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



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

January 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

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EXECUTIVE SUMMARY

This is the 129^{rh} 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 January 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.

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	275kV Station Building Extension works, Main Station Building external works, jet grouting works, site formation works and jacking pit set up
Unit L11 Mechanical Erection	Condenser installation, HRSG installation and turbine block installation
Unit L11 Electrical, Instrumentation & Control Erection	Cable installation
Unit L12 Civil and Building Works	Construction of tower crane and pipe cap for Main Station Building, construction of pile cap for ACB, pipe piling for No. 5 C.W. Intake and pipe cap construction preparation for Cable Bridge

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

Independent Environmental Checker (IEC) conducted a site inspection on 15/1/2021. 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.

Environmental Licensing and Permitting

Description	Permit No.	Valid Period		Issued To	Date of
		From	То		Issuance
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
Construction Noise Permit	GW-RS0668-20	17/09/20	13/03/21	Contractor	15/09/20
Construction Noise Permit	GW-RS0966-20	01/01/21	30/06/21	Contractor	21/12/20
WPCO Discharge Licence	WT00034006-2019	08/08/19	31/08/24	Contractor	22/08/19
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

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 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;
- 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 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 desilting pits and tanks for reuse on water spraying.

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 January 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, 275kV Station Building Extension works, Main Station Building external works, jet grouting works, site formation works and jacking pit set up. Construction activities for Unit L11 mechanical erection were condenser installation, HRSG installation and turbine block installation. Construction activity for Unit L11 electrical, instrumentation & control erection was cable installation. Construction activities for Unit L12 civil and building works were, construction of tower crane and pipe cap

for Main Station Building, construction of pile cap for ACB, pipe piling for No. 5 C.W. Intake and pipe cap construction preparation for Cable Bridge. 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	l Civil and Building	Works
1.	275kV Station Building Extension Works	 Air All regulated machine attached with valid exception/approval NRMM labels. Wheel washing facility was provided. Noise Works conducted during holiday should comply with the valid CNP. Wastewater Wastewater should be treated in desilting pit and tanks for reuse on water spraying. Waste Management Scrape metal will be recycled.
		 Timber will be reused as much as possible. Chemical waste should be collected by licensed collector
2.	Main Station Building external works, jet grouting works, site formation works and jacking pit set up	 Air All regulated machine attached with valid exception/approval NRMM labels. Water truck and water sprinkler system was used. Water spraying for concrete breaking of pile head. Excavated slope and soil stock covered with cement or tarpaulin. Backfilled surface was compacted. Wheel washing facility was provided.
		 Works conducted during holiday should comply with the valid CNP.
		Wastewater

Item	Construction Activities	Environmental Mitigation Measures	
		 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. 	
		Waste Management	
		 Excavated soil was temporary stored for backfilling. Scrape metal will be recycled. Timber will be reused as much as possible. 	
Unit L1	1 Mechanical Erection	pn	
3.	Condenser installation HRSG installation	Air – Dust suppression measures implemented according to	
	Turbine block	the EMP. Noise	
	installation	 General noise mitigation measures employed at all work sites throughout the construction phase. 	
		Waste Management	
		 Waste Management Plan submitted and implemented 	
Unit L1	1 Electrical, Instrume	entation & Control Erection	
4.	Cable installation	Air - Dust suppression measures implemented according to the EMP.	
		Noise General noise mitigation measures employed at all work sites throughout the construction phase. 	
		Waste Management	
		 Waste Management Plan submitted and implemented. 	
Unit L1	2 Civil and Building	Works	
5.	Unit L12 Main Station Building Construction of tower crane and pipe cap <u>ACB</u>	 Air All regulated machine attached with valid exception/approval NRMM labels. Noise emission label was provided for air compressor. Water truck, misting cannon and water sprinkler system will be used. Water spraying for concrete breaking works. 	

Item	Construction Activities	Environmental Mitigation Measures	
	Construction of pile cap <u>No.5 C.W. Intake</u> Pipe piling	 Soil stock will be covered with cement or tarpaulin or keep the entire surface wet. Wheel washing facility will be relocated. Used tarpaulin screening cover for drill rig. 	
		 Noise General noise mitigation measure employed at all work sites throughout the construction phase. 	
		 Wastewater Wastewater will be treated in desilting pits and tanks for reuse on water spraying. Additional desilting tanks will be provided. Waste Management Excavated soil was temporary stored for backfilling. Scrape metal will be recycled. Chemical waste should be collected by licensed collector. 	
6.	Cable Bridge: Pipe Cap Construction	 Air All regulated machine attached with valid exception/approval NRMM labels. Soil stockpile covered with tarpaulin. Water spraying on haul road. 	
		 Excavated soil will be stored for backfilling. 	

1.4 Summary of EM&A Requirements

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

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

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

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



Figure 1.1 Layout of Work Site

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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 2.1 Air Qu	ality Monitoring	Locations
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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
<i>1-hour sampling:</i> 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
Alvi I	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
Alvi2	24-hour TSP	24	Once every 6 days
AM3	1-hour TSP	1	3 hourly samples every 6 days
ANIS	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;
 - o Main flow;
 - o Bypass flow.

