/23 Tue 21/3/23	
	Installation Louvre & Doors Mis works, Demobilization and ready for gas duct connection action D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for	30 days 17 days 102 days	Thu 5/1/23 Thu 5/1/23 Tue 1/3/22	Fri 3/2/23 Sat 21/1/23 Fri 10/6/22	1 Mar '22 📮
ir	sction D (I) - ABWF and BS works at Microwave Antenna Hoom and Chimney Windshield for stallation of microwave and antenna Completion of Microwave Antenna Room	0 days	Tue 1/3/22	Tue 1/3/22	Grand Antiparticipation of Microwave Antenna Room
	Completion of Microwave Antenna Hoom Remaining ABWF & BS Works sction E - (i) Administration and Control Building (Transformer Room)	0 days 100 days 332 days	Tue 1/3/22 Thu 3/3/22 Fri 4/12/20	Fri 10/6/22	
	ection E - (I) Administration and Control Building (Transformer Room) Area Possession & Clearance + BD consent Subletting / Fabrication / Delivery (For Civil+BS+ABWF)	60 days 100 days	Fri 4/12/20 Fri 4/12/20 Tue 2/2/21	Mon 1/2/21 Wed 12/5/21	
	Subletting / Fabrication / Delivery (For Civil+BS+ABWF) Excavation works Main Earth Grid Installation	45 days 45 days 45 days	Fri 4/12/20 Sun 3/1/21	Wed 12/5/21 Sun 17/1/21 Tue 16/2/21	
	Main Earth Grid Installation Pile cap and Tie Beam Tower Crane Erection and modification works	45 days 45 days 49 days	Sun 3/1/21 Sun 3/1/21 Wed 10/2/21	Tue 16/2/21 Tue 16/2/21 Tue 30/3/21	
	I ower Crane Erection and modification works Substructure + Bearing walls + On grade slabs Construction of RC up to 1/F incl. staircases	49 days 115 days 69 days	Wed 10/2/21 Wed 17/2/21 Sat 12/6/21	Fri 11/6/21 Thu 19/8/21	
	Construction of HC up to 1/F incl. starcases ABWF at G/F sction E (ii) Handover G/F, 1/F, 2/F & Hoisting Well	52 days 52 days	Fri 10/9/21	Sun 31/10/21	
	Clicaring Works and plant set-up Clearing Works and plant set-up Subletting / Fabrication / Delivery (For NSC Lift)	21 days 180 days	Sun 31/10/21 Sun 3/1/21	Sat 20/11/21 Sat 31/7/21	
	Construction of RC up to 2/F incl. staircases Construction of RC up to 3/F incl. staircases	25 days 20 days	Sun 3/1/21 Sat 14/8/21 Thu 2/9/21	Mon 13/9/21 Tue 21/9/21	
	Tempoary Hoist erection Construction of RC up to 4/F incl. staircases	14 days 20 days 20 days	Wed 22/9/21 Thu 16/9/21	Tue 5/10/21 Tue 5/10/21	
				. 30 0/10/21	

ime	Duration	Start	Finish	JanFeb	Mar
construction of RC up to R/F incl. staircases construction of RC up to lift machine room	25 days 21 days	Thu 30/9/21 Mon 25/10/21	Sun 24/10/21 Sun 14/11/21	van P8D	Mar
construction of RC up to lift machine room construction of RC up to UR/F xternal Wall Finish, Cladding + Windows and Louvres + Features	21 days 21 days 138 days	Mon 15/11/21 Thu 30/9/21	Sun 14/11/21 Sun 5/12/21 Mon 14/2/22	-External Wall Finish, Cladding	+ Windows and Louvres + Feature
BWF at 1/F BWF at 2/F	95 days 96 days	Fri 8/10/21 Fri 15/10/21	Mon 10/1/22 Tue 18/1/22	ABWF at 2/F	
uilding Services Works at G/F, 1/F, 2/F & Hoisting Well stion E (iii) Whole of Administration and Control Building	147 days 544 days	Tue 5/10/21 Fri 4/12/20	Mon 28/2/22 Tue 31/5/22		g Services Works at G/F, 1/F, 2/F
ubletting / Fabrication / Delivery (For BS+ABWF) onstruction of New UG Grey Water Tank therapising of NUM06 for experimenent	127 days 60 days	Sat 23/10/21 Mon 20/3/23	Sun 20/3/22 Thu 18/5/23		Sublet
ubmission of WW046 for commencement BWF at 3/F BWF at 4/F	60 days 120 days 90 days	Wed 19/1/22 Mon 25/10/21 Wed 24/11/21	Sat 19/3/22 Mon 21/2/22 Mon 21/2/22	ABWF at 3/F	Submiss
BWF at 4/F BWF at R/F BWF at UF/F + Lift Machine Room	90 days 60 days 45 days	Wed 24/11/21 Wed 15/12/21 Wed 5/1/22	Mon 21/2/22 Sat 12/2/22 Fri 18/2/22	ABWF at 4/F ABWF at R/F ABWF at UR/F + Litt Mac	hine Room
idge Erection & Connection stallation of Raised floors	28 days 60 days	Mon 7/2/22 Fri 7/1/22	Mon 28/3/22 Fri 29/4/22	· · · · · · · · · · · · · · · · · · ·	
emoval of external scaffolding /aterproofing & screeding	39 days 60 days	Mon 24/1/22 Mon 6/12/21	Wed 9/3/22 Thu 3/2/22	Waterproofing & screeding	Removal of external scaff
emoval of Tower Crane xternal utiliites and road work	7 days 45 days	Thu 10/3/22 Tue 8/2/22	Wed 16/3/22 Thu 14/4/22	,	Removal of T
uilding Services Works alse ceiling after BS works	160 days 54 days	Tue 7/12/21 Tue 29/3/22	Sun 15/5/22 Sat 21/5/22		
ubmission of WW046 for completion ubmission of FS inspection	30 days 14 days	Wed 9/3/22 Fri 13/5/22	Thu 7/4/22 Thu 26/5/22		
ubmission for OP Inspection titon F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) A ension at Area F14	14 days rea 548 days	Wed 18/5/22 Tue 1/6/21	Tue 31/5/22 Wed 30/11/22		
ension at Area +14 rea Possession & Clearance + BD consent ubletinia / Fabrication / Delivery	90 days 30 days	Tue 1/6/21 Tue 22/6/21	Sun 29/8/21 Wed 21/7/21		
istallation of pipe pile at north of GRS (VO) onstruction Equipment room extension	134 days 145 days	Mon 5/7/21 Sun 31/10/21	Mon 15/11/21 Thu 24/3/22		
odification of existing drainage xexation & earthing for Skid foundations	45 days 21 days	Fri 25/3/22 Mon 9/5/22	Sun 8/5/22 Sun 29/5/22		9
onstruction of Skid foundation onstruct underground utilities and drainage	45 days 45 days	Mon 30/5/22 Thu 14/7/22	Wed 13/7/22 Sat 27/8/22		
ackfill and road works elocate / install new fencing for completion	60 days 21 days	Sun 28/8/22 Thu 27/10/22	Wed 26/10/22 Wed 16/11/22		
lis. Work and ready for OP inspection tion F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	14 days 515 days	Thu 17/11/22 Sat 2/1/21	Wed 30/11/22 Tue 31/5/22	c.E2	
D consent + Site Possession at Area F9A & F9B xcavation & Plate load test	90 days 30 days	Sat 2/1/21 Mon 1/11/21	Thu 1/4/21 Tue 30/11/21		
onstruction new footing for pipe rack nderground utilities and road works for completion	30 days 11 days	Wed 1/12/21 Thu 31/3/22	Thu 30/12/21 Tue 31/5/22	Construction new footing for pipe rack	
tructural Steel fabrication & Delivery cretion of new pipe rack	90 days 70 days	Sat 2/10/21 Fri 31/12/21	Thu 30/12/21 Thu 10/3/22 Tuo 21/5/22	Structural Steel-fabrication & Delivery	Ercetion of new pipe rad
is. Work and ready for OP inspection tion F (iiii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10 real Proceeding & Cloragence - PD concernt	21 days 457 days	Wed 11/5/22 Tue 1/6/21	Tue 31/5/22 Wed 31/8/22	c.E3	
rea Possession & Clearance + BD consent ubletting / Fabrication / Delivery For ABWF + BS stallation of Sheet Pile (VO)	90 days 150 days	Tue 1/6/21 Wed 2/6/21	Sun 29/8/21 Fri 29/10/21		
stallation of Sheet Pile (VO) onsent for ELS Works xozvation & Plate load test	85 days 28 days 30 days	Tue 1/6/21 Wed 25/8/21 Wed 22/9/21	Tue 24/8/21 Tue 21/9/21 Thu 21/10/21	-	
xcavation & Flate load test onstruction new footing for equipment room uperstructure for equipment room	30 days 68 days 60 days	Wed 22/9/21 Thu 23/12/21 Tue 1/3/22	Mon 28/2/22 Fri 29/4/22		uction new footing for equipment
Dependent of equipment room BWF Works S Works	45 days 30 days	Sat 30/4/22 Wed 1/6/22	Mon 13/6/22 Thu 30/6/22		
onstruction RC Wall & plinths & drainage at Chlorinator area xternal wall finish & remove scaffolding	45 days 30 days	Wed 30/3/22 Sat 14/5/22	Fri 13/5/22 Sun 12/6/22		
xcavation & Plate load test for pipe rack extension (For F45-47 & F49) onstruction new footing for pipe rack (For F45-47 & F49)	30 days 45 days	Sat 16/10/21 Mon 15/11/21	Sun 14/11/21 Wed 29/12/21	Instruction new footing for pipe rack (For F45-47 & F49)	
nderground utiilites and road works for completion tructural Steel fabrication & Delivery	60 days 90 days	Thu 30/12/21 Sun 12/12/21	Sun 27/2/22 Fri 11/3/22	- Undergre	sund utilities and road works for c
ackfilling and prepare for steel erection xcavation & Plate Load test for pipe rack extension (For F48 F56)	12 days 14 days	Mon 28/2/22 Wed 30/3/22	Fri 11/3/22 Tue 12/4/22		Backfilling and prepar
onstruction of new footing for pipe rak (For F48 & F56) rection of new pipe rack (For F48 & F56) rection of new pipe rack (For F48 & F56)	14 days 65 days	Wed 13/4/22 Tue 3/5/22	Tue 26/4/22 Wed 6/7/22		
rection of new pipe rack (For F45-47 & F49) is. Work and ready for OP inspection tion G (ii) = External Work surrounding Area E11	70 days 56 days	Sat 12/3/22 Thu 7/7/22	Fri 20/5/22 Wed 31/8/22 Wed 26/10/22		
tion G (i) - External Work surrounding Area F11 rea Possession & Clearance after handover from No. 5 Intake Contractor ubletting / Fabrication / Delivery	145 days 30 days 30 days	Sat 4/6/22 Sat 4/6/22 Sat 4/6/22	Wed 26/10/22 Sun 3/7/22 Sun 3/7/22	-	
ubletting / Fabrication / Delivery ubmission WWO046 for commencement onstruct Underground utilities and drainage	30 days 30 days 30 days	Sat 4/6/22 Sat 4/6/22 Mon 20/6/22	Sun 3/7/22 Sun 3/7/22 Tue 19/7/22	-	
onstruct Underground utilities and drainage istall new FS Hydrant ubmission WWO046 for completeion	30 days 20 days 30 days	Mon 20/6/22 Mon 20/6/22 Sat 30/7/22	Sat 9/7/22 Sun 28/8/22		
uomission www.ouke for completeion onstruction Road extension onstruction road paving and install fencing	58 days 30 days 30 days	Sat 30/7/22 Sat 30/7/22 Mon 26/9/22	Sun 25/9/22 Tue 25/10/22		
eady for OP inspection tion G (ii) - External Works at Area F12 & F13	14 days 666 days	Thu 13/10/22 Fri 4/12/20	Wed 26/10/22 Fri 30/9/22	s.E4	
rea Possession & Clearance after handover from other ubletting / Fabrication / Delivery	45 days 180 days	Fri 4/12/20 Thu 4/3/21	Sun 17/1/21 Mon 30/8/21		
xcavation ubmission WWO046 for commencement	21 days 30 days	Sat 23/10/21 Sat 13/11/21	Fri 12/11/21 Sun 12/12/21	tencement	
construct Underground utilities and drainage Istall new FS Hydrant	90 days 30 days	Mon 13/12/21 Sun 13/3/22	Sat 12/3/22 Mon 11/4/22		Construct Undergrou
ubmission WWO046 for completion onstruction Road extension omplete with Mis. Works for completion	30 days 127 days 15 days	Tue 12/4/22 Thu 12/5/22 Fri 16/9/22	Wed 11/5/22 Thu 15/9/22 Fri 30/9/22		
omplete with Mis. Works for completion ction G (iii) - FS Modification works along South Seafront Road at Area F15 rea Possession & Clearance after handover from other	15 days 183 days 45 days	Fri 1/4/22 Fri 1/4/22 Fri 1/4/22	Fri 30/9/22 Fri 30/9/22 Sun 15/5/22		
rea rossession & clearance are nandover from other ubletting / Fabrication / Delivery emporary Traffice Arrangement approval	21 days 14 days	Fri 1/4/22 Fri 1/4/22 Fri 1/4/22	Thu 21/4/22 Thu 14/4/22		
tilities scanning and expose existing FS etermine new FS alignment	14 days 14 days 21 days	Fri 15/4/22 Fri 29/4/22	Thu 14/4/22 Thu 28/4/22 Thu 19/5/22		
ubmission to FSD odification of FS	14 days 60 days	Fri 20/5/22 Fri 3/6/22	Thu 2/6/22 Mon 1/8/22		
exitial of reinstatment + report to FSD etion G (iv) - 275kV cable trenches and External Works at Area F16	60 days 518 days	Tue 2/8/22 Sat 1/5/21	Fri 30/9/22	c.E4	
ubletting / Fabrication / Delivery	60 days 210 days	Sat 1/5/21 Wed 17/11/21	Tue 29/6/21 Tue 14/6/22		
emoval of aboveground services	60 days 60 days	Sat 1/5/21 Wed 30/6/21	Tue 29/6/21 Sat 28/8/21		
tilities scanning and expose exising UU rrange of diversion existing UG utilities	30 days 90 days	Sun 29/8/21 Tue 28/9/21	Mon 27/9/21 Sun 26/12/21	of diversion existing UG utilities	
ionstruct new cable trenches lealigment / install new UG utilities	173 days 60 days	Mon 27/12/21 Sat 18/6/22	Fri 17/6/22 Tue 16/8/22		
ackfill and reinstate & ready for cable laying by others tion G (v) - Shunt Reactor Compound and External Works at Area F17	45 days 666 days	Wed 17/8/22 Fri 4/12/20	Fri 30/9/22 Fri 30/9/22	c.E4	
emporary Traffice Arrangement approval ubletting / Fabrication / Delivery	45 days 100 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Sat 3/4/21		
D approval & consent for pipe pile installation rea Possession & Clearance	90 days 14 days	Fri 4/12/20 Thu 4/3/21	Wed 3/3/21 Wed 17/3/21		
emoval of aboveground services tilities scanning and expose exising UU reage of diversion existing UG utilities	21 days 15 days	Thu 18/3/21 Thu 8/4/21 Eri 22/4/21	Wed 7/4/21 Thu 22/4/21		
rrange of diversion existing UG utilities stall pipe piles Af4 for pipepile and BD consent for ELS	45 days 61 days 28 days	Fri 23/4/21 Sun 23/5/21 Fri 23/7/21	Sun 6/6/21 Thu 22/7/21 Thu 19/8/21		
A14 for pipepile and BD consent for ELS xcavation & install earthing on onstruct Pile Caps and Tie Beams	28 days 35 days 45 days	Fri 23/7/21 Fri 20/8/21 Fri 24/9/21	Thu 19/8/21 Thu 23/9/21 Sun 7/11/21	-	
onstruct Pile Caps and Tie Beams ackfill & Erect scaffold onstruction of SRC Walls	45 days 21 days 75 days	Hri 24/9/21 Mon 8/11/21 Mon 29/11/21	Sun //11/21 Sun 28/11/21 Fri 11/2/22		
all finish and remove scatfolding	24 days 60 days	Sat 12/2/22 Tue 8/3/22	Mon 7/3/22 Fri 6/5/22		Wall finish and remove scaffo
sall new UG Utilities, Backfill and reinstate & ready for cable laying by Others for DAX1 saligment / install new UG utilities (for DAX2, APX1 & APX3)	55 days 117 days	Thu 7/4/22 Sat 7/5/22	Tue 31/5/22 Wed 31/8/22		
chill and reinstate & ready for cable laying by others (for DAX2, APX1, & APX3) tion G (vi) - 275kV cable trenches and External Works at Area F18	30 days 397 days	Thu 1/9/22 Sat 1/5/21	Fri 30/9/22 Wed 1/6/22	c.E4	
emporary Traffice Arrangement approval ubletting / Fabrication / Delivery	45 days 60 days	Sat 1/5/21 Tue 15/6/21	Mon 14/6/21 Fri 13/8/21		
rea Possession & Clearance emoval of aboveground services	15 days 30 days	Sat 1/5/21 Sun 16/5/21	Sat 15/5/21 Mon 14/6/21		
tilities scanning and expose exising UU rrange of diversion existing UG utilities	45 days 60 days	Tue 15/6/21 Fri 30/7/21	Thu 29/7/21 Mon 27/9/21		
onstruct new cable trenches ealigment / install new UG utilities	172 days 45 days	Tue 28/9/21 Sat 19/3/22	Fri 18/3/22 Mon 2/5/22		Construct
ackfill and reinstate & ready for cable laying by others tion G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A	30 days 521 days	Tue 3/5/22 Fri 4/12/20	Wed 1/6/22 Sun 8/5/22		
rea Possession & Clearance ubletting / Fabrication / Delivery	30 days 60 days	Fri 4/12/20 Fri 25/12/20	Sat 2/1/21 Mon 22/2/21		
emporary Traffice Arrangement approval LS BD approval & consent	300 days 90 days	Fri 4/12/20 Fri 18/12/20	Wed 29/9/21 Wed 17/3/21		
emolition of existing carriageway emoval of aboveground services	30 days 21 days	Thu 11/11/21 Thu 30/9/21	Fri 10/12/21 Wed 20/10/21		
tilities scanning and expose exising UU rrange of diversion existing UG utilities revaration and construction of new Flood wall	21 days 30 days	Thu 21/10/21 Sat 11/12/21 Mon 10/1/22	Wed 10/11/21 Sun 9/1/22 Tue 15/3/22	Arrange of diversion existing UG utilities	Excavation and
xcavation and construction of new Flood wall ealigment / install new UG utilities ackfill and construct new carriageway	65 days 30 days	Mon 10/1/22 Wed 16/3/22 Fri 15/4/22	Tue 15/3/22 Thu 14/4/22 Mon 2/5/22		Contraction and
ackill and construct new carriageway is. Work for completion tion G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	18 days 6 days 365 days	Tue 3/5/22	Mon 2/5/22 Sun 8/5/22 Fri 30/9/22		
tion G (VIII) - Flood Wall at No. 5 CW Intake Area along HUA at Area F2UB rea Possession & Clearance Ubletting / Fabrication / Delivery	45 days 90 days	Fri 1/10/21 Fri 1/10/21 Fri 22/10/21	Sun 14/11/21 Wed 19/1/22	Subletting / Fabrication / Delivery	
ubletting / Fabrication / Delivery amporary Traffice Arrangement approval LS BD approval & consent	90 days 14 days 90 days	Fri 1/10/21 Fri 15/10/21	Thu 14/10/21 Wed 12/1/22	ELS BD approval & consent	
		/		· · · · · · · · · · · · · · · · · · ·	
Aug 2021 Paul Y Task Split Milest	Summar	y ••••• •			

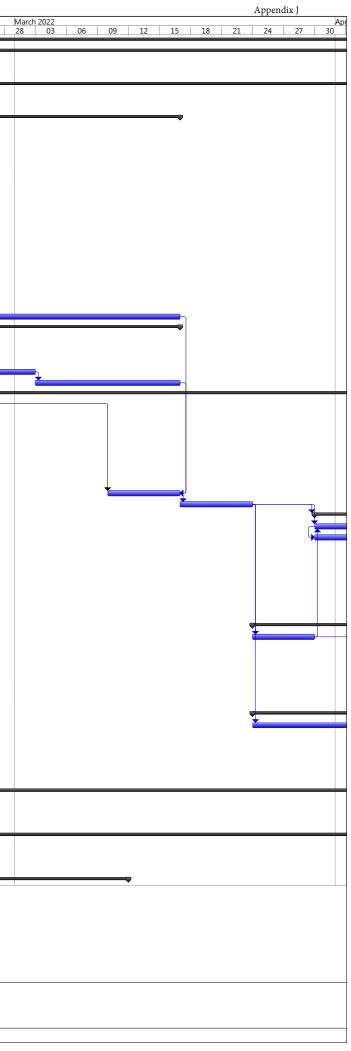
	ntract No. 19/83002 Lamma Power Station Extension Civil and E	Duration		Finish		ter Program
	Demolition of existing carriageway	60 days	Fri 1/10/21	Mon 29/11/21	ground services	Mar
	Removal of aboveground services Utilities scanning and expose exising UU	21 days 21 days	Tue 30/11/21 Tue 21/12/21	Mon 20/12/21 Mon 10/1/22	Utilities scanning and expose exising UU	
	Arrange of diversion existing UG utilities Install Sheetpiles	30 days 55 days	Tue 11/1/22 Thu 10/2/22	Wed 9/2/22 Tue 5/4/22	Arrange of diversion existing US utilities	
	BA14 for sheetpile and BD consent for ELS Excavation and construction of new Flood wall	28 days 90 days	Wed 6/4/22 Wed 4/5/22	Tue 3/5/22 Mon 1/8/22		
	Realigment / install new UG utilities Backfill and construct new carriageway	30 days 21 days	Tue 2/8/22 Thu 1/9/22	Wed 31/8/22 Wed 21/9/22		
	Mis. Work for completion Section G (ix) - Bund wall modification works at South Seafront Road at Area F21	9 days 316 days	Thu 22/9/22 Fri 4/12/20	Fri 30/9/22 Fri 15/10/21		
	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21 Wed 24/3/21		
	Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	90 days 165 days	Fri 25/12/20 Fri 4/12/20	Mon 17/5/21		
	ELS BD approval & consent Demolition of existing carriageway	0 days 14 days	Thu 17/12/20 Tue 18/5/21	Thu 17/12/20 Mon 31/5/21		
	Removal of aboveground services Utilities scanning and expose exising UU	14 days 21 days	Tue 1/6/21 Tue 15/6/21	Mon 14/6/21 Mon 5/7/21		
	Arrange of diversion existing 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	Sat 14/8/21 Sat 14/8/21		
	Construction new bund wall for road junction	21 days	Sat 4/9/21	Fri 24/9/21		
	Realigment / install new UG utilities (include FS pipe under 17/8002) Backfill and construct new carriageway	60 days 16 days	Sun 1/8/21 Thu 30/9/21	Wed 29/9/21 Fri 15/10/21		
	Mis. Work for completion Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	5 days 758 days	Mon 11/10/21 Fri 4/12/20	Fri 15/10/21 Sat 31/12/22		
	Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery	14 days 90 days	Fri 4/12/20 Fri 25/12/20	Thu 17/12/20 Wed 24/3/21		
	Area Possession & Clearance	45 days	Fri 4/12/20 Mon 18/1/21	Sun 17/1/21 Sun 24/1/21		
	Identification of existing cable trench Part 1 Re-excavation works incl.construction of joint bay (at Water Reservoir Road)	7 days 246 days	Mon 25/1/21	Mon 27/9/21		
	Part 1 Re-excavation works incl construction of joint bay (other than Reservoir road base on revised routing)	310 days	Mon 25/1/21	Tue 30/11/21	t bay (other than Reservoir road base on revised routing)	
	Part 2 Re-excavation works incl. joint bay Part 3 Re-excavation works incl. joint bay	120 days 242 days	Mon 1/11/21 Mon 1/11/21	Mon 28/2/22 Thu 30/6/22	-Part 2 Pe-excave	ation works incl. joint bay
	Part 4 Re-excavation works incl. joint bay & new oil tank pits Backfill & Reinstatement Part 1	92 days 61 days	Sat 1/10/22 Mon 1/11/21	Sat 31/12/22 Fri 31/12/21	-Backfill & Reinstatement Part 1	
	Backfill & Reinstatement Part 2	61 days	Sun 1/5/22	Thu 30/6/22		
	Backfill & Reinstatement Part 3 Section H - All remaining works shall be completed for reporting completion to BD and ready for OP	61 days 775 days	Thu 1/9/22 Wed 17/11/21	Mon 31/10/22 Sun 31/12/23		
	inspection (PS1.4.4) Deferred works (MSB & HRSG) Listed in PS 1.4.4	272 days	Wed 17/11/21	Mon 15/8/22		
1	Construction of L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the Employer's Specialist Contractors	38 days	Wed 17/11/21	Fri 7/1/22	Construction of L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installati	ion by the Employer's Specialis
	Construction of walls of L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircases 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	92 days	Mon 16/5/22	Mon 15/8/22		
	Provision in associated with hoisting well	21 days	Mon 6/6/22	Sun 26/6/22		
	Construction of internal partition wall at 1/F ofL12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Façade at 1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C	30 days	Sat 16/4/22	Sun 15/5/22		
	Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable shelter at Transformer Area	92 days	Mon 16/5/22	Mon 15/8/22		
	Deferred works (DAX1 and DAX2) Listed in PS 1.4.4 Backfilling of whole DAXI compartment inside existing joint bay "STJI2" and the new oil tank pit A located aside	334 days 59 days	Wed 1/2/23	Sun 31/12/23 Fri 31/3/23		
	existing joint bay "STJI2".					
	Re-excavation of whole DAX2 compartment inside existing joint bay "STJI2". Backfilling of whole DAX2 compartment inside existing joint bay "STJI2" and the new oil tank pit B located aside	61 days 61 days	Tue 1/8/23 Wed 1/11/23	Sat 30/9/23 Sun 31/12/23		
	existing joint bay "STJI2". Deferred works (External Work) Listed in PS 1.4.4	121 days	Thu 1/12/22	Fri 31/3/23		
	Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area	62 days	Thu 1/12/22	Tue 31/1/23		
	Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.	90 days	Sun 1/1/23	Fri 31/3/23		
	Backfilling and road-reinstatement of 275kV cable trenches	90 days	Sun 1/1/23	Fri 31/3/23		
ç	All Remaining work ready for OP inspection STATUTORY SUBMISSION. INSPECTION & APPROVAL	0 days 560 days	Tue 28/2/23 Tue 16/11/21	Tue 28/2/23 Mon 29/5/23		
	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	Fri 29/7/22 Tue 16/11/21	t Works at later stage)	
	WSD: Vetting Form WWO 046 Part I and II Submission	90 days	Wed 17/11/21	Mon 14/2/22	WSD: Vetting Form WWO 046 Part I and	
	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	Tue 15/2/22 Fri 15/4/22		in by wob - I off Add building
	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	Fri 15/4/22 Tue 14/6/22		
	WSD: 1st Approval for Plumbing Plan by WSD WSD: Prepare and Submit for Final Amendment for Plumbing Plan	0 days 45 days	Tue 14/6/22 Wed 15/6/22	Tue 14/6/22 Fri 29/7/22	_	
	WSD: Vetting and Final Approval for Plumbing Plan by WSD WSD Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission /	0 days 33 days	Fri 29/7/22 Fri 29/7/22	Fri 29/7/22 Wed 31/8/22		
	Approval					
	WSD: Form WWO 046 Part IV Submission (FS) WSD: WSD Recieved Form WWO046 Part IV and arrange for inspection (FS)	0 days 7 days	Fri 29/7/22 Sat 30/7/22	Fri 29/7/22 Fri 5/8/22		
	WSD: WSD Inspection (FS) WSD: WWO 046 Part V Endorsement by WSD (FS)	7 days 12 days	Sat 6/8/22 Sat 13/8/22	Fri 12/8/22 Wed 24/8/22	_	
	WSD: WSD Processing Water Supply Connection Certificate (FS) WSD: Issue by WSD Water Supply Connection Certificate (FS)	7 days 0 days?	Thu 25/8/22 Wed 31/8/22	Wed 31/8/22 Wed 31/8/22		
	WSD Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission /	60 days	Fri 19/8/22	Tue 18/10/22		
	Approval WSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 19/8/22	Fri 19/8/22		
	WSD: WSD Acknowledge Form WWO 046 WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	6 days 12 days	Sat 20/8/22 Fri 26/8/22	Thu 25/8/22 Tue 6/9/22	_	
	WSD: Coleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush) WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	6 days 12 days	Wed 7/9/22 Tue 13/9/22	Mon 12/9/22 Sat 24/9/22		
	WSD:Accredited Lab Testing Report of Sample to WSD	12 days	Sun 25/9/22	Thu 6/10/22		
	WSD: Vetting of Test Report by WSD WSD: Issue of WWO 046 Part V (Fresh/Flush)	6 days 0 days	Fri 7/10/22 Wed 12/10/22	Wed 12/10/22 Wed 12/10/22		
		6 days	Thu 13/10/22	Tue 18/10/22	_	
	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush) WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush)	6 days 0 days	Tue 18/10/22	Tue 18/10/22		
	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	0 days 45 days	Tue 18/10/22 Sat 26/3/22	Tue 18/10/22 Mon 9/5/22 Wed 6/4/22		26 Mar '22 🤍
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	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush) Image: Constant Statutory Submission, Inspection and Approval EMSD Lift Statutory Submission, Inspection and Approval Image: Constant Statutory Submission, Inspection and Approval EMSD: Submission of Lift Form LE5 to EMSD Image: Constant Statutory Submission, Inspection and Approval EMSD: EMSD Inspection to Lift Installation Image: Constant Statutory Submission, Inspection Constant Status EMSD: First Statutory Submission of Lift Certificate (Form LE6) Image: Constant Status EMSD: Lift Sustance of Form 6 (Lift Certificate) Image: Constant Status HKE Transformer Final Inspection TX Room: Invite HKE For Transformer Room Inspection TX Room: Invite HKE Transformer Room Inspection TX Room: Invite HKE Transformer Room Inspection TX Room: Install HKE Transformer Room Inspection TX Room: Invite HKE Prever Energization / Inspection TX Room: Inkte Power Renergization / Inspection TX Room: Metering Installation TX Room: Inkte Power Con Date Image: Completion Memo DSD: CCTV Survey Report on Completed Drainage DSD For Technical Audit DSD: Completed Drainage Connection Completion Memo by DSD Image: Completion Completion Memo by DSD DSD: Preparation of Drainage Connection Completion Memo by DSD Image: Completion Depender APCO (Cap 311) for Generator Sets EPD: Lic	0 days 45 days 12 days 5 days 14 days 14 days 0 days 120 days 120 days 7 days 0 days 6 days 90 days 6 days 90 days 6 days 12 days 0 days 6 days 14 days 0 days 6 days 14 days 0 days 6 days 14 days 0 days 14 days 0 days 15 days 0 days 14 days 0 days 15 days 0 days 16	Tue 18/10/22 Sat 26/3/22 Thu 26/3/22 Thu 21/4/22 Tue 26/4/22 Mon 9/5/22 Thu 30/6/22 Thu 30/6/22 Wed 6/7/22 Tue 12/7/22 Mon 10/10/22 Sun 16/10/22 Sun 2/10/22 Sun 2/10/22 Tue 2/11/22 Tue 8/11/22 Tue 8/11/22 Tue 8/11/22 Tue 8/11/22 Tue 8/11/22 Tue 2/11/22 Mon 5/12/22 Thu 30/6/22 Thu 30/6/22 Thu 30/6/22 Thu 30/6/22 Thu 30/6/22 Wed 20/7/22 Wed 20/7/22	Mon 9/5/22 Wed 6/4/22 Won 11/4/22 Mon 11/4/22 Mon 9/5/22 Mon 9/5/22 Wed 6/7/22 Wed 6/7/22 Wed 6/7/22 Won 11/7/22 Sun 9/10/22 Sat 15/10/22 Thu 27/10/22 Mon 31/10/22 Mon 5/12/22 Mon 29/8/22 Thu 30/6/22 Thi 30/6/22 Thi 16/12/22 Mon 29/8/22 Sat 17/9/22		26 Mar '22
	WSD: WSD Processing WW01005 Water Certification (Fresh/Flush) Image: Certification (Fresh/Flush) WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush) Image: Certification Certification Certification (Fresh/Flush) EMSD: EMSD: Makes arrangement for Lift Installation EMSD: EMSD Inspection to Lift Installation EMSD: FMSD Inspection to Lift Installation EMSD: EMSD Inspection to Lift Installation EMSD: Lift Submission, respective to the Certificate (Form LE6) EMSD: Lift Issuance of Form 6 (Lift Certificate) HKE Transformer Final Inspection TX Room: Invite HKE For Transformer Room Inspection TX Room: Invite HKE Transformer Foupments TX Room: Inspection / Inspection TX Room: Install HKE Transformer Foupments TX Room: Metering Installation TX Room: Inket Power Con Date DSD DSD: CCTV Survey Report an Completed Drainage DSD For Technical Audit DSD: CCTV Survey Report & Form HPB1 of Completed Drainage to DSD For Technical Audit DSD DSD: CCTV Survey Report and Completion Memo by DSD DSD DSD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit DSD DSD: CCTV Survey Report an Completion Memo by DSD DSD DSD: Submitted CCTV Report & Form HPB1 of Completion Memo by DSD DSD DSD: Submitted CCTV Report & APCO (Cap 311) for Generator Sets	0 days 45 days 12 days 5 days 14 days 14 days 0 days 120 days 120 days 14 days 120 days 120 days 12 days 0 days 12 days 0 days 0 days 12 days 0 days 0 days 12 days 0 day	Tue 18/10/22 Sat 26/3/22 Thu 26/3/22 Thu 7/4/22 Tue 26/4/22 Tue 26/4/22 Thu 30/6/22 Thu 30/6/22 Thu 30/6/22 Thu 7/1/22 Tue 12/7/22 Tue 12/7/22 Sun 2/10/22 Sun 2/10/22 Sun 2/10/22 Tue 2/11/22 Tue 8/11/22 Tue 8/11/22 Tue 8/11/22 Tue 30/6/22 Thu 30/6/22 Thu 30/6/22 Fri 1/7/22 Mon 5/12/22 Thu 30/6/22 Fri 1/7/22 Wed 20/7/22 Wed 20/7/22 Sun 18/9/22 Tue 18/10/22	Mon 9/5/22 Wed 6/4/22 Won 11/4/22 Mon 11/4/22 Mon 9/5/22 Mon 9/5/22 Mon 9/5/22 Wed 6/7/22 Wed 6/7/22 Wed 6/7/22 Wed 6/7/22 Mon 11/7/22 Sat 15/10/22 Thu 27/10/22 Thu 27/10/22 Mon 5/12/22 Mon 7/11/22 Mon 5/12/22 Mon 29/8/22 Mon 17/10/22 Won 17/10/22 Won 17/10/22 Won 16/11/22		26 Mar '22
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547	l esting and Commissioning (Individual System - FSI Related)	45 days	Tue 28/2/23	Thu 13/4/23
548	FSD: All Sections FS Ingration Test by NSC_BS	15 days	Fri 14/4/23	Fri 28/4/23
549	FSD: Completion of FS Integration Test by NSC_BS for FS314/501	0 days	Fri 28/4/23	Fri 28/4/23
550	FSD: Submit Form 213/314 & Form 501 Request for Inspection	0 days	Fri 28/4/23	Fri 28/4/23
551	FSD: FSD Makes Arrangement for Inspection	7 days	Sat 29/4/23	Fri 5/5/23
552	FSD: FSD Inspection	12 days	Sat 6/5/23	Wed 17/5/23
553	FSD: Completion of FS Inspection	0 days	Wed 17/5/23	Wed 17/5/23
554	FSD: FSD Processing FS Certicate Form 172	12 days	Thu 18/5/23	Mon 29/5/23
555	FSD: Issue of Fire Services FS Certificate Form 172	0 days	Mon 29/5/23	Mon 29/5/23
556	PRACTICAL COMPLETION	216 days	Tue 30/5/23	Sun 31/12/23
57	BD Inspection	97 days	Tue 30/5/23	Sun 3/9/23
58	BD: Application Form BA13 for OP Application	21 days	Tue 30/5/23	Mon 19/6/23
59	BD: BD Inspection Date	15 days	Tue 20/6/23	Tue 4/7/23
60	BD: Reinspection date with defects and rectification works	60 days	Wed 5/7/23	Sat 2/9/23
i61	BD: Obtain Occupation Permit (OP) from BD	1 day	Sun 3/9/23	Sun 3/9/23
562	As-Built Drawings & Handover Documentation	120 days	Wed 14/6/23	Wed 11/10/23
563	Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Wed 14/6/23	Fri 28/7/23
564	Review and Approval	45 days	Sat 29/7/23	Mon 11/9/23
65	As-Built Drawings & Handover Documentation - Revision by MC	30 days	Tue 12/9/23	Wed 11/10/23
566	Revised As-Built Drawings & Handover Documentation - Final Submission	0 days	Wed 11/10/23	Wed 11/10/23
567	Completion of the Whole Contract Works	119 days	Mon 4/9/23	Sun 31/12/23
568	1st Client Inspection for Review and Comments	30 days	Mon 4/9/23	Tue 3/10/23
569	Defects and Rectification works	60 days	Wed 4/10/23	Sat 2/12/23
570	2nd Client Inspection	14 days	Sun 3/12/23	Sat 16/12/23
571	Minor Defects Rectification Works and Final Inspection	15 days	Sun 17/12/23	Sun 31/12/23
572	PRACTICAL COMPLETION	0 days	Sun 31/12/23	Sun 31/12/23