Maintenance & Calibration

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

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

2.6 Results and Observations

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

1-hour TSP

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

24-hour TSP

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



Figure 2.1 Location of Air Quality Monitoring Stations

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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

Location Time Period Frequency Parame	
---------------------------------------	--

	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 for the two noise monitoring stations were scheduled in March and April 2021.

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	No. of Exceedances In		Event/Action Plan Implementation Status
			Action Level	Limit Level	and Results
Air					
1	Ambient TSP (24-hour)	01/01/2021- 31/01/2021	0	0	
2	Ambient TSP (1-hour)	01/01/2021- 31/01/2021	0	0	
Noise	•	•			
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/01/2021- 31/01/2021	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 January 2021 are shown in Table 4.2.

Table 4.2 Estimated Amounts of Waste in Januar	y 2021
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	Ν	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	0 Tonnes	73.02 Tonnes	0 Litres
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The monthly waste flow tables prepared by the contractors are attached in Appendix K

4.4 Site Environmental Audit

Independent Environmental Checker (IEC) conducted a site inspection on 15/1/2021. 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	scription Permit No. Valid Period Highlights		Highlights	Status	
•		From	То		
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid
Construction Noise Permit	GW-RS0668-20	17/09/20	13/03/21	Civil and Building Works for Unit L11. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0966-20	01/01/21	30/01/21	Power Block Facilities works for Unit L11. 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
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

Description	Permit No.	Valid Period		Highlights	Status
		From	То		
Waste	Account No .:	24/04/17	-	E&M Erection of	Valid
Disposal	7027672			Power Block	
Billing				Facilities – L11	
Account					
Waste	Account No.:	27/10/20	-	Civil works for	Valid
Disposal	7038672			Unit L12 No.5	
Billing				C.W. intake and	
Account				cable bridge	

Notes: # - Water quality monitoring was carried out in November 2020 and the results of which had been 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 January 2021, no complaint against the construction activities was received.

Table 4.4Environmental Complaints Received in January 2021

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

Table 4.5 Outstanding Environmental Complaints Carried Over

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

5. FUTURE KEY ISSUES

5.1 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

Unit L11 Civil and Building Works

Noise Impact

- To continue 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.

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

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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 desilting pits and tanks for reuse on water spraying.

5.2 Monitoring Schedules for the Next 3 Months

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

5.3 Construction Program for the Next 3 Months

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

6. CONCLUSION

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

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

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

Environmental mitigation measures recommended in the EM&A manual for the construction activities were implemented in the reporting month. No complaint against the construction activities was received in the reporting month. No prosecution was received for this Project in the reporting period.

The environmental performance of the Project was generally satisfactory.

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)
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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 institution, the limit level shall be 70 dB(A), reduced to 65 dB(A) during examination periods. 							

Appendix C Environmental Monitoring Schedule

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

Table C.1Monitoring schedule for 24hr and 1hr TSP monitoring for Lamma
Extension Construction (January 2021 to April 2021)

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: January 2021

24 hour TSP Measurement:-

	TSP concentration (µg/m ³)					ather Information ng Kong Obser	
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir. (°)	Mean R.H. (%)
1/1/2021	39	43	32	24	25.6	360	40
7/1/2021	65	70	59	76	35.3	360	67
13/1/2021	57	61	44	51	11.2	10	48
19/1/2021	61	63	44	64	32.2	50	64
25/1/2021	36	34	34	36	23.3	60	74
31/1/2021	40	37	31	24	28.3	50	67

1 hour TSP Measurement:-

		TSP concentration ($\mu g/m^3$)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
1/1/2021	15:00 - 15:59	62	57	45		
1/1/2021	16:00 - 16:59	52	49	39		
	17:00 - 17:59	60	44	40		
7/1/2021	15:00 - 15:59	95	93	71		
7/1/2021	16:00 - 16:59	80	73	63		
	17:00 - 17:59	79	67	60		
12/1/2021	15:00 - 15:59	53	53	41		
13/1/2021	16:00 - 16:59	56	51	43		
	17:00 - 17:59	59	46	31		
10/1/2021	15:00 - 15:59	47	52	34		
19/1/2021	16:00 - 16:59	49	58	38		
	17:00 - 17:59	57	69	51		
	15:00 - 15:59	39	42	31		
25/1/2021	16:00 - 16:59	44	40	33		
	17:00 - 17:59	53	33	34		
	15:00 - 15:59	52	36	29		
31/1/2021	16:00 - 16:59	47	35	27		
	17:00 - 17:59	35	33	24		

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









Appendix E Cont	ntinuous Noise Monitoring Results for January 2021						
Site:	Lamma Power Station Extension Construction						
Measurement Location:	Ash Lagoon and Ching Lam						
Measurement Parameter:	30-min Leq (07:00-19:00 hrs on normal weekdays)						
	5-min Leq (07:00-23:00 hrs on holidays and						
	19:00-23:00 hrs on all other days, and 23:00-						
	07:00 hrs of next day)						
Noise Equipment:	B&K 2250 sound level meters and B&K 4231 sound						
	Level calibrator						
Lab. Calibration Date:	B&K 2250 sound level meters - 28/06/2020 (Ash Lagoon)						
	19/08/2019 (Ching Lam)						
	B&K 4231 calibrator - 02/09/2020						

Date	Time	Calcula Noise Level a NSR at Tsai Tsuen/H Shing Y (dB(A))	at Long Hung Ke	Limit Noise Level (dB(A))	Calcula Noise Level a NSR at school within Wan San Tsuen (dB(A))	at the Tai 1	Limit Noise Level (dB(A))
		Max	Avg		Max	Avg	
01/01/2021	07:00-23:00	39	39	60			60
01/01/2021	23:00-07:00	45	38	45	38	32	45
02/01/2021	07:00-19:00			75	31	31	70
02/01/2021	19:00-23:00			60	36	29	60
02/01/2021	23:00-07:00	45	39	45	39	32	45
03/01/2021	07:00-23:00	56	42	60	41	34	60
03/01/2021	23:00-07:00	39	36	45	39	32	45
04/01/2021	07:00-19:00	48	48	75	57	43	70
04/01/2021	19:00-23:00			60	40	35	60
04/01/2021	23:00-07:00	43	37	45	42	36	45
05/01/2021	07:00-19:00			75	56	39	65
05/01/2021	19:00-23:00			60	40	36	60
05/01/2021	23:00-07:00	45	40	45	42	36	45
06/01/2021	07:00-19:00			75	56	43	65
06/01/2021	19:00-23:00			60	41	36	60
06/01/2021	23:00-07:00	45	39	45	40	36	45
07/01/2021	07:00-19:00			75	59	47	65
07/01/2021	19:00-23:00			60			60
07/01/2021	23:00-07:00			45	36	30	45
08/01/2021	07:00-19:00			75	60	58	65
08/01/2021	19:00-23:00			60	48	33	60
08/01/2021	23:00-07:00	35	35	45	40	32	45
09/01/2021	07:00-19:00			75	53	52	70
09/01/2021	19:00-23:00			60	45	32	60
09/01/2021	23:00-07:00			45	37	25	45
10/01/2021	07:00-23:00	55	41	60	46	34	60
10/01/2021	23:00-07:00	45	40	45	39	33	45
11/01/2021	07:00-19:00			75	48	43	70
11/01/2021	19:00-23:00			60	37	29	60
11/01/2021	23:00-07:00	43	35	45	42	30	45
12/01/2021	07:00-19:00			75	52	50	70
12/01/2021	19:00-23:00			60			60
12/01/2021	23:00-07:00	43	41	45	34	27	45
13/01/2021	07:00-19:00			75	55	46	70
13/01/2021	19:00-23:00			60	47	37	60
13/01/2021	23:00-07:00	45	40	45	41	34	45

14/01/0001	07.00 10.00	1		75	F 0	2.0	70
14/01/2021	07:00-19:00			75	58	38	70
14/01/2021	19:00-23:00	 4 F		60	39	36	60
14/01/2021	23:00-07:00	45	39	45	43	38	45 70
15/01/2021	07:00-19:00			75	47	37	
15/01/2021	19:00-23:00			60	44	36	60
15/01/2021	23:00-07:00			45	40	34	45
16/01/2021	07:00-19:00			75	48	42	70
16/01/2021	19:00-23:00	47	39	60	48	36	60
16/01/2021	23:00-07:00	45	39	45	45	34	45
17/01/2021	07:00-23:00	43	33	60	35	30	60
17/01/2021	23:00-07:00	45	39	45	37	30	45
18/01/2021	07:00-19:00			75	40	31	70
18/01/2021	19:00-23:00			60	40	36	60
18/01/2021	23:00-07:00	45	40	45	41	32	45
19/01/2021	07:00-19:00			75	33	29	70
19/01/2021	19:00-23:00	35	31	60	33	28	60
19/01/2021	23:00-07:00	45	39	45	41	33	45
20/01/2021	07:00-19:00			75	62	49	70
20/01/2021	19:00-23:00			60	38	37	60
20/01/2021	23:00-07:00	45	37	45	42	35	45
21/01/2021	07:00-19:00			75	45	38	70
21/01/2021	19:00-23:00	32	32	60	40	34	60
21/01/2021	23:00-07:00	45	42	45	32	32	45
22/01/2021	07:00-19:00			75	47	36	70
22/01/2021	19:00-23:00	51	49	60			60
22/01/2021	23:00-07:00	45	38	45	36	31	45
23/01/2021	07:00-19:00			75	34	34	70
23/01/2021	19:00-23:00			60	39	32	60
23/01/2021	23:00-07:00	44	37	45	32	30	45
24/01/2021	07:00-23:00	45	34	60	46	33	60
24/01/2021	23:00-07:00	45	38	45	43	35	45
25/01/2021	07:00-19:00			75	58 35	45	70
25/01/2021	19:00-23:00			60		32	60
25/01/2021	23:00-07:00	41	36	45	38	29	45
26/01/2021	07:00-19:00			75	26	26	70
26/01/2021 26/01/2021	19:00-23:00 23:00-07:00	42		60 45	33 40	25 33	60 45
27/01/2021	07:00-19:00		40	45 75	40 54	33 41	45
	19:00-23:00			60	38	34	60
27/01/2021	23:00-07:00	44	39	60 45	38	34	45
27/01/2021	07:00-19:00			45 75			45
28/01/2021 28/01/2021	19:00-23:00			60	39	39	60
28/01/2021	23:00-07:00	45	36	45	39	39	45
29/01/2021	07:00-19:00	45		45 75	43	38	45
29/01/2021	19:00-23:00	35	35	60	37	33	60
29/01/2021	23:00-07:00	45	38	45	45	34	45
30/01/2021	07:00-19:00	45		75	45	34	70
30/01/2021	19:00-23:00			60	45	36	60
30/01/2021	23:00-07:00	42	37	45	39	30	45
31/01/2021	07:00-23:00	42	37	45 60	46	31	45 60
31/01/2021	23:00-07:00	44	37	45	32	28	45
31/U1/2U21	∠3.00-07.00	44	57	45	54	20	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