ID		ïask Name	Duration Start Finish January 2022 February 2022 20
1	-	9-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension	30 02 05 08 11 14 17 20 23 26 29 01 04 07 10 13 16 19 22 25 614 days Mon 10/05/20 Wed 10/26/22
2		Contract Details	518 days Mon 10/05/20 Thu 07/07/22
15		Submission	308 days Wed 10/28/20 Wed 11/10/21
36		Procurement	166 days Mon 10/19/20 Thu 05/13/21
45		No.5 C.W. Intake	560 days Mon 10/05/20 Wed 08/24/22
46		Erect of Hoarding and Door Gate	12 days Mon 10/05/20 Sat 10/17/20
54		Install Monitoing Instrumentation ELS works for No. C.W. Intake	16 days Sat 10/17/20 Fri 11/06/20 359 days Tue 12/29/20 Wed 03/16/22
55	_	Installation of pipe pile wall	121 days Tue 12/29/20 Sat 05/29/21
63		BD Excavation Consent	0 days Wed 06/30/21 Wed 06/30/21
64 🏾		BA8 of ELS of intake	25 days Tue 07/27/21 Tue 08/24/21
65		Excavate upto +4.50mPD	6 days Wed 08/25/21 Tue 08/31/21
66		Installation of 1st row of Tie Back	77 days Wed 09/01/21 Thu 12/02/21
74		Installation the 1st row of waling (WT1) and strut (CS1)	12 days Fri 10/15/21 Thu 10/28/21
75		Excavate upto +2.70mPD	6 days Fri 10/29/21 Thu 11/04/21
76		Installation of 2nd row of Tie Back	41 days Fri 11/05/21 Wed 12/22/21
78		Pull Out Test for Tie Back RW02 (72-77) - 6 nos	10 days Fri 11/05/21 Tue 11/16/21 3 days Wed 11/17/21 Fri 11/19/21
79		RW02 (50-71) - 22 nos	8 days Sat 11/20/21 Mon 11/29/21
80		RW02 (1-10) - 10 nos	4 days Fri 12/03/21 Tue 12/07/21
81		RW02 (11-49) - 39 nos	13 days Wed 12/08/21 Wed 12/22/21
82		RW02F (23-70) - 48 nos	17 days Fri 11/26/21 Wed 12/15/21
83		RW02F (1-22) - 22 nos	8 days Wed 11/17/21 Thu 11/25/21
84		Installation the 2nd row of waling (WT2) and strut (CS2)	12 days Thu 12/23/21 Sat 01/08/22
85		Excavate uoto +1.00mPD	6 days Mon 01/10/22 Sat 01/15/22
86 87		Excavate upto -7.50mPD	48 days Mon 01/17/22 Wed 03/16/22
88		Temporary removal of sea wall Application of Marine Permit	206 days Fri 07/09/21 Wed 03/16/22 78 days Fri 07/09/21 Mon 10/11/21
89	-	Install silt curtain wall	2 days Fri 01/14/22 Mon 01/17/22
90		Tempoary removal of sea wall (USS)	18 days Mon 01/17/22 Wed 02/09/22
91		Removal of existing culvert off-site (USS)	18 days Thu 02/10/22 Wed 03/02/22
92		Prepare formation level for intake chamber	12 days Thu 03/03/22 Wed 03/16/22
93		Construction of No. 5 C.W. Intake Chamber	243 days Sat 09/25/21 Fri 07/22/22
94	_	Off-site fabrication for Bottom Part of Intake Chamber (From -7.20mPD to +3.00mPD)	107 days Sat 09/25/21 Sat 02/05/22
95		Semisubmersible Barge Return to Casting Yard	0 days Sat 09/25/21 Sat 09/25/21
96 III 97		Setup work on Semisubmersible Barge	26 days Sat 09/25/21 Wed 10/27/21
97		Bottom Slab (from -7.20mPD to -5.50mPD, 1596m3) External Wall (from -6.35mPD to -5.50mPD, 701m3)	31 days Thu 10/28/21 Thu 12/02/21 11 days Fri 12/03/21 Wed 12/15/21
99		External Wall (from -5.00mPD to -1.50mPD, 380m3)	11 days Thu 12/05/21 Web 11/05/22
100		External Wall (from -1.50mPD to +3.00mPD, 571m3)	18 days Tue 01/04/22 Mon 01/24/22
101		Temporary metal gate and support frame	8 days Tue 01/25/22 Sat 02/05/22
102		Delivery of Precast instake Chamber	6 days Thu 03/10/22 Wed 03/16/22
103 🣢		Installation of Precast intake Chamber	6 days Thu 03/17/22 Wed 03/23/22
104		In-situ casting for Top Part of Intake Chamber (From +3.00mPD to +7.20mPD)	92 days Wed 03/30/22 Fri 07/22/22
105 106		External Wall to +5.70mPD	16 days Wed 03/30/22 Thu 04/21/22 16 days Wed 03/30/22 Thu 04/21/22
108		Install Bottom Layer Internal Precast Panel (Below Water) Dewatering	2 days Wed 05/11/22 Thu 04/21/22 Thu 05/12/22
107		Cast in-situ Internal Wall (Bottom Part)	6 days Fri 05/13/22 Thu 05/19/22
109		Install Middle Layer Internal Precast Panel	8 days Fri 05/20/22 Sat 05/28/22
110		Cast in-situ Internal Wall (Middle Part)	10 days Mon 05/30/22 Fri 06/10/22
111		Install Upper Layer Internal Precast Panel	8 days Sat 06/11/22 Mon 06/20/22
112		Cast in-situ Internal Wall (Upper Part)	10 days Tue 06/21/22 Fri 07/01/22
113		Top Slab	18 days Sat 07/02/22 Fri 07/22/22
114		Backfilling Works and Strut removal	102 days Thu 03/24/22 Thu 07/28/22
115 116		Backfilling to +2.80mPD with rockfill Removal of 2nd layer strut	5 days Thu 03/24/22 Tue 03/29/22
116		Removal of 2nd layer strut Backfilling to +4.50mPD with fill	2 days Fri 04/22/22 Sat 04/23/22 6 days Mon 04/25/22 Sat 04/30/22
117		Removal of 1st layer strut	2 days Tue 05/03/22 Wed 05/04/22
119		Backfilling to +5.50mPD with fill	4 days Thu 05/05/22 Tue 05/10/22
120	-	Utilities and Puddle Pile Installation	18 days Sat 06/11/22 Fri 07/01/22
121		Backfilling the remaining portion with compacted fill to proposed formation level	11 days Sat 07/16/22 Thu 07/28/22
122		Reinstatement of sea wall	100 days Thu 03/24/22 Tue 07/26/22
123		Reinstate culvert	30 days Thu 03/24/22 Tue 05/03/22
124		Reinstate sea wall block	40 days Wed 05/04/22 Tue 06/21/22
125 126		Retaining wall and backfilling works Steel Gantay Frame at No. 5.C.W. Intake Chamber	30 days Wed 06/22/22 Tue 07/26/22 28 days Sat 07/23/22 Wed 08/24/22
126		Steel Gantry Frame at No. 5 C.W. Intake Chamber Construction of Rail Foundation (1022/1023)	28 days Sat 07/23/22 Wed 08/24/22 18 days Sat 07/23/22 Fri 08/12/22
127	-	Construction of Steel Gantry Frame at No. 5 C.W. Intake Chamber (0428 to 0430)	10 days Sat 07/23/22 PH 06/22/22 10 days Sat 08/13/22 Wed 08/24/22
120	-	E&M Works	100 days 5 Thu 12/23/11 Mon 08/22/22
130		Temporary diversion of existing drainage system (from MH807 to MH804)	18 days Thu 12/23/21 Mon 01/17/22
131		Sump Pump fro Drainage System	26 days Sat 07/23/22 Mon 08/22/22
132		Drainage Improvement Works	26 days Wed 06/22/22 Thu 07/21/22
133		No 5 CW Equipment Room, pipe and cable rack, external works at Area F10	396 days Wed 05/05/21 Wed 08/31/22
153		External Work Surrounding Area F11	124 days Sat 06/04/22 Wed 10/26/22
160 185	_	CW Inlet Culvert at Area 8A CW Inlet Culvert at Area 8B	190 days Fri 06/04/21 Thu 01/20/22 107 days Wed 06/09/21 Sat 10/16/21
205		CW Inlet Culvert at Area 86 CW Inlet Culvert at Area 8C	107 days wed 06/09/21 Sat 10/16/21 199 days Tue 07/13/21 Fri 03/11/22
1 200			