Month: January	Year: 2021		2 Ale 18	
		Reservoir (AN	11)	
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)
1/1/2021	265.644	4	3.09	12.90
7/1/2021	268.954	4	3.04	12.95
13/1/2021	268.161	4	3.04	12.81
19/1/2021	267.123	4	3.05	12.87
25/1/2021	266.459	4	2.99	13.02
31/1/2021	265.788	4	3.02	13.05

East Gate (AM2)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
1/1/2021	248.162	4	2.84	14.32	
7/1/2021	247.515	4	2.83	14.23	
13/1/2021	251.093	4	3.10	14.12	
19/1/2021	250.013	4	2.80	14.16	
25/1/2021	249.289	4	2.75	13.92	
31/1/2021	250.964	4	3.08	14.02	

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
1/1/2021	254.043	4	3.00	13.68	
7/1/2021	253.479	4	3.00	13.68	
13/1/2021	252.872	4	2.70	13.68	
19/1/2021	252.118	4	2.40	13.68	
25/1/2021	256.018	4	3.00	13.04	
31/1/2021	255.490	4	3.00	12.27	

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

<u>Remarks:</u>

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

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
14/01/2021 / 10:45	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR17
New filter paper no.	MR18

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:	<u>5.06</u>
After:	5.02

II. General Services

1.	Clean Rotameter:	<u>Yes</u>
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:	Yes
6.	Replace Inlet Filter:	<u>Yes</u>

<u>Remarks</u>

<u>N/A</u>

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)
01/01/2021	Passed	-0.15	Passed	0.08
02/01/2021	Passed	-0.12	Passed	0.07
03/01/2021	Passed	-0.11	Passed	0.08
04/01/2021	Passed	-0.13	Passed	0.08
05/01/2021	Passed	-0.12	Passed	0.07
06/01/2021	Passed	-0.16	Passed	0.04
07/01/2021	Passed	-0.19	Passed	0.02
08/01/2021	Passed	-0.17	Passed	0.04
09/01/2021	Passed	-0.14	Passed	0.06
10/01/2021	Passed	-0.19	Passed	0.03
11/01/2021	Passed	-0.16	Passed	0.07
12/01/2021	Passed	-0.15	Passed	0.04
13/01/2021	Passed	-0.14	Passed	0.06
14/01/2021	Passed	-0.12	Passed	0.07
15/01/2021	Passed	-0.12	Passed	0.08
16/01/2021	Passed	-0.13	Passed	0.06
17/01/2021	Passed	-0.15	Passed	0.07
18/01/2021	Passed	-0.13	Passed	0.09
19/01/2021	Passed	-0.10	Passed	0.09
20/01/2021	Passed	-0.11	Passed	0.10
21/01/2021	Passed	-0.09	Passed	0.10
22/01/2021	Passed	-0.10	Passed	0.07
23/01/2021	Passed	-0.10	Passed	0.08
24/01/2021	Passed	-0.11	Passed	0.10
25/01/2021	Passed	-0.12	Passed	0.09
26/01/2021	Passed	-0.10	Passed	0.07
27/01/2021	Passed	-0.09	Passed	0.06
28/01/2021	Passed	-0.13	Passed	0.09
29/01/2021	Passed	-0.12	Passed	0.07
30/01/2021	Passed	-0.11	Passed	0.08
31/01/2021	Passed	-0.09	Passed	0.11

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	l
	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	
--	--

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.
	the Construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance, as soon as practicable.	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	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;
sampling day	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	Make agreement on the mitigation measures to be implemented;	Check all plant and equipment; Consider changes of working methods;
	working methods;	measures	Assess the effectiveness of the	Propose mitigation measures to Engineer
	Discuss mitigation measure with Engineer and Contractor;		implemented mitigation measures; Consider and instruct, if necessary,	within 3 working days and discuss with Engineer;
	Ensure mitigation measures are implemented;		- 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

Appendix H Summary of Site Audit Findings

L11 Civil and Building Works

Dates of Inspection: 5/1/2021, 15/1/2021, 19/1/2021 and 26/1/2021.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

L11 Mechanical, Electrical, Instrumentation & Control Erection Works

Dates of Inspection: 7/1/2021, 15/1/2021, 21/1/2021 and 28/1/2021.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

L12 Civil and Building Works

Dates of Inspection: 5/1/2021, 15/1/2021, 19/1/2021 and 26/1/2021.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

Summary of EMIS

Power Station – (Part B of EIA Report)

Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	• the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	С
	• the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	С
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	С
	• The materials which may generate airborne dust emissions shall be wetted by water spray system.	С
	• All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	С
	• All conveyor transfer points shall be totally enclosed.	С
	WATER QUALITY	
B1	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging. **	N/A
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
В6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented: **	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	

EM&A Log Ref.	Mitigation Measures	Implementation Status
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

ID T	ask Name	Duration	Start	Finish	Feb	Mar
1 (Civil and Building Works for Unit 11 and Assoicated Works	<u>1197 days</u>	<u>Fri 1/6/18</u>	Thu 30/9/21		
2	Contract Key Dates	<u>1197 days</u>	<u>Fri 1/6/18</u>	<u>Thu 30/9/21</u>		
3	Contract Commencement Date	0 days	Fri 1/6/18	Fri 1/6/18		
4	Completion Dates	1044 days		Thu 30/9/21		
5	Section A1 - Ground treatment installation works at Zone 1A	0 days		8Wed 31/10/18		
6	Section A2 - Ground treatment installation works at Zone 1B	0 days	Wed 31/10/18	8Wed 31/10/18		
7	Section A3 - Ground treatment installation works at Zone 2	0 days	Sun 17/3/19	Sun 17/3/19		
8	Section A4 - Ground treatment installation works at Zone 3	0 days	Thu 21/3/19	Thu 21/3/19		
9	Section A5 (i) - Ground treatment installation works at Zone 4 - Band drain installation	0 days	Thu 28/3/19	Thu 28/3/19		
10	Section A5 (ii) - Ground treatment installation works at Zone 4 - Surcharge filling	0 days	Wed 30/9/20	Wed 30/9/20		
11	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	0 days	Sat 28/3/20	Sat 28/3/20		
12	Section A6 (ii) - External works at Area E15	0 days	Sat 15/2/20	Sat 15/2/20		
13	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 & E2	0 days	Sun 1/3/20			
14	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works	0 days		Tue 17/3/20		
15	Section B1 (iii) - FSRU Civil works at Area E13	0 days		Mon 31/5/21		
16	Section B2 - Retractable Cover D at Area E22	0 days		Tue 31/3/20		
17	Section B3 - External works at Area B1, D2 and D4	0 days	Thu 30/4/20	Thu 30/4/20		
18	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	0 days	Sun 1/3/20	Sun 1/3/20		
19	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 except the deferred works for Lube Oil Storage Tank	0 days	Sun 1/12/19	Sun 1/12/19		
20	Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground floor together with the equipment foundations between GL 11-F to 11-H and 11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil reservoir	0 days	Thu 30/4/20	Thu 30/4/20		
21	Section C2 - (iii) G/F of L11 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations between GL 11-B to 11-C and 11-1 to 11-6 for the installation of condenser	0 days	Sun 1/3/20	Sun 1/3/20		
22	Section D - (i) Roads and external grounds surrounding L11 MSB and L11 HRSG in addition to the southern & eastern areas mentioned above in Area E5 and E6	0 days	Tue 31/12/19	7 Tue 31/12/19		
23	Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6	0 days	Sun 1/3/20	Sun 1/3/20		
24	Section D - (iii) Whole of L11 MSB including the pipe and cable rack along south façade of L11 MSB with all underground utilities at Area E4 including C.W. Inlet and Outlet Culvert except the deferred works	0 days	Thu 30/4/20	Thu 30/4/20		
25	Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of L11 MSB including their associated alternations & additions (A&A) Works at L10 MSB	0 days	Thu 30/4/20	Thu 30/4/20		
26	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	0 days	Sat 1/2/20	Sat 1/2/20		
27	Section E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to the western area of L11 MSB at Area E3	0 days	Mon 28/9/20	Mon 28/9/20		
28	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16	0 days		Tue 30/6/20		
29	Section E1 - (iii) External Works at Area E15 (C)	0 days		Sun 28/2/21		Section E1 - (iii) External Works at Area E15 (
30	Section E2 - Pipe and Cable Rack and trench at west of Chimney Road and Pipe and Cable Rack at south of Middle Road at Area E8 and E19	0 days	Thu 17/9/20	Thu 17/9/20		
31	Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)	0 days	Tue 30/6/20	Tue 30/6/20		
32	Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)	0 days	Sun 15/9/19	Sun 15/9/19		
33	Section F - 275kV Station Building Extension and associated works at Area E17	0 days	Sat 30/5/20	Sat 30/5/20		
34	Section G - A&A Works at No. 4 C.W. Intake at Area E12	0 days	Sun 31/5/20	Sun 31/5/20		
35	Section H - L11 Steel flue liner at No. 4 Chimney	0 days		0 Mon 15/7/19		

Refer to CEM d	ated 26March2019
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a E15(C)