ID	Task Name	Duration Start	Finish	January 2022 February 2022
	0	540 June 10/05/20	Thu 07/07/22	<u>30</u> 02 05 08 11 14 17 20 23 26 29 01 04 07 10 13 16 19 22 25
1	19-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension			
2	Contract Details	518 days Mon 10/05/20		
15		308 days Wed 10/28/20		
36		166 days Mon 10/19/20		
45		442 days Wed 11/11/20		
46 🏛 47		12 days Wed 11/11/20		
	Install Monitoing Instrumentation	2 days Wed 11/25/20		
54	Pile Cap Construction	196 days Wed 12/30/20		
55	LPS Pile Cap (PC5)	80 days Thu 01/21/21		
56 匪		42 days Thu 01/21/21		
57	Socket H-pile head treatment (14 nos)	6 days Mon 03/15/21		
58 59	Construction of Pile Cap PC5	26 days Mon 03/22/21		
59 60	Backfilling to pile cap level	6 days Mon 04/26/21		
60	LMX Pile Cap (PC6)	196 days Wed 12/30/20		
62	Expose existing 275kV cable trench by hand dig method	12 days Wed 12/30/20		
62	Install pipe pile (P1-P47)	24 days Thu 01/28/21		
64	Submission of BA14, as-built plan and record BD Excavation Consent	14 days Mon 03/01/21		
65		0 days Tue 04/20/21		
	Excavate to 500mm below strut level	6 days Wed 04/21/21		
66 67	Install waling system (W1)	6 days Wed 04/28/21		
68	Excavate to F.E.L.	12 days Thu 05/06/21		
69	Timming to COL for Dia 2180mm Bored Pile (8nos)	26 days Fri 05/21/21		
70	Construction of Pile Cap PC6 Backfilling to pile cap level	52 days Tue 06/22/21 6 days Mon 08/23/21		
70	Exisiting Seawall modification works (USS)	26 days Mon 08/23/21		
71	Construction of Cable Bridge	-		
72	Off-site precast beam construction (PCB1-PCB12)	326 days Wed 04/07/21 142 days Wed 04/07/21		
88	Application of Marine Permit	78 days Tue 06/22/21		
89	Erect precast beam (PCB1-PCB12)	16 days Thu 09/23/21		
90	Construction of Diaphragm Beams (DB7-DB11)	36 days Wed 10/13/21		
91	Stage 2 PT Stressing	6 days Thu 12/02/21		
92	Construction of 200mm thk R.C. Middle Slab	36 days Thu 12/09/21		
93	Installation of Precast Panel (for planter and kerb)	52 days Mon 01/24/22		
94	Casting of 250mm thk. R.C. Top Slab	18 days Tue 03/08/22		
95	Road paving work	24 days Mon 04/11/22		
96	Installation of steel parapet	24 days Mon 04/11/22 24 days Mon 04/11/22		
97	Construction of Abutment at LPS	114 days Thu 12/09/21		
98	Construction of Shear Key NSK2	12 days Thu 12/09/21		
99	Construction of End Beam EB1	40 days Thu 12/23/21		
100		18 days Tue 02/15/22		
100	Construction of Abutment Wall AW2	18 days Tue 03/08/22		
102		26 days Tue 03/29/22		
103	5 ()1 (26 days Tue 03/29/22		
103	Construction of Abutment at LMX	110 days Thu 12/09/21		
105	Construction of Shear Key SSK1	12 days Thu 12/09/21		
106		26 days Thu 12/23/21		
107	Construction of maintenance chamfer	18 days Wed 01/26/22		
108	Construction of Abutment Wall AW1	18 days Sat 02/19/22		
109	Construction of late cast portion of pile cap PC6	18 days Sat 03/12/22		
110		18 days Sat 04/02/22		
111	5	32 days Tue 03/29/22		
112		32 days Tue 03/29/22		
113		32 days Tue 03/29/22		
114		26 days Tue 03/29/22		
115	5 5 7	26 days Tue 03/29/22		
116	5			
117				
116	Fire Hydrant Box	26 days Tue 03/29/22 26 days Tue 03/29/22 32 days Tue 03/29/22	Tue 05/03/22	2

Project: 19-83014 - No. 5 Intake and Cable Br	Task		Summary	·	External Milestone	\$	Inactive Summary	$\bigtriangledown \qquad \bigtriangledown$	Manual Summary Rollup		Finish-only	3
Date: 23 Jan 2021 Rev. 2(a) - Combined L12 Area (Draft)	Split		Project Summary	\rightarrow	Inactive Task		Manual Task	C 3	Manual Summary		Progress	
Rev. 2(a) - Combined L12 Area (Drait)	Milestone	•	External Tasks		Inactive Milestone	\diamond	Duration-only		Start-only	C	Deadline	Ŷ
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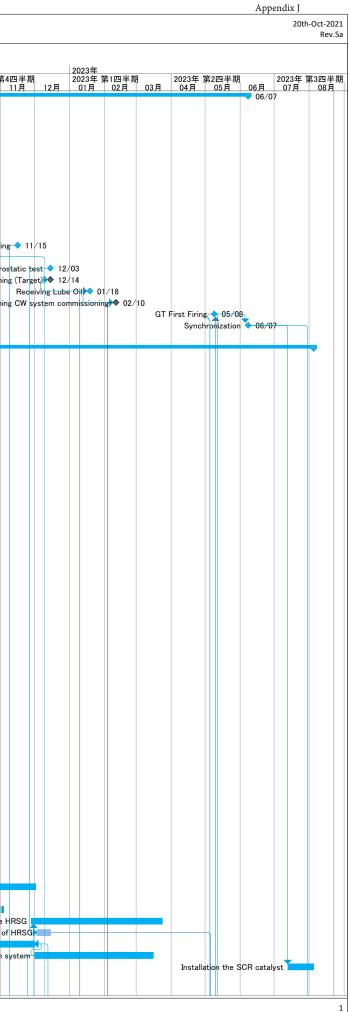
	March	2022										Ap	pen	ndix	J			le.
	March 28	03	(06	09		12	15		18	21		24		27		30	Apr
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Construction Schedule of Unit-12

C	タスク名	期間	開始日	終了日	先行タスク																	
0						2021年 第2四半			第3四半期	00 8	2021年			2		第1四半期		第2四半期	2022年 第3匹	半期	2022年 第	
1	-	527日	21/10/01 (金)	23/06/07 (水)		04月 05月	06月	07月		09月 y Date 【		ПА	12	ся	01月	02月 03月	04月	05月 06月	07月 08	зд оуд	10月	
2 🔢		1日	21/10/01 (金)					H/O	HRSG Four													
3 🔢		1日 1日	21/11/01(月) 21/12/15(水)			-			H/O		stallation			• 10/1								
5 1		1日 1日	21/12/13(八) 21/11/15(月)	21/12/13(水) 21/11/15(月)		-		equipmer	t foundatio		Condens			• 12/1	5							
6		1日	22/02/01 (火)	22/02/01 (火)		-	11/ 0 Aux	. equipinei			iT Exhaus			on (As	sumed)	• 02/01						
7		1日	22/02/01 (火)	22/02/01 (火)												02/01						
8 🎫		1日	22/01/15(土)	22/01/15 (土)					N	ISB Full	access (B	Except P	/T fou	ndation	n) 🔶 01	/15						
9		1日	22/01/15(土)	22/01/15(土)						H/O	Foundatio											
10 🔢 11 🔢		1日 1日	22/03/10(木) 22/04/15(金)	22/03/10(木) 22/04/15(金)		_						H/O	Founda			ransformer 🔷 03/		4/15				
12		5日	22/04/15(金) 22/04/15(金)	22/04/13 (壶)		-						Delive	erv dati			Indation of Powert ns (GT,GEN,ST,GE						
13	-	1日	22/07/15 (金)	22/07/15 (金)		-						Delive	Jiy uau						EN 07/15			
14	Power Receiving	1日	22/11/15 (火)	22/11/15 (火)																Po	ower Receiv	ing ┥
15 💷		1日	22/09/30(金)	22/09/30(金)														H/O Fo	undation of No	5 Intake area	• 09/30	_
16 🔢	-	10日	22/12/03 (土)	22/12/14 (水)	1000 00 0																-	rostat
17	Beginning Closed cooling water system flushing (Target) Receiving Lube Oil	1日 1日	22/12/14 (水) 23/01/18 (水)	22/12/14 (水) 23/01/18 (水)	18SS-30日 208SS	_												Begi	nning Closed c	ooling water :	system flush	ing (T
19	-	1日	23/01/18(穴) 23/02/10(金)	23/01/18 (水) 23/02/10 (金)	20833 18SS+20日	-															Beginn	ing C
20		1日	23/05/08(月)	23/05/08(月)	213	-															Degini	
21	Synchronization	1日	23/06/07 (水)	23/06/07 (水)	20FS+25日																	
22																						
23		577 日	21/10/01 (金)	23/08/04 (金)						HRSG												
24 25		2日 3日			2SS 24SS	-	Make		on for const Center line i													
26	-	3日 15日	21/10/01(金)	21/10/04 (月) 21/10/18 (月)	2433 24SS	-				hipping												
27		10日		21/10/15 (金)	26SS+3日	-				r setting												
28	Lay down Pipes under HRSG	10日	21/10/09 (土)	21/10/20 (水)	27SS+4日			Lay dov	n Pipes un	der HRS	G											
29		9日		21/10/30(土)	28					rt legs s	-	h.										
30		3日			31SF	_			for installin		I FL.	~										
31 32		6日 35日			29 31	_		-	and installi s Short legs	-		•		.								
33		35日		21/12/17(金)	31	-			tting and w													
34		35日			31				and welding	-	-											
35	Setting FL+2.5m floor structure	17日	21/11/08(月)	21/11/26 (金)	31			S	etting FL+2	.5m flooi	r structur	e 📕										
36		10日			35						on botton	-	—									
37 38		2日		21/10/29(金)	38SF-10日	_					wn tank 🛽											
39		40日 17日	21/11/10(水) 21/11/25(木)		31FS+2日 32SS+15日	-			JRE pipe ra Ilation and													
40		2日		21/12/10 (金)	79FS+2日				Unloading S				#1									
41		4日			142SS-1日																	
42 💷		42日	22/01/01 (土)	22/02/18 (金)	94SS+20日					Lifti	ing and in Lifting	stalling S	Side ca	sing								
43		40日	22/01/19(水)		42SS+15日						Lifting	and insta	alling T	Fop cas	sing							
44 45		2日 2日	22/02/03(木) 22/03/14(月)	22/02/04 (金) 22/03/15 (火)	99 101FS+10日	4						Liftir	ng and		ing SCR	nstalling AIG						
46		18			96SS-1日				Un	loading \$	Side casir	ng and To	op Casi									
47	Installation of piping, header, support, EXP inside HRSG	40日		22/03/11 (金)	42SS+20日				Installation			F		nside H	IRSG)							
48	Lifting and installing HRSG Inlet duct	2日	22/04/26 (火)	22/04/27 (水)	103									Lift	ing and	installing HRSG In	et duct <					
49		55日	22/03/07(月)	22/05/09(月)	48FF+10日					Settin	ng FL+29m			e (The	part of o	over hang)						
50		8日	22/04/11(月)	22/04/19(火)	49SS+30日							Lifting				after pre-assembli	-					
51 52		10日 2日	22/04/28 (木) 22/04/15 (金)	22/05/09(月) 22/04/16(土)	49FS-10日 12SS							Suspend				ube bundle (Around nsportation of GEN						
53		3日	22/04/28(木)	22/04/30(土)	48							ouspend				Tube bundle (Stora	1 1 1					
54 💷		3日			53											ading Tube bundle						
55		3日	22/05/05(木)	22/05/07 (土)												talling Tube bundle						
56		5日	22/05/10(火)											Lifti		nstalling Tube bund						
57 58		5日 3日	22/05/16(月) 22/05/21(土)		56 57	_										Inloading Tube bun e installing Tupe bu		—				
59		15日	22/05/25 (水)													nd installing Tube b						
60		30日	22/05/21 (土)	22/06/28 (火)	56SS+10日								Set			oor structure (Abo						
61	Lifting and setting HP-Drum	1日	22/06/02 (木)	22/06/02 (木)	60SS+10日									Ĭ				HP-Drum				
62		1日			59FS+10日											Li	fting and :	setting IP–Drum 🏷				
63		1日	22/07/06 (水)	22/07/06 (水)	62FS+10日	_											-	and setting LP-Drum				
64 65	Lifting and installing HRSG Outlet duct Suspend outside work for transportation of GT & GEN	2日 8日	22/08/05(金)	22/08/06 (土) 22/07/21 (木)	105										Sur		-	nd installing HRSG C sportation of GT & G				
66		0日 10日	22/07/07(木)	22/07/18(月)	63										Sus	spena outside work		usting HDR level (HF				
67		15日	22/07/19 (火)	22/08/04 (木)	66	-												sting HDR level (IP &				
68 💷	Lifing Frame 7,9 and 8	25日	22/08/19 (金)	22/09/16 (金)	69													T	rame 7,9 and 8			
69		10日	22/08/08(月)		64													RSG roof structure (7		
70	-	100日	22/08/08(月)	22/12/01 (木)	69SS	_										Setting roof		(Including deferrable				-
71 72		5日 40日	22/08/31(水) 22/09/17(土)	22/09/05 (月) 22/11/02 (水)	70SS+20日 220SS												L Li	ifting and setting the	e silencer of Hi	RSG		
72		40日 100日	22/09/17(上)		87															ssembly acce	essory inside	HRS
74		10日	22/12/03 (±)		16SS	1															ostatic test	
75	Excavation the foundation of UTAC (By Civil)	30日	22/10/27 (木)	22/12/01 (木)	76SF													Excavati	on the foundat			_
76		90日			0450 005														Ure	a to Ammonia	a conversior	syst
77	Installation the SCR catalyst	20日	23/07/13 (木)	23/08/04 (金)	21FS+30日	-																
70						1	1		1		1 I I			- I II-								. [
78 79	Assembly 1250ton C/C	10日	21/11/25(木)	21/12/06(日)						A	bly 1250t											۱.