ID	Task Name	Duration	Start	Finish
36	Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)	0 days	Fri 15/5/20	Fri 15/5/20
37	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	0 days	Fri 15/5/20	Fri 15/5/20
38	Section J - (i) Demolition of Retractable Cover A&B & (ii) Foundation of LMX Light Oil Storage Tank Nos. 3 & 4 and A&A for Existing Bund Wall at	0 days	Fri 30/4/21	Fri 30/4/21
39	Section K1 - External works at Area 15 (E) and 15(F)	0 days	Mon 31/5/21	Mon 31/5/21
40	Section K2 - Removal of Southern Bund and External Works at Area D5, D6 and D7	0 days	Mon 31/5/21	Mon 31/5/21
41	Section K3 - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days	Thu 30/9/21	Thu 30/9/21
42	General & Preliminary	<u>318 days</u>		Wed 24/4/19
43	Set up Temporary Site Office and Utilities	90 days	Fri 1/6/18	Wed 29/8/18
44	Permit Applications & Statuary Submissions	120 days	Thu 30/8/18	Thu 27/12/18
45	Existing Utilities scanning & Excavation Permit	45 days	Tue 13/11/18	
46	Tower Crane erection 2@MSB, 1@ 275	50 days	Wed 6/3/19	Wed 24/4/19
47	Submission and Approval	<u>554 days</u>		<u>Mon 16/12/19</u>
48	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	Fri 1/6/18	Sat 26/1/19
49	BD Approval & Consent (If required)	120 days	Fri 1/6/18	Fri 28/9/18
50	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	Sat 29/9/18	
51	Structure Steelwork Connection Design Submission & BD Approval	60 days		Tue 27/11/18
52	Structure Steelwork Shop Drawing & Approval	60 days	Sat 13/10/18	
53	Metal Cladding, louvre & windows submission & BD Approval	60 days	Wed 28/11/18	
54	Metal Cladding, louvre & windows shop drawing submission	60 days	Wed 12/12/18	
55	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	180 days	Sat 27/10/18	
56	Retractable Cover D BD Submission & Approval	90 days	Wed 20/2/19	
57	No. 4 C.W. Outfall A&A BD 1st Submission	90 days		Tue 27/11/18
58	Sumission & Approval of Steel Flue Assessment Report and Design Drawings	60 days	Sun 30/9/18	Wed 28/11/18
59	Submission and Approval of Steel Flue Design from BD	60 days		Wed 28/11/18
60	Material Fabrication & Delivery for L11 Flue	100 days	Mon 15/10/18	Tue 22/1/19
61	Folding Shutters Shop Drawing Submission & Approval	120 days		
62	Fabrication & Delivery of Folding Shutters	150 days		Sat 16/11/19
63	Sewage Pump System Design submission & approval	90 days		Wed 19/6/19
64	Fabrication & Delivery of Sewage Pump	180 days		Mon 16/12/19
65	Other material submission & approval & delivery	300 days	Thu 30/8/18	
66 67	Coordination with the Employer's Specialist Contractors	478 days	Mon 20/5/19	
67 69	Installation of Puddle Pipes at C.W. outlet Culvert	7 days	Mon 20/5/19	
68 69	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days		Sat 13/7/19
69 70	Template setting at L11 Turbo Block Foundation	60 days		Mon $9/3/20$
70 71	Template setting of holding down bolts at HRSG column base	46 days	Tue 23/7/19	
	I-beam / channel base installation on top of transformer foundations at Transformer Area	30 days	Fri 17/4/20	Sat 16/5/20
72	Overhead crane erection at turbine hall using access through a temporary opening at L11 MSB roof between GL11-G to 11-H and 11-2 to 11-6	36 days	Sun 1/12/19	
73	Condenser assembly and erection using access through a temporary façade opening at L11 MSB below 1/F along GL 11-6 from GL11-B to 11-C including a clear space below 1/F between GL 11-B to 11-C	127 days	Sun 1/3/20	Sun 5/7/20
74	Installation of power train equipment including air inlet duct using access through a temporary façade opening at L11 MSB below 1/F along GL 11-6 from	142 days	Fri 1/5/20	Sat 19/9/20
75	GL11-F to 11-H including a clear space below 1/F of the above area Installation of embedded materials such as holding down bolts for equipment	30 days	Sun 23/6/19	Mon 22/7/19
	foundations - Commencement			
76	Section A1 & A2 - Ground treatment at Zone 1A & 1B	<u>92 days</u>		Wed 31/10/18
77	Plant establishment for earthworks	7 days		Tue 7/8/18
78	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	45 days		Fri 21/9/18
79	Delivery of band drain	5 days	Wed 29/8/18	
80	Plant establishment for band drain (1st rig)	10 days		Wed 12/9/18
81	Plant establishment for band drain (2nd rig)	7 days		Wed 26/9/18
82	Plant establishment for band drain (3rd rig)	7 days	Thu 11/10/18	Wed 17/10/18