NOTE 1. The key date is subjected in the KOM held on 30th-Sep. 2. The east area on the MSB is assumed to be handovered before B-Feb-2022 according to the above key date changed.

3.Considered the affection of KURE's schedule belows; i) Because of delaying the side casing,installation Inlet duct is postponed. ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule.



Construction Schedule of Unit-12

					Construction Schedule of Unit-12
タスク名	期間	開始日	終了日	先行タスク	
					2022年 2023年
					2022年 2023年 2023年 021年第3四半期 2021年第3四半期 2021年第4回半期 2022年第1回半期 2022年第3回半期 2023年第1回半期 2023年 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 10月 11月 12月 01月 05月 06月 07月 08月 09月 11月 12月 01月 05月 06月 07月
1250tonC/C work for GT inlet duct	40日	22/09/19(月)	22/11/03 (木)	220SS	04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月
Disassembly 1250tonC/C	10日	22/11/04 (金)			Disassembly 1250tonC/C
Assembly 400tonC/C	5日	22/04/19 (火)	22/04/23 (土)	53SF-3日	Assembly 400tonC/C/==+
Disassembly 400tonC/C	4日	22/06/15 (水)	22/06/18 (土)	59FS+3日	Disassembly 400tonC/C
Lifting and hang Pipes (Left side of HRSG)	80日		22/06/07 (火)		Lifting and hang Pipes (Left side of HR\$G)
Fitting Pipes (Inside of HRSG / HP)	90日 90日		22/11/09 (水)		Fitting Pipes (Inside of HRSG / HP)
Fitting Pipes (Inside of HRSG / IP,LP) Lifting and hang Pipes (Upper HRSG)	90日 60日	22/08/15(月) 22/08/05(金)	22/11/26(土) 22/10/13(木)		Lifting and hang Pipes (Upper HR\$G)
Fitting and welding Pipes in range of Hydros			22/11/11(金)		Fitting and welding Pipes in range of Hydrostatic
Fitting and welding Pipes out range of Hydro		22/11/12 (土)			Fitting and weiting Pipes out range of Hydrostatic
Insulation work for high temp piping	150日	22/10/29 (土)	23/04/21 (金)		Insulation work for high temp piping
Preparing preassembling area for side casing			21/11/25 (木)		Preparing preassembling area for side casings 🔫
Preassembly Side casing (2set)	30日		22/01/12 (水)		Preassembly Side casing (2set)
Preassembly Top casing (LP and IP) Installing lugging and attachement to Side c.	30日 sing (2ast) 20日		22/01/12(水) 22/01/31(月)	94SS 42SS+6日	Preassembly Top casing (LP and IP)
Preassembly Top casing (HP)	sing (2set) 20日 20日		22/02/22 (火)	4233+0日 43SS+10日	Installing lugging and attachement to Side casing (Zset) Preassembly Top casing (HP)
Prepare for preassemble SCR	3日				Preassembly top casing (HP)
Preassembly SCR	15日		22/02/02 (水)		Preasembly SCR
Prepare for preassemble AIG	3日		22/02/08 (火)		Prepare for preassemble AiG
Preassembly AIG	18日		22/03/01 (火)		Preasembly AIG
Prepare for preassemble HRSG Inlet duct	4日		22/02/23 (水)		Prepare for preassemble HRSG Inlet duct
Preassembly HRSG Inlet duct	52日		22/04/25(月)		Preassembly HRSG Inlet duct
Prepare for preassembly HRSG Outlet duct	7日 40日	22/06/11(土)	22/06/18 (土) 22/08/04 (木)		Prepare for preassembly HRSG Outlet duct
Preassembly HRSG Outlet duct Prepare for preasembling Frame 7.9 and 8	40日		22/08/04 (木) 22/07/12 (火)		Preassembly HRSG Outlet duct International Prepare for preasembling Frame 7.9 and 8
Preasembling Frame 7.9 and 8	55日		22/09/14 (水)		Prepare for preasembling Frame 7.9 and 8
HRSG Exhaust duct	148日	22/07/18(月)	23/01/05 (木)		HRSG Exhaust duct.
Preparation of the foundation	3日		22/07/21 (木)		Preparation of the foundation
Chipping and setting packers	15日		22/08/08(月)		Chipping and setting packers
Building the structure for HRSG exhaust du			22/09/22(木)		Building the structure for HRSG exhaust duct
Lifting the exhaust duct Welding each exhaust duct blocks	30日 50日		22/10/27 (木) 22/12/13 (火)		
Insulation work	50日		23/01/05 (木)		Welding each exhaust duct blocks
	50Ц	22/11/03 (/)()	20/01/00 ()()	11400-201	
Preassembling the exhaust duct	60日	22/08/02 (火)	22/10/10(月)	113SF+15日	Preasembling the exhaust duct
Over Head Crane	85日		22/01/21 (金)		Over Head Crane 🗸 🚽 🗸
Check the location of installation	1日		21/11/01 (月)		Check the location of installation
Lifting and setting the rail for OHC	30日		21/12/06(月)		
Prepare for preassembling OHC Unloading OHC material	5日 2日		21/11/04 (木) 21/11/06 (土)	123SF 124SF	Prepare for preassembling OHC
Preassembly OHC (Mech & Elec)	25日		21/12/06 (月)		Preassembly OHC (Mech & Elec)
Lifting and setting Aux. OHC Garter	2日		21/12/07 (火)		Lifting and setting Aux, OHC Garter
Lifting and setting Main OHC Garter	2日	21/12/08 (水)	21/12/09 (木)	125	Lifting and setting Main OHC Garter
Laying temp cable from L11	30日		21/11/18(木)		Laying temp cable from L11
Installing electrical equipment	15日		22/01/03 (月)		Installing elektrical equipment
Power receiving Commissioning & Load test	1日 10日		22/01/10 (月) 22/01/21 (全)		Power receiving
Commissioning & Load test	IUE	22/01/11(火)	22/01/21 (金)	123	Commissioning & Load test
Condenser	306日	21/12/11 (土)	22/12/02 (金)		Condenser
Center line marking	2日		21/12/16 (木)	4SS	
Chipping	6日		21/12/23 (木)		Chipping
Setting packer and base plate	4日		21/12/28 (火)		Setting packer and base plate
Setting temporary rail and SARLIFT for inst			22/01/18 (火)		Setting temporary rail and SARLIFT for installation condenser
(Load test for SARLIFT)	18		22/01/18 (火)		(Load test for SARLIFT)
Assembling the scaffolding around skirt Preparation the lifting tool for the skirt	15日 2日		22/01/12 (水) 22/01/20 (木)		Assembling the scalifolding around skirt
Assembly the Unit carrier	2日		22/01/20(木) 21/12/13(月)		Preparation the lifting tool for the skirt
Assembly the 750tonA/C	1日		22/01/21 (金)		Assembly the 750tonA/C
Delivery date of condenser(Unloading with			21/12/16 (木)		Delivery date of condenser(Unloading with 1250ton)
Remove packing material	3日		22/01/21 (金)	137	Remove packing material
Installation Upper skirt	2日		22/01/24 (月)		Installation Upper skirt
Installation Lower skirt	2日		22/01/26 (水)		Installation Lower skirt
Fit up condenser skirt	3日		22/01/29 (土)		Fit up condenser skirt 🚹
Assembling and welding skirt Remove rail for condenser skirt	8日 1日		22/02/08 (火) 22/01/27 (木)		Assembling and welding skirt
Remove rail for condenser skirt Installation Condenser shell of lower	18		22/01/27(木) 22/01/28(金)		Remove rail for condenser skirt
Installation Condenser shell of upper	18		22/01/28 (金)		Installation Condenser shell of upper
Disassembly the 750tonA/C	1日		22/01/29 (±)		Disassembly the 750tonA/CM
Dismantling SARLIFT and temporary rail	15日		22/02/16 (水)		Dismantling SARLIFT and temporary rain
Assembling the scaffolding around condense	r shell 5日		22/02/11 (金)		Assembling the scaffolding around condenser shell
Welding Condenser shell (outside / 1 layer)	5日		22/02/17 (木)		Welding Condenser shell (outside / 1 laver)
Fit up condenser skirt to condenser shell	3日	22/02/18(金)			Fit up condenser skirt to condenser shell
Installation the monorail of South side	20日 h.cido 4日		22/03/16 (水)		Installation the monoral of South side
Installation the condenser water box of Sou			22/03/21 (月) 22/04/25 (月)		Installation the condenser water box of South side here and the second s
Hand over around condenser to civil worki			22/04/20(11)	107	

 NOTE

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Appendix	J

20th-Oct-2021

Construction Schedule of Unit-12

ID	タスク名	期間	開始日	終了日	先行タスク																				
0						2021年 第2四半其 04月 05月				第4四=			2022年 2022年	第1四半	期。	2	022年 貸 04月	第2四半	期	2	022年	第3四半 08月	明	2022年	
159 🔟	Condenser tube cleaning unit	4日	22/04/26 (火)	22/04/29 (金)	158	04月 05月	06月 07月 08月	09月 10	U.A	113		12月		02月 ondenser					06	Я	0/A	08 A	09月		11
160	Installation the CW pipe	45日	22/04/26 (火)		158									Instal	lation th	e CW	pipe 🎽								
161 🔢	Assembling Exp.J	1日	22/11/21(月)		193,196																			Assembling	
162 163	Welding Exp.J	10日	22/11/22 (火)	22/12/02 (金)	161																			Weldin	ng Exp.J
164	GT/ST/Generator	504日	22/01/12 (*)	23/08/22 (火)						GT		enerato	r -												
165	Setting template for anchor bolts	40日	22/01/12 (水)	22/02/28(月)	166SF	_		Settin	ng tem			hor bolt													
166	Concreteing work by PDC/PY	40日	22/02/28(月)	22/04/15 (金)	167SF									PDC/P											
167	Remove templates	14日	22/04/15 (金)		11SS									Rei	nove te										
168	Center line marking	5日	22/05/02(月)	22/05/06(金)	167	_									Cente		narking								
169 170	Chipping Packer setting	10日 15日	22/05/07(土) 22/05/19(木)	22/05/18 (水) 22/06/04 (土)	168 169												Chipping acker se								
170	Setting the base plate	7日	22/06/06(月)	22/06/13(月)	170												icker se ing the l	-	ate						
172	Setting the bearing case	7日	22/06/14 (火)		171												ting the			•					
173	Lay down pipes under GT	1日	22/06/22 (水)	22/06/22 (水)	172											La	y down i	pipes u	nder G	t 🖌					
174	Lay down pipes under ST	3日	22/06/23 (木)	22/06/25 (土)	173												ay down								
175	IP/LP-MSV Lifting and setting	5日	22/06/18(土)		173FF+1日										IP,		ISV Lifti	-	-						
176 177	Lifting and hanging EB01	1日 1日	22/06/13(月) 22/06/07(小)	22/06/14 (火)	178SF-2日 178SF-7日												ng and h								
178	Unloading the Gantry system for GT Setting the Gantry system for GT	21日	22/06/07 (火) 22/06/16 (木)	22/06/08(水) 22/07/11(月)	1783F=7 L									Unio			try syste Gantry s								
179	Load test for Gantry system	2日	22/07/11 (月)	22/07/13 (7k)	186SF-2日	_									Octuni	-	Load te	-							
180 🏢	Delivery date of Powertrains	1日	22/04/15 (金)	22/04/15 (金)									Deliv	ery date	of Pow	ertrain	s 🔷 04	/15		5					
181	GEN Transformer O/B	18	22/04/15 (金)		180SS									GEN Tra				/15							
182	ST Lower casing Unloaded and store (with OHC)	1日	22/04/16(土)	22/04/16(土)	181	_				ST	Lower	casing l		d and st											
183 184	Generator Unloaded and store GT Unloaded and store	1日 3日	22/04/18(月) 22/04/19(火)	22/04/18(月) 22/04/21(木)	182 183	_							Gene	rator Un											
185	GT & GEN stored at site	63日	22/04/19 (火) 22/05/05 (木)	22/04/21(木) 22/07/18(月)	188SF	-									loaded a		ore d at site								
186	GT O/B (with Gantry)	1日	22/07/15 (金)		13SS									, ai		510101		GT O/E	3 (with	Gantry	0	7/15			
187	Setting the Gantry crane for GEN	1日	22/07/16 (土)	22/07/16 (土)	186											Set	tting the		1						
188	GEN O/B (with Gantry)	1日	22/07/18 (月)		187													GEN O/				17/18			
189	ST Lower casing O/B (with OHC)	18	22/07/20(水)		188FS+1日												T Lower	-							
190 191	Dismantling the Gantry system Lifting and setting ST	15日 31日	22/07/19(火) 22/08/11(木)	22/08/04 (木) 22/09/15 (木)	188 190FS+5日												Disman	itling th			em setting	eT			
192	ST Rotor	18	22/09/09 (金)	22/09/09 (金)	191SS+25日	3													Lituri	ig and :	serring	ST Ro	tor		
193	Final alignment for ST	30日	22/09/10(土)		192															Fir	nal aligr	ment for			
194	ST Upper Casing	1日	22/10/15 (土)	22/10/15 (土)	193																	ST	Upper C	Casing 🥇	
195	HP-MSV lifting and setting	5日	22/09/10(土)	22/09/15(木)	192																	g and set			
196 197	Adjust the gap between Rotor and casing	30日 25日	22/10/17(月)	22/11/19(土)	194												}		Adj	ust the	e gap b	etween R	otor and		
197	Grouting ST Installing accessories	25日 35日	22/11/21(月) 22/11/26(土)	22/12/19(月) 23/01/06(金)	196 208SF-10日	4																	In	Grout Istalling acc	uting ST
199	Installing IPB	30日	22/09/09 (金)	22/10/13 (木)	261SS																I	nstalling I		istalling acc	Jessone
200	First alignment of GT and GEN	50日	22/07/27 (水)	22/09/22 (木)	188FS+7日												First	t alignm	ent of (GT and					
201	Grouting GEN and GT	25日	22/09/23 (金)	22/10/21 (金)	200																	ting GEN			ן
202	GT enclosure (Lower)	20日	22/10/05 (水)	22/10/27 (木)	201SS+10日	3																iT enclos			
203 204	Installting pipes and accessories to GT Assembly slip ring, lead box and accessories to GEN	120日 28日	22/10/22 (土) 22/10/22 (土)	23/03/10 (金) 22/11/23 (水)	201 201	_												Accor				es and ac x and acc			
205	Assembly 3S clutch	20日	22/11/21(月)		193,196													Assen	noiy sii	y ring, i				ssembly 3S	S clutch
206	Final alignment	30日	22/12/14 (水)		205																				Final ali
207	Joint coupling	10日	23/01/18 (水)	23/01/28 (土)	206																				
208	Lube oil flushing	75日	23/01/18 (水)	23/04/14 (金)	206																				
209 210	Installation GT enclosure	40日 50日	22/12/31 (土)	23/02/15 (水) 23/01/28 (土)	206SS+15日 197SS+10日																				allation G
210	Installation ST enclosure Door fan test	2日	22/12/02(金) 23/04/19(水)		19755+10日 212SF-2日																		Inst	tallation ST	enclos
212	Blowing out	10日	23/04/24 (月)		213SF-1日	_																			
213	First Fire	1日	23/05/06 (土)		74FS+122 E																				
214	Remove temporary strainer	20日	23/07/31 (月)	23/08/22 (火)	21FS+45日																				
215		074 5	00/00/15/	00/04/00/11																					
216 217	GT Air inlet	271日 2日	22/06/17(金) 22/09/05(月)	23/04/29 (土) 22/09/07 (水)	218SF	-												GT Air	r inlet						
217	Center line marking Setting the base plate	2日 10日	22/09/05(月) 22/09/07(水)	22/09/07(床) 22/09/19(月)	2185F 220SF	-														C C	enter l ting th	ine markir e base pla			
219 1	Preassembly the Air inlet duct	80日 80日	<u>22/06/17(金)</u>												Pr	eassen	nbly the	Air inle	t duct	Jet	ang un	- nase his			
220	Lifting and installation the Air inlet duct (Vertical)	40日	22/09/19 (月)													[n the /	Air inle	t duct (Ve	:rtical)		
221	Welding Air inlet duct (Vertical)	50日	22/09/30 (金)	22/11/26 (土)		3														Weldi	ng Air i	nlet duct	(Vertical	at)	
222	Lifting and installation the Air inlet filter	45日	22/11/28(月)	23/01/18 (水)																	Li	fting and	nstallati	ion the Air i	inlet filt
223 224	Welding Air inlet filter Lifting and assembly the Air inlet manifold	70日 4日	22/12/09(金) 22/09/30(金)	23/02/28 (火) 22/10/05 (水)	222SS+10日 202SF														ein~			A 14 141	+	Welding A	Air inlet
224	Lifting and assembly the Air inlet manifold Lifting and installation the Air inlet duct (Horizontal)	4日 8日	22/09/30 (金) 22/10/05 (水)			-											1.4					le Air inle nlet duct i			
226	Automatic roller shutter	2日	22/10/14 (金)	22/10/15 (±)														₈ anu				Automatic		· · · · · · · · · · · · · · · · · · ·	
227	Welding Air inlet duct (Horizontal)	25日	22/10/14 (金)		225															We		r inlet du			
228 💷	Filter element installation	5日	23/04/24 (月)	23/04/29 (土)	20SF-7日																				
229		404 5 -	04/44/45/15	00/00/15/15																					
230 231	Auxiliary Equipment (O/B) 1&3 around Power Train & North east of MSB	421日? 224日		23/03/15 (水) 22/10/03 (月)				liary Equipment 3 around Power			rth	+	B												
231	Chipping and packer setting	224日 10日		22/10/03(月)	8SS	-	184					t of MS (er setti													
233	Seal oil unit	2日	22/06/01 (水)	22/06/03 (金)	234SF	-			2,10	, ₅ al							Se	al oil un	it 🔥						
234	H2 cooler	2日	22/06/03 (金)	22/06/06 (月)	235SF													H2 cool							
	Platform under the GEN	5日	22/06/06(月)	22/06/11(土)	178SF-4日					1						Platfo	rm unde	r the G							
235						- 1											11 4.145								
235 236 237	Temp hanging Main Steam Piping with scaffolding Sampling system	25日 2日	22/02/11(金)	22/03/11 (金) 22/02/03 (木)	240			Temp hangin	ng Mai	iin Stea		ing with Sampling													

 NOTE

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

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

3.Considered the affection of KURE's schedule belows; i) Because of delaying the side casing,installation Inlet duct is postponed. ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule.

Appendix	τI

20th-Oct-2021 Rev.5a
 2023年

 4四半期
 2023年 第1四半期
 2023年 第2四半期
 2023年 第3四半期

 11月
 12月
 01月
 02月
 03月
 04月
 05月
 06月
 07月
 08月
 p.J Joint coupling Lube oil flushing Door fan test K Blowing out First Fire ove temporary strainer filter et fil Filter element installation 📕 3

Construction Schedule of Unit-12

ID	タスク名	期間	開始日	終了日	Rev 先行タスク
		71111		** 1 1	
•					2022年 2021年第2四半期 2021年第3四半期 2021年第4四半期 2022年第1四半期 2022年第1回半期 2022年第2四半期 2022年第3四半期 2022年第4四半期 2023年第1四半期 2023年第1四半期 2023年第2四半期 2023年第3四半 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月
238	Light oil drain unit	2日	22/02/04 (金)	22/02/05 (土)	04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月
239	GT purge air compressor	2日		22/02/08 (火)	
240	GT purge are reservoir	2日		22/02/10 (木)	239 GT purge are reservoir K
241	Light oil flow divider unit & platform	2日		22/09/24 (土)	
242 243	GT Purge air unit Fuel gas unit	2日 2日		22/09/24(土) 22/10/03(月)	
243		211	22/10/01 (土)	22/10/03 (Д)	241FS+5日
245	2 MSB Inside North-West	233日?	22/01/15 (土)	22/10/13 (木)	2 MSB Inside North-West
246	Temporary floor above ST Blowdown tank	15日		22/02/01 (火)	
247	Chipping and packer setting	10日		22/02/07(月)	
248 249	Preparation hauling equipment Condenser water box	4日 3日		22/02/15 (火) 22/02/18 (金)	
250	Closed cooling water pump	2日		22/02/21 (月)	
251	Condenser vacuum pump	2日		22/02/23 (水)	
252	Dismantling hauling equipment	2日		22/02/25 (金)	
253 254	ST blow down tank	1日 1日		22/02/24 (木) 22/02/25 (金)	
254	GT casing cooling fan GT compressor blade washing device	1日		$22/02/23(\pm)$ $22/02/26(\pm)$	
256	Building MSB North structure	40日		22/05/31 (火)	166
257	ST Blow down tank structure	20日	22/04/30 (土)	22/05/23 (月)	
258	Pre-assembly structure for Air inlet duct access	30日		22/06/07 (火)	259SF Pre-assembly structure for Air inlet duct access
259 260	Building structure for Air inlet duct access Closed cooling water stand pipe	2日 10日		22/06/08(水) 22/06/20(月)	
260	Installing IPB	30日		22/06/20(月) 22/10/13(木)	190FS+30 E
262	ST Blowdown pit sump pump	2日		22/02/25 (金)	253SS ST Blowdown pit sump pump
263					
264	6 MSB Inside South-West	216日	22/02/11 (金)		6 MSB Inside South-West
265 266 III	Chipping and packer setting Condensate extraction pump	10日 2日		22/03/10(木) 22/03/12(土)	
267	CEP access stair	1日		22/03/12(工) 22/03/11(金)	
268	Trip valve unit	1日		22/03/12 (土)	269SS
269 🔢	Control oil unit	1日		22/03/12 (土)	
270	Building MSB South structure Gland condenser and fan	25日		22/03/11(金)	
271 • 272	Plant and Instrument air receiver	1日 2日		22/03/01 (火) 22/10/18 (火)	
273	Plant air compressor	2日		22/10/18 (火)	
274	Instrument air dryer	2日	22/10/19 (水)	22/10/20 (木)	
275	CEP pit sump pump	2日		22/03/15 (火)	
276	Condenser hotwell pit sump pump	2日	22/03/16 (水)	22/03/17 (木)	275 Condenser hotwell pit sump pump
277 278	7 Lube oil room	306日	22/03/05 (土)	23/02/24 (金)	7 Lube oil room
279	Chipping and packer setting	10日		22/03/16 (水)	
280	Disassemble structure	1日		22/03/17 (木)	
281 🔢	Lube oil reservoir	1日		22/03/18 (金)	280 Lube oil reservor
282	Assemble structure Open floor	1日 15日		22/03/18 (金) 22/04/02 (土)	281SS 280SS
283 284	Lube oil filter with structure	2日		22/04/02(上)	280SS 283SS+2日 Lube oil filter with structure
285	Lube oil cooler	1日		22/03/19 (土)	
286	JOP for GEN	2日		22/03/23 (水)	284 JOP for GEN
287	JOP for ST	2日		22/03/23 (水)	
288 289	Lube oil purifier unit Lube oil transfer pump	2日 2日		22/03/23 (水) 22/03/23 (水)	
289	Lube oil accumulator	1日		22/03/23 (水)	
291	Lifting piping into Lube oil room	20日	22/03/23 (水)	22/04/14 (木)	290 Lifting piping into Lube oil room
292	TCA filter	1日		22/09/10(土)	
293 III 294	TCA filter support	8日	23/02/16(木)	23/02/24 (金)	209 TCA filter support
294	9 East of MSB	163日	22/02/01 (火)	22/08/09 (水)	9 East of MSB
296	Chipping and packer setting	15日		22/02/17(木)	
297 💷	Light Oil main pump unit	2日		22/02/19 (土)	296 Light Ol main pump unit 🛴
298	GT light oil last chance filter	2日		22/02/22 (火)	
299 III 300	GT light oil drain tank unit GT fuel gas flow meter	2日 2日		22/02/24 (木) 22/02/26 (土)	
301	Pipe rack from L11 to L12 (except around EB02)	60日		22/02/20(工)	
302	Temp hanging Main Steam Piping	15日		22/05/10 (火)	
303 💷	Building structure for EB02	6日		22/04/06 (水)	
304	Preassembly EB02	20日 2日		22/04/07(木) 22/04/08(金)	
305 306	Lifting and installation EB02 Sound proof around EB02	2日 20日		22/04/08(亚) 22/05/16(月)	
307	Pipe rack from L11 to L12 (Above EB02)	30日		22/06/20(月)	
308	GT enclosure ventilation fan	2日	22/08/05 (金)	22/08/06 (土)	190 GT enclosure ventilation fan 🖍
309	Oil mist separator unit	2日		22/08/09 (火)	
310	Oily drain pit sump pump	2日 2日		$22/02/12(\pm)$	
311 312	Chemical drain pit sump pump	20	22/02/10(木)	22/02/12 (土)	301SF Chemical drain pit sump pump K
313	10 North of HRSG	343日	21/11/10 (水)	22/12/14 (水)	10 North of HRSG
314	KURE pipe rack (North on HRSG)	40日	21/11/10 (水)	21/12/25 (土)	31FS+2日 KURE pipe rack (North on HRSG)
315	Chipping and packer setting	15日		21/12/02(木)	
316	Lower Fuel gas heater	2日	21/12/03(金)	21/12/04 (土)	315 Lower Fuel gas heater K
<u>NOTE</u> 1. The key da	ate is subjected in the KOM held on 30th-Sep.				3.Considered the affection of KURE's schedule belows; i) Because of delaying the side casing,installation Inlet duct is postponed.

The key date is subjected in the KOM held on 30th-Sep.
 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. ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule.