17-8002 Master Prog Rev 3

Task Split

Milestone ♦

Summary 🛡

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Appendix J

Refer to CEM dated 26March2019 Half 1, 2021 Apr

3 4 5 6 7 33 9 0 1 2 33 4 5 5 7 33 9 00 1 2 33 9 00 1 2 33 9 00 2 33 4	Vert. Band drain installation (1023 nos. x 44m) Deposition of surcharge up to +8.3mPD Section A3 - Ground treatment installation works at Zone 2 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Delivery of band drain Vert. Band drain installation (1787 nos. x 44m) Deposition of surcharge up to +8.3mPD Additional Concrete Blocks + Extra Surcharge Section A4 - Ground treatment installation works at Zone 3 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation Surcharge at deferred portion	45 days 45 days 158 days 30 days 6 days 50 days 60 days 60 days 131 days 12 days 60 days 45 days 0 days		Tue 30/10/18 Tue 23/10/18 Wed 12/12/18 Thu 31/1/19 Sun 17/3/19 Thu 21/3/19
4 4 55 6 7 33 9 01 1 22 33 4 55 67 33 9 10 11 12 11 12 33 9 00 11 12 33	Deposition of surcharge up to +8.3mPD Section A3 - Ground treatment installation works at Zone 2 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Delivery of band drain Vert. Band drain installation (1787 nos. x 44m) Deposition of surcharge up to +8.3mPD Additional Concrete Blocks + Extra Surcharge Section A4 - Ground treatment installation works at Zone 3 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	45 days 158 days 30 days 6 days 50 days 60 days 60 days 12 days 60 days 45 days	Mon 17/9/18 Mon 1/10/18 Mon 1/10/18 Thu 18/10/18 Wed 24/10/18 Mon 3/12/18 Mon 7/1/19 Thu 1/11/18 Thu 1/11/18	Wed 31/10/18 Sun 17/3/19 Tue 30/10/18 Tue 23/10/18 Wed 12/12/18 Thu 31/1/19 Sun 17/3/19 Thu 21/3/19
5 7 33 3 34 3 35 3 4 3 55 5 7 3 39 3 10 1 11 1 12 1 11 1 12 3	Section A3 - Ground treatment installation works at Zone 2Backfilling and compaction from existing ground +4.5mPD to +5.5mPDDelivery of band drainVert. Band drain installation (1787 nos. x 44m)Deposition of surcharge up to +8.3mPDAdditional Concrete Blocks + Extra SurchargeSection A4 - Ground treatment installation works at Zone 3Backfilling and compaction from existing ground +4.5mPD to +5.5mPDVert. Band drain installationDeposition of surcharge up to +8.3mPDVert. Band drain installationDeposition of surcharge up to +8.3mPDVert. Band drain installationDeposition of surcharge up to +8.3mPDVert. Band drain installationDessession of Part 1 Defer portion at Zone 3Vert. Band drain installationPossession of Part 2 Defer portion at Zone 3Vert. Band drain installation	158 days 30 days 6 days 50 days 60 days 60 days 12 days 60 days 45 days	Mon 1/10/18 Mon 1/10/18 Thu 18/10/18 Wed 24/10/18 Mon 3/12/18 Mon 7/1/19 Thu 1/11/18 Thu 1/11/18	Sun 17/3/19 Tue 30/10/18 Tue 23/10/18 Wed 12/12/18 Thu 31/1/19 Sun 17/3/19 Thu 21/3/19
7 3 33 9 90 1 22 3 33 4 55 5 56 7 33 9 90 1 12 3 12 3	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Delivery of band drain Vert. Band drain installation (1787 nos. x 44m) Deposition of surcharge up to +8.3mPD Additional Concrete Blocks + Extra Surcharge Section A4 - Ground treatment installation works at Zone 3 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	30 days 6 days 50 days 60 days 60 days 131 days 12 days 60 days 45 days	Mon 1/10/18 Thu 18/10/18 Wed 24/10/18 Mon 3/12/18 Mon 7/1/19 Thu 1/11/18 Thu 1/11/18	Tue 30/10/18 Tue 23/10/18 Wed 12/12/18 Thu 31/1/19 Sun 17/3/19 Thu 21/3/19
3 3 9 0 1 2 3 4 5 5 7 3 9 0 1 2 3 9 0 1 2 3 3	Delivery of band drain Vert. Band drain installation (1787 nos. x 44m) Deposition of surcharge up to +8.3mPD Additional Concrete Blocks + Extra Surcharge Section A4 - Ground treatment installation works at Zone 3 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	6 days 50 days 60 days 60 days 131 days 12 days 60 days 45 days	Thu 18/10/18 Wed 24/10/18 Mon 3/12/18 Mon 7/1/19 Thu 1/11/18 Thu 1/11/18	Tue 23/10/18 Wed 12/12/18 Thu 31/1/19 Sun 17/3/19 Thu 21/3/19
9 1 2 3 4 5 6 7 3 9 0 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Vert. Band drain installation (1787 nos. x 44m) Deposition of surcharge up to +8.3mPD Additional Concrete Blocks + Extra Surcharge Section A4 - Ground treatment installation works at Zone 3 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	50 days 60 days 60 days 131 days 12 days 60 days 45 days	Wed 24/10/18 Mon 3/12/18 Mon 7/1/19 <u>Thu 1/11/18</u> Thu 1/11/18	Wed 12/12/18 Thu 31/1/19 Sun 17/3/19 Thu 21/3/19