Construction Schedule of Unit-12

1	タスク名	期間	開始日	終了日	先行タスク																					
					2021年 第2回半期 2021年 第	2四半期	2021	年 第4四半	48	<u>2022</u> 年	第1四半期	2022年 学	50四半期		2022年	第3四半期		2022年 第	的四半	田	2023	3年	口卡节	2021	在 筆2 四 半 押	00004
0					2021年 第2四半期 2021年 第 04月 05月 06月 07月	08月 09	9月 10	月 11月	12月		第1四半期 02月 03月	2022年 第 04月	52四千朔 05月	06月	2022年 07月	第3四半期 08月	09月	2022年 第 10月	54四千 11月	771 12月	2023	3年 第1四 月 02	∃十期 2月 0:	2023 03月 04	8年 第2四半期 月 05月	2023年 06月 07月
	Support structure for FGH	5日		21/12/10(金)	316	S	upport stru	icture for F	GH 🛼																	
	Upper Fuel gas Heater	2日 2日		21/12/13 (月) 21/12/15 (水)				Fuel gas He																		
	GT water injection system Feed water pump	2日 2日		21/12/15(水) 21/12/17(金)				injection sy																		
	Chemical dosing system	2日		21/12/17(壶) 21/12/20(月)				Feed water ical dosing s																		
	FWP sun shade	50日		22/02/22 (火)			Onenn	-	sun shade																	
	FGH Maintenance platform	15日		22/02/16 (水)	322SS+30日				Maintenance																	
	Reserved feed water tank	2日			322SS+30日				rved feed w																	
	HRSG Topping up pump	1日		22/02/02 (水)					RSG Topping																	
	LP-ECO Recirculation pump	2日	22/07/07 (木)	22/07/08 (金)	63							LP-ECO	Recirculat	ion pump	-1											
	Dry air system for HRSG	2日	22/07/07 (木)	22/07/08 (金)	326SS							Dry ai	ir system f	or HRSG												
-	HRSG blowdown pit sump pump	2日	22/01/15 (土)	22/01/17(月)			HRS	G blowdown	n pit sump p	pump 📒																
	HRSG Washing water sump pump	2日	22/12/13 (火)	22/12/14 (水)	75FS+10日											HR	S <mark>G</mark> Wasł	ning water	sump p	oump						
	12 CCW cooler area	59日		22/05/05 (木)							ler area															
	Chipping and packer setting	10日							1 1 -		er setting															
	Sea water booster pump	4日		22/03/14(月)							ooster pump															
	CW vent pump and seal water booster	4日		22/03/14(月)				CW ve	ent pump an		ater booster															
	CCW cooler	4日 25日		22/03/14(月)																						
	CCW cooler sun shade Sea water sump pump	25日 4日		22/05/05 (木) 22/03/19 (土)							CW cooler sun shad		•													
	Sea water sump pump	-	22/00/10(/jj)	22/00/10(1)						Sea wa	.er sump pump															
3	TCA cooler	2日	22/11/04 (金)	22/11/05 (土)	220												т	CA cooler	*							
-				22/11/03(土)									Dismantle	the tem	porary e	lope at sout			-							
	CO2 Fire fighting	50日		23/03/15 (7k)															C	Ø <mark>2 Fire f</mark> i	fighting					
	UTAC system	90日		23/03/15 (水)														UTAC	systen		J B					
	Silencer at MSB roof	3日		22/12/21 (水)																B roof						
	LPS to LMX LO transfer pump for U–12 (if necessary)	2日	22/10/01 (土)	22/10/03 (月)								LPS to	LMX LO t	ansfer pi	Imp for	U−12 (if nec	essary)									
	Intake No5 area	163日?														Intake No										
	Marking center line	10日														Marking cen		~								
	Chipping and packer setting	20日		22/11/05(土)	349SF										Chip	ping and pac		-								
	Setting the baseplate	10日		22/11/17(木)	350SF											Set	ting the	baseplate								
	Grouting	20日		22/12/10(土)														Grou	5							
	Circulating water pump	20日		23/01/02(月)	15FS+60日 251													rculating v								
	Circulating water pump outlet piping	25日 5日		23/01/31 (火)																outlet pipir	ing					
	Auxiliary circulation water pump	5日 60日		22/12/16(金) 23/01/13(金)	351SS+1日 348													rculation	V	oump						
	Electro chlorination plant Cathodic protection	60日		23/01/13(金) 23/01/25(水)												Electro	cnlorina	tion plant		odic aut	antiar					
	Screen system	10日		23/01/25 (水) 22/11/22 (火)													Same	n system	*	odic prote	ection 🗖					
	Screen system Screen wash water pump	2日		22/11/22 (又) 22/12/19 (月)														n system reen was		numn 🕇	•					
	CW system commissioning (Target)	50日		23/04/08 (±)																commissi		arget)				
				,														2								
	New Gantry crane for CW pump	85日	23/04/10(月)	23/07/17 (月)																	New Ga	antry crane	ne for CW	W pump 📘		
	Assembling New gantry crane	45日	23/04/10(月)	23/05/31 (水)	346																Asse	embling Ne	Vew gantr	ry crane 🎽		
	Test operate for New gantry crane	40日	23/06/01 (木)	23/07/17(月)	361																	Tes	est opera	ate for New	gantry crane	
	11 Tranceformer area	317日	22/03/11 (金)								former area															
	Preparation work in the area	5日		22/03/16 (水)							k in the area															
	Setting the channel base for Station Setting the channel base for Unit TX and others Txs	25日 25日		22/04/08 (金) 22/05/02 (月)					-		e for Station															
	Setting the channel base for Unit TX and others TXS Station transformer	25日		22/05/02(月) 22/04/11(月)				setting the	channel bas	se for Un	it TX and others Txs Station transform		ון ון													
	Assembly Station Tx	2日 50日		22/04/11(月) 22/06/08(水)							Assembly Station															
	Unit transformer	2日		22/05/04 (水)							Init tre	insformer														
	Assembly Unit Tx	50日		22/07/19 (火)								sembly Un	it Tx													
	SFC transformer	2日		22/05/04 (水)								insformer														
		2日	22/05/03 (火)	22/05/04 (水)	367						Excitation tra		r													
	Excitation transformer	7日		22/07/09 (土)							Assembly th	ne accesso	ries f or sn	all TXs												
	Assembly the accessories for small TXs		00 (00 (11 ())	22/04/15(金)				Prepa	aration for C		r transformer															
	Assembly the accessories for small TXs Preparation for Generator transformer	30日			18155		1.1			Gen	erator transformer O	/в														
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B	30日 5日	22/04/15 (金)	22/04/20 (水)																						1
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs	30日 5日 70日	22/04/15 (金) 22/04/21 (木)	22/07/11 (月)	376				Asse	embly the	accessories for GEN															
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit)	30日 5日 70日 20日	22/04/15(金) 22/04/21(木) 22/07/11(月)	22/07/11 (月) 22/08/02 (火)	376 374				Asse	embly the	Assembly the	support for														
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit)	30日 5日 70日 20日 60日	22/04/15(金) 22/04/21(木) 22/07/11(月) 22/07/14(木)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水)	376 374 371SS+45日				Asse	embly the	Assembly the Li	support for fting Bus d	uct for Tx	(Gen, Un	it)											
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx)	30日 5日 70日 20日 60日 50日	22/04/15(金) 22/04/21(木) 22/07/11(月) 22/07/14(木) 22/07/18(月)	22/07/11(月) 22/08/02(火) 22/09/21(水) 22/09/13(火)	376 374 371SS+45日 376SS+80日				Asse	embly the	Assembly the	support for fting Bus d	uct for Tx	(Gen, Un	it)		De	ver recei	inc							
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving	30日 5日 70日 20日 60日 50日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火)	22/07/11(月) 22/08/02(火) 22/09/21(水) 22/09/13(火) 22/11/15(火)	376 374 371SS+45日 376SS+80日				Asse	embly the	Assembly the Li	support for fting Bus d	uct for Tx	(Gen, Un	it)			ver receiv Sun Shade	-	il						
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx)	30日 5日 70日 20日 60日 50日	22/04/15(金) 22/04/21(木) 22/07/11(月) 22/07/14(木) 22/07/18(月)	22/07/11(月) 22/08/02(火) 22/09/21(水) 22/09/13(火) 22/11/15(火)	376 374 371SS+45日 376SS+80日				Asse	embly the	Assembly the Li	support for fting Bus d	uct for Tx	(Gen, Un	it)			ver receiv Sun Shade	-	il				•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving	30日 5日 70日 20日 60日 50日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/11/15 (火) 23/03/15 (水)	376 374 371SS+45日 376SS+80日			Electr			Assembly the Li	support for fting Bus d	uct for Tx	(Gen, Un	it)				-	il				•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil	30日 5日 70日 20日 60日 50日 1日 90日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/11/15 (火) 23/03/15 (水) 23/02/28 (火)	376 374 371SS+45日 376SS+80日			Electr	Asse ric & Instrur		Assembly the Li Li Filling 275kV ca	support for fting Bus d	uct for Tx	(Gen, Un	it)				-	il				•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument	30日 5日 70日 20日 60日 50日 1日 90日 349日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/18 (月) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/01/18 (火)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/01/15 (火) 23/03/15 (水) 23/02/28 (火) 22/08/29 (月)	376 374 371SS+45日 376SS+80日		Carry			ment F	Assembly the Li	support for fting Bus d	uct for Tx	(Gen, Un	it)				-	il				•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels	30日 5日 70日 20日 60日 50日 1日 90日 349日 180日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/01/18 (火) 22/02/01 (火)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/01/15 (火) 23/03/15 (水) 23/02/28 (火) 22/08/29 (月)	376 374 371SS+45日 376SS+80日		Carry		ric & Instrur to the electu	ment I Panels trical roon	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit	uct for Tx	(Gen, Un	it)				-	il				•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels Carry in panels to the electrical room	30日 5日 70日 20日 60日 50日 1日 90日 349日 180日 103日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/01/18 (火) 22/02/01 (火)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/11/15 (火) 23/03/15 (水) 23/02/28 (火) 22/08/29 (月) 22/05/31 (火) 22/05/30 (月)	376 374 371SS+45日 376SS+80日		Carry		ric & Instrur to the electu	ment I Panels trical roon	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit	uct for Tx h oil (St T	(Gen, Un x & GEN	it) Tx)				-	il				•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels Carry in panels to the electrical room Carry in panels to the HRSG electrical room	30 E 5 E 70 E 20 E 60 E 50 E 1 E 90 E 349 E 180 E 103 E 25 E	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/02/01 (火) 22/02/01 (火) 22/02/01 (火) 22/05/02 (月)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/11/15 (火) 23/03/15 (水) 23/02/28 (火) 22/08/29 (月) 22/05/31 (火) 22/05/30 (月) 22/08/29 (月)	376 374 371SS+45日 376SS+80日		Carry		ric & Instrur to the electu Carry	ment I Panels trical roon	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit	uct for Tx h oil (St T	(Gen, Un x & GEN	it) Tx)				-	il		1		-		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels Carry in panels to the electrical room Carry in panels to the CWP electrical room	30 日 5日 70日 20日 60日 1日 90日 349日 180日 103日 25日 25日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/02/01 (火) 22/02/01 (火) 22/02/01 (火) 22/05/02 (月) 22/08/01 (月)	22/07/11 (月) 22/08/02 (火) 22/09/21 (大) 22/09/13 (火) 22/11/15 (火) 23/03/15 (大) 23/02/28 (火) 22/08/29 (月) 22/05/31 (火) 22/05/30 (月) 22/08/29 (月) 23/01/17 (火)	376 374 371SS+45日 376SS+80日		Carry	/ in panels t	ric & Instrur to the electu Carry	ment Panels Panels trical room r in panels	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit ical room r in panels	uct for Tx h oil (St T	(Gen, Un x & GEN	it) Tx)				-	il	1	1		-		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels Carry in panels to the electrical room Carry in panels to the HRSG electrical room Carry in panels to the CWP electrical room Cable tray	30 日 5日 70日 20日 60日 1日 90日 349日 180日 103日 25日 25日 313日	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/18 (月) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/02/01 (火) 22/02/01 (火) 22/02/01 (火) 22/02/01 (尺) 22/05/02 (月) 22/08/01 (月) 22/01/18 (火)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/11/15 (火) 22/03/15 (水) 23/02/28 (火) 22/08/29 (月) 22/05/31 (火) 22/05/30 (月) 22/08/29 (月) 23/01/17 (火) 22/04/20 (水)	376 374 371SS+45日 376SS+80日		Carry	/ in panels t	ric & Instrur to the electi Carry Cable	ment Panels Panels trical room in panels	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit ical room r in panels	uct for Tx h oil (St T	(Gen, Un x & GEN	it) Tx)				-		1	1		-		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels Carry in panels to the electrical room Carry in panels to the HRSG electrical room Carry in panels to the CWP electrical room Cable tray in Electrical room	30 E 5 E 70 E 20 E 50 E 50 E 1 E 90 E 349 E 180 E 103 E 25 E 25 E 25 E 25 E 25 E 26 E 130 E	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/02/01 (火) 22/02/01 (火) 22/02/01 (火) 22/02/01 (月) 22/05/02 (月) 22/01/18 (火)	22/07/11 (月) 22/08/02 (火) 22/09/21 (水) 22/09/13 (火) 22/01/15 (火) 23/03/15 (水) 23/02/28 (火) 22/08/29 (月) 22/05/31 (火) 22/05/30 (月) 23/01/17 (火) 22/04/20 (木) 22/04/30 (土)	376 374 371SS+45日 376SS+80日		Carry	/ in panels t	ric & Instrur to the electi Carry Cable	ment Panels Panels trical room in panels	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit ical room in panels	uct for Tx h oil (St T	(Gen, Un x & GEN	it) Tx)				-		1	1		•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels Carry in panels to the electrical room Carry in panels to the HRSG electrical room Cable tray in Electrical room on L11 rink bridge in MSB around HRSG	30 E 5 E 70 E 20 E 50 E 1 E 90 E 349 E 180 E 103 E 25 E 25 E 313 E 80 E 26 E 130 E 180 E	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/14 (木) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/02/01 (火) 22/02/01 (火) 22/02/01 (火) 22/05/02 (月) 22/08/01 (月) 22/01/18 (火) 22/01/18 (火) 22/03/14 (月) 22/03/14 (月) 22/05/02 (月)	22/07/11 (月) 22/08/02 (火) 22/09/21 (木) 22/09/13 (火) 22/11/15 (火) 23/03/15 (木) 22/08/29 (月) 22/08/29 (月) 22/05/31 (火) 22/08/29 (月) 22/08/29 (月) 22/08/29 (月) 22/04/20 (木) 22/04/20 (木) 22/04/30 (土) 22/08/11 (木) 22/11/26 (土)	376 374 371SS+45日 376SS+80日		Carry	/ in panels t	ric & Instrur to the electi Carry Cable	ment Panels Panels trical room in panels	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit ical room r in panels	uct for Tx h oil (St T	(Gen, Un x & GEN	it) Tx) al room		Building S	Sun Shade	-		1	1		•		
	Assembly the accessories for small TXs Preparation for Generator transformer Generator transformer O/B Assembly the accessories for GEN TXs Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit) Filling 275kV cable box with oil (St Tx & GEN Tx) Power receiving Building Sun Shade by civil Electric & Instrument Panels Carry in panels to the electrical room Carry in panels to the electrical room Carry in panels to the CWP electrical room Carry in panels to the CWP electrical room Carl in Electrical room on L11 rink bridge in MSB	30 E 5 E 70 E 20 E 50 E 50 E 1 E 90 E 349 E 180 E 103 E 25 E 25 E 25 E 25 E 25 E 26 E 130 E	22/04/15 (金) 22/04/21 (木) 22/07/11 (月) 22/07/18 (月) 22/07/18 (月) 22/11/15 (火) 22/12/01 (木) 22/02/01 (火) 22/02/01 (火) 22/02/01 (火) 22/05/02 (月) 22/08/01 (月) 22/01/18 (火) 22/04/01 (金) 22/03/14 (月)	22/07/11 (月) 22/08/02 (火) 22/09/21 (火) 22/09/13 (火) 22/11/15 (火) 23/03/15 (火) 23/02/28 (火) 22/05/31 (火) 22/08/29 (月) 22/08/29 (月) 22/08/29 (月) 22/08/29 (月) 22/04/20 (火) 22/04/20 (火) 22/04/20 (大) 22/04/30 (土) 22/04/31 (大) 22/04/30 (土) 22/04/31 (大) 22/04/31 (大)	376 374 371SS+45日 376SS+80日		Carry	/ in panels t	ric & Instrur to the electi Carry Cable	ment Panels Panels trical room in panels	Assembly the Li Filling 275kV ca	support for fting Bus d ble box wit ical room in panels	uct for Tx h oil (St T	(Gen, Un x & GEN	it) Tx) al room		Building S	Sun Shade	-		1	1		•		

The key date is subjected in the KOM held on 30th-Sep.
 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. ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule.

AIHEI DENGY	(O KAISHA,LTD.					Construction Schedule of Unit-12
	タスク名	期間	開始日	終了日	先行タスク	
						2022年 2023年 20238
0						2021年第2四半期 2021年第3四半期 2021年第4四半期 2022年第1四半期 2022年第2四半期 2022年第3四半期 2022年第4四半期 2023年第1四半期 2023年第2四半期 2023年 04月 05月 06月 07月 08月 09月 10月 11月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月
96	Cabling	313日	22/03/01 (火)	:) 23/02/28 (火))	
7	in Electrical room	120日) 22/07/18(月)		in Electricat room
8	in MSB MSB to HRSG	200日 200日) $23/02/18(\pm)$		
9 111	around HRSG	120日	22/07/01 (金) 22/10/12 (水)) 23/02/18(土)) 23/02/28(火)		MSB to HRSG
1	around Intake No5	130日) $\frac{23}{02} \frac{11}{11} (\pm)$		around Intake No5
2	Instrument	283日	22/04/01 (金)	:) 23/02/24 (金))	Instrument
)3 🏢	Install Support	184日	22/04/01 (金)			Install Support
)4 🔢	Piping work	220日	22/06/01 (水)			Fiping work
15 III 16 III	Inside GT & ST	115日 205日) 23/02/11(土)		Inside GT & ST
)7	Adjust each measurement	205日	22/07/01(壶)) 23/02/24 (金)	,	Adjust each measurement
08	Piping	359日	22/03/01 (火)) 23/04/24 (月))	Piping
09	Main Piping	221日	22/03/12 (土)	:) 22/11/24 (木))	Main Piping
10 🔢	Around HRSG	100日	22/07/19(火)			Around HRSG
1	North side of MSB	150日	22/06/01 (水)			North side of MSB
2 🔢 3 🔢	South side of MSB (around gland condenser) Lead piping	150日 60日	22/03/12(土) 22/09/16(金)			South side of MSB (around gland condenser)
4	BOP for lube oil and cooling	250日		·) 22/12/16 (金)		
5 💷	North side of MSB (around CCW)	250日) 22/12/16(金)		
6 🏢	South side of MSB (around Lube oil reservoir)	230日) 22/12/14 (水)		South side of MSB (around Lube oil reservoir)
7	Others BOP	200日		:) 22/12/12 (月)		Others BOP
18 🔢 19 🖬	Others BOP Assembly the blowing out piping	200日 50日) 22/12/12(月)) 23/04/24(月)		Others BOP
20	Assembly the blowing out piping	ло Ц	20/02/24(亚)	20/04/24 (月)	21201	Assembly the blowing out piping
21	Crane	459日	21/10/01 (金)	23/03/20 (月))	Crane
22 💷	Assembly 1250C/C	10日	21/11/25 (木)			Assembly 1250C/C
23	Operate 1250tonC/C for TOHC	8日	21/12/06(月)			Operate 1250tonC/C for TOHC
24 25	Operate 1250tonC/C for HRSG Operate 1250tonC/C for GT Air inlet	189日 40日	21/12/30(木) 22/09/19(月)) 22/08/06(土)) 22/11/03(木)		Operate 1250tonC/C for HRSG
6	Operate 1250tonC/C for HRSG roof	40日	22/09/19(月)			Operate 1250tor C/C for GT Air inlet
7	Dismantling 1250tonC/C	10日	22/11/04 (金)			Dismantling 1250tonC/C
8	Assembly 400tonC/C	5日	22/04/19 (火)) 22/04/23 (土)	82SS	Assembly 400tonC/CP
9	Operate 400tonC/C	44日	22/04/25(月)			Operate 400tonC/C
0	Dismantling 400tonC/C	4日 1日	22/06/15(水)			Dismantling 400tonC/C 🔫
81 82	Assembly 750tonA/C for Condenser Operate 750tonA/C for Condenser	14日	22/01/21(金) 22/01/21(金)			Assembly 750tonA/C for Condenser
33	Dismantling 750tonA/C for Condenser	1日) 22/01/29(土)		Dismantling 750tonA/C for Condenser
4	250ton A/C (HRSG and HRSG exhaust)	391日	21/10/01 (金)			250ton A/C (HRSG and HRSG exhaust)
85 🛄	220tonA/C (Unloading & CWP)	380日	21/12/01 (水)			220tonA/C (Unloading & CWP)
36 37 🎫	220tonA/C (GT Inlet duct) 120tonA/C (Unloading & UTAC)	60日 380日) 23/01/30(月)) 23/03/20(月)		220tonA/C (GT Inlet duct)
37	120tonA/G (onloading & 01AG)	300 日	22/01/01 (土)	23/03/20 (H)	/	120tonA/C (Unloading & UTAC)
39	Equipment for heavy lifting	202日	21/12/13 (月)) 22/08/04 (木))	Equipment for heavy lifting
40	SARLIFT	53日		22/02/16 (水)		SARLIFT I I I I I I I I I I I I I I I I I I
41	Assembly the rail for SARLIFT	20日) 22/01/08(土)		Assembly the rail for SARLIFT
42 43	Assembly the SARLIFT proper Dismantling the SARLIFT	18日 15日) 22/01/29(土)) 22/02/16(水)		Assembly the SARLIFT proper Dismantling the SARLIFT
4	Gantry system	43日		; 22/08/04 (木)		Gantry system
15	Assembly the Gantry for powertrain	21日) 22/07/09 (±)	•	Assembly the Gantry for powertrain
46	Disassembly the Gantry	15日) 22/08/04 (木)		Disassembly the Gantry
17 18	Unit carrier	189日) 22/07/20(水)		
9	For Condenser Preparation for transportation the Condenser	5日 2日) 21/12/17 (金)) 21/12/15 (水)		For Condenser
i0	Transportation the Condenser	2日) 21/12/16(木)) 21/12/16(木)		Transportation the Condenser
1	Disassembling Unit carrier	1日) 21/12/17 (金)		Disassembling Unit carrier
2	For Tube bundle #1	6日		22/05/05 (木)		For Tube bundle #1
3	Assembling Unit carrier for Tube Bundle	2日) 22/05/02(月)		Assembling Unit carrier for Tube Bundle
5	Transportation the Tube Bundle part1 Disassembling Unit carrier	3日 1日) 22/05/04 (水)) 22/05/05 (木)		Transportation the Tube Bundle part The Disassembling Unit carrier
5	For Tube bundle #2	8日		22/05/03 (木) 22/05/21 (土)		For Tube bundle #2
7	Assembling Unit carrier for Tube Bundle	2日	22/05/13(金)			Assembling Unit carrier for Tupe Bundle
3	Transportation the Tube Bundle part2	5日	22/05/16 (月)			Transportation the Tube Bundle part2
9	Disassembling Unit carrier	1日) 22/05/21(土)		Disassembling Unit carrier
D 1	For Unloading Powertrains Assembling Unit carrier for Power Train	8日 2日		22/04/21 (木) 22/04/15 (金)		For Unloading Powertrains
2	Transportation the Transformer	2日	22/04/13(水) 22/04/15(金)			Assembling Unit carrier for Power Train
3	Transportation the ST lower casing	1日) 22/04/16 (土)		Transportation the ST lower casing
4	Transportation the Generator for storing	1日	22/04/18 (月)			Transportation the Generator for storing
5	Transportation the Gas Turbine for storing	1日) 22/04/19(火)		Transportation the Gas Turbine for storing
6	Disassembling the Unit carrier	2日) 22/04/21(木)		
67 68	For Installation of GT and GEN Assembling Unit carrier for Power Train	7日 2日		() 22/07/20(水)) 22/07/15(金)		For Installation of GT and GEN
	Transportation the Gas Turbine for storing	2日) 22/07/15(金)) 22/07/15(金)		Assembling Unit carrier for Power Train
9				, e,, ie (<u>w</u>)		Transportation the Generator for storing
i9 '0	Transportation the Generator for storing	1日	22/07/18(月)) 22/07/18(月)	188SS	Transportation the Generator for storing/
		1日 1日) 22/07/18(月)) 22/07/20(水)		Transportation the ST lower casing

 NOTE
 3.Considered the affection of KURE's schedule belows;

 1. The key date is subjected in the KOM held on 30th-Sep.
 i) Because of delaying the side casing,installation Inlet duct is postponed.

 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.

20th-Oct-2021

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2018, 2019, 2020 & 2021

MM.YYYY		Act	ual Quanti	ties of Inert (C&D Materia	lls Generated	Monthly		Actual Q	uantities of N	lon-inert C&I	D Materials	Generated	Monthly
	Exc	avated Mate	erials		Non	-excavated Ma	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg
Jul 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2018	3160.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.87
Dec 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.67
Jan 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 2019 Mar 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.66	0.00	0.00	0.00	0.60	0.00
Apr 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00	19.09
May 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	59.75
Jun 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.64
Jul 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66
Aug 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.31
Oct 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.109	0.00	0.00	4.76
Nov 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.87
Dec 2019	0.00	0.00	0.00	0.00	0.00	10226.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.19
Jan 2020	0.00	0.00	0.00	0.00	0.00	7981.09	0.00	0.00	0.00	0.00	0.157	0.00	0.00	26.89
Feb 2020	0.00	0.00	0.00	0.00	0.00	8782.98	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Mar 2020	0.00	0.00	0.00	0.00	0.00	20252.12	0.00	0.00	0.00	0.00	0.000	0.00	0.00	78.96
Apr 2020	0.00	0.00	0.00	0.00	0.00	12976.86	0.00	0.00	8.30	0.00	0.000	0.00	0.00	68.75
May 2020	0.00	0.00	0.00	0.00	0.00	20203.01	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Jun 2020	0.00	0.00	0.00	0.00	0.00	28030.33	0.00	0.00	0.00	0.00	0.000	0.00	0.00	58.49
Jul 2020	0.00	0.00	0.00	0.00	0.00	12481.37	0.00	0.00	0.00	0.00	0.000	0.00	0.00	33.88
Aug 2020	0.00	0.00	0.00	0.00	0.00	11179.56	0.00	0.00	0.00	0.00	0.000	0.00	0.60	73.73
Sep 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.53	0.00	0.286	0.00	0.00	64.93
Oct 2020 Nov 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 61.21
Nov 2020 Dec 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 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	59.98
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
Total	3160.23	0.00	0.00	0.00	0.00	142875.75	0.00	0.00	74.83	0.00	0.849	0.00	2.00	1038.8

Total Inert C&D Waste Materials	Non-inert C&D Materials										
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste								
146035.98 tonnes	75.68 tonnes	1038.89 tonnes	2000 Liters								

Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, <u>146035.98</u> tonnes of im were generated from the Project, of which <u>142875.75</u> formes were reused in this and other contracts, and the remaining <u>3160.23</u> torms were disposed as public III for Bianki S / Sorting Facilities. 146035.98 tonnes of inert C&D material

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

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

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

Notes:

 metal, paper & plastic were collected by recycler
 The parformance target of waste recycling are specified in the Contract.
 The waste for wlabe shall also include GAD materials that are specified in the Contract to be imported for use at the Site.
 Plastics refer to plastic bottles' containers, plastic/ foam from packaging material. (7) I address for a place or definition of a place of the place of the

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

Contractor:	Taihei Dengyo Kaisha, Ltd.
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Record by: Stephen Sin

Year of Record: 2019, 2020, 2021

MM.YYYY		Actua	I Quantities	of Inert C&D	Materials G	Generated N	lonthly		Actual C	uantities of	Non-inert Ca	&D Materials	s Generated	Monthly
	Exc	avated Mate	rials		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 (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 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
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	47400	350.23

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								
5.43 tonnes	0.00 tonnes	350.23 tonnes	47400 Liters								

- - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
 - (C) 0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

(2) The performance target of waste recycling are specified in the Contract.
(3) The vaste flow table shall also include &&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) Bicken concrete for recycling into aggregates.
(6) Disposed for net waste to public fill or sorting facilities will <u>NOT</u> be considered as recycled waste.

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2020 & 2021

MM.YYYY		Ac	tual Quanti	ities of Inert (C&D Materia	ls Generated	Monthly		Actual C	uantities of N	Ion-inert C&I	D Materials	Generated	Monthly
	Exc	avated Mate	erials		Non	excavated Ma	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Reused in the Contract	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2021	0.00	0.00	21020.16	0.00	0.00	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00	0.00
Feb 2021	0.00	0.00	18083.97	0.00	0.00	0.00	0.00	0.00	18.25	0.00	0.25	0.00	0.00	0.00
Mar 2021	0.00	0.00	9048.21	0.00	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00	2.61
Apr 2021	0.00	0.00	3205.15	0.00	0.00	0.00	0.00	0.00	28.08	0.00	0.00	0.00	0.00	14.45
May 2021	0.00	0.00	6267.49	0.00	0.00	0.00	0.00	0.00	34.68	0.00	0.00	0.00	0.00	0.00 25.03
Jun 2021 Jul 2021	0.00	0.00	6555.38	0.00	0.00	0.00	0.00	0.00	26.87 16.95	0.00	0.00	0.00	0.00	25.03
	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	3.49
Aug 2021 Sep 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.49 49.15
Oct 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.47	0.00	0.00	0.00	0.40	62.08
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00	34.17
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36	0.00	0.00	0.00	0.00	52.18
500 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	02.10
									1					
	1													
	1													
	1													
Total	0.00	0.00	64180.35	0.00	0.00	0.00	0.00	0.00	191.80	0.00	0.25	0.00	0.40	254.13

Total Inert C&D Waste Materials	C&D Materials Recycled C&D Waste Disposed of at Chemical Waste			
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste	
64180.35 tonnes	192.05 tonnes	254.13 tonnes	400 Liters	

 Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, were generated from the Project, of which 0.00 tonnes were reused in this and other contracts, and the remaining 0.00 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
 64180.35 tonnes of inert C&D material

(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) 10360 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

(2) The performance target of waste recycling are specified in the Contract.

(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.

(5) Broken concrete for recycling into aggregates.

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

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2020 & 2021

MM.YYYY		Ac	tual Quant	ities of Inert (C&D Materia	ls Generated I	Actual Quantities of Non-inert C&D Materials Generated Monthly							
	Exc	avated Mate	erials	Non-excavated Materials										
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (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 '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 Mar 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	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
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Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.60	97.72
TULAI	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	31.12

Total Inert C&D Waste Materials	Non-inert C&D Materials						
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
0.00 tonnes	4.21 tonnes	97.72 tonnes	600 Liters				

 Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
 0.00
 tonnes of inert C&D material

 were generated from the Project, of which
 0.00
 tonnes were reused in this and other contracts, and the remaining

 0.00
 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.

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

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

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

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

(2) The performance target of waste recycling are specified in the Contract.

(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.

(5) Broken concrete for recycling into aggregates.

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

Appendix K

Monthly Waste Flow Table for December 2021

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

Contractor:	Taihei Dengyo Kaisha, Ltd.
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Record by: Stephen Sin

Year of Record: 2021

MM.YYYY	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of Non-inert C&D Materials Generated Monthly					
	Exca	avated Mate	rials		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 (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
														-
														-
														-
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Total Inert C&D Waste Materials		Non-inert C&D Materials						
	Generated	materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste			
	0.00	tonnes	0.00 tonnes	0.00 tonnes	0 Liters			

- Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
 0.00
 tonnes of inert C&D material

 were generated from the Project, of which
 0
 tonnes were reused in this and other contracts, and the remaining
 0.00
 tonnes were generated from the Project, of which
 0
 tonnes were reused in this and other contracts, and the remaining
 0.00
 tonnes were generated from the Project and Soring Facilities.
 to the provide the provide
 - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
 - (c) 0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

(2) The performance target of waste recycling are specified in the Contractt.
 (3) The waste flow table shall also include CAD materials that are specified in the Contract to be imported for use at the Site.
 (4) Plastics refer to plastic bottles' containers, plastic/ form 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