)) 1 2 2) 3) 5) 6) 7) 3) 0 1 2) 3) 0 1 2) 3)	Deposition of surcharge up to +8.3mPD Additional Concrete Blocks + Extra Surcharge Section A4 - Ground treatment installation works at Zone 3 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	60 days 131 days 12 days 60 days 45 days	Mon 7/1/19 Thu 1/11/18 Thu 1/11/18	Sun 17/3/19 Thu 21/3/19
1 2 2 3 3 5 5 7 3 9 0 1 2 3	Section A4 - Ground treatment installation works at Zone 3Backfilling and compaction from existing ground +4.5mPD to +5.5mPDVert. Band drain installationDeposition of surcharge up to +8.3mPDPossession of Part 1 Defer portion at Zone 3Vert. Band drain installationPossession of Part 2 Defer portion at Zone 3Vert. Band drain installation	131 days 12 days 60 days 45 days	Thu 1/11/18 Thu 1/11/18	<u>Thu 21/3/19</u>
2 3 4 5 6 7 3 9 0 1 2 3 3	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	12 days 60 days 45 days	Thu 1/11/18	
3 4 5 6 7 3 9 0 1 2 3	Vert. Band drain installation Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	60 days 45 days		
4 5 7 3 3 9 0 1 2 3	Deposition of surcharge up to +8.3mPD Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	45 days	Fri 9/11/18	
5 7 7 3 9 0 1 2 3	Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation			
5 7 3 9 0 1 2 3	Vert. Band drain installation Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	0 days	Tue 18/12/18	
7 3 9 0 1 2 3	Possession of Part 2 Defer portion at Zone 3 Vert. Band drain installation	10 days	Wed 20/2/19 Wed 20/2/19	Wed 20/2/19 Fri 1/3/19
9 0 1 2 3	Vert. Band drain installation	0 days	Fri 1/3/19	Fri 1/3/19
0 1 2 3	Surcharge at deferred portion	7 days	Fri 1/3/19	Thu 7/3/19
1 2 3		14 days	Fri 8/3/19	Thu 21/3/19
2 3	Section A5 (i) - Ground treatment installation works at Zone 4	<u>83 days</u>	Wed 26/12/18	
3	Site Preparation for Vertical Band Drain Band drain installation	3 days	Tue 1/1/19 Wed 26/12/18	
	Band drain installation Possession of Defer portion at Zone 4	21 days 0 days	Fri 1/3/19	Fri 1/3/19
4	Vert. Band drain installation	28 days	Fri 1/3/19	Thu 28/3/19
5	Section A5 (ii) - Surcharge works at Zone 4	<u>30 days</u>		Wed 30/9/20
6	Deposition of surcharge up to +8.3mPD	30 days	Tue 1/9/20	Wed 30/9/20
7	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	<u>493 days</u>	<u>Thu 1/11/18</u>	Sat 28/3/20
8	BD Amendment, resubmission & approval for Jacking Pit	170 days		Mon 29/4/19
9	Consent for Jacking Pit ELS	28 days	Sat 20/4/19	Fri 17/5/19
0	Mobilization	0 days	Sat 15/12/18	
2	Jacking Pit Sheetpile Installation (incl. Stop work notice + CNY) Protective screen and preventive measure for U9 gas pipeline (VO)	60 days 28 days	Sun 16/12/18 Sun 24/2/19	Sat 23/2/19 Sat 23/3/19
2 3	Provision of temp support for U10 gas pipeline (VO) upon RMA allow access	28 days	Sun 24/2/19 Sun 14/4/19	Sat 23/3/19 Sat 11/5/19
4	ELS of jacking pit	30 days		Sun 16/6/19
5	Pipe Jacking set up & ground strengthing	18 days	Mon 17/6/19	
6	Pipe Jacking	90 days	Tue 10/9/19	
7	Receiving Pit BD Approval	170 days	Sun 25/11/18	Thu 23/5/19
8	Consent for Pipe & Sheet pile	28 days	Tue 14/5/19	
9 0	Receiving Pit Pipe & Sheet pile installation Consent for Receiving Pit ELS	30 days 28 days	Thu 4/7/19	Wed 10/7/19
1	ELS of Receiving pit	40 days		Mon 9/9/19
2	Allow modify existing outfall manhole for pipe jacking receiving	18 days	Tue 10/9/19	
3	Culvert Pipe Intallation & water test	55 days		Wed 12/2/20
4	Inspection Manhole at Jacking Pit + backfill (Area E3(A))	18 days	Thu 13/2/20	
5	Manhole extension at Outfall no. 4 + backfill + Reinstate of Outfall Rd	45 days	Thu 13/2/20	
6	Sheetpile for L12 Outlet culvert (Connection to Jacking Pit)	45 days		Wed 28/8/19
7	Consent + ELS for remaining jacking pit	75 days	Thu 29/8/19	Mon 11/11/19
8	Outlet Culvert pipe installation + Thrust Box (remaining portion at A1 Area)	45 days	Tue 12/11/19	
9	Sheet pile for future extension along GRS	60 days		Sun 27/10/19
0	Section A6 (ii) - External works at Area E15(D)	<u>37 days</u>		Sat 15/2/20
1	Arae possession & Clearance	6 days		Mon 6/1/20
2	Road & Surface Works	31 days		Sat 15/2/20
5	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 & E2	<u>375 days</u>	<u>Thu 31/1/19</u>	<u>Sun 1/3/20</u>
4	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/10
5	Excavation for CW Inlet Culvert (South of L11 HRSG)	21 days	Tue 16/4/19	
6	Installation CW Inlet Culvert (South of ETT THSS)	30 days		Wed 5/6/19
7	Construction of Thrust Box & Manholes,etc	14 days		Wed 19/6/19
8	Backfill	21 days		Wed 10/7/19
9	Install underground utilities	45 days		Wed 13/11/19
0	Backfill and Temporary paving for Condensor Move in (E1)	13 days 14 days	Mon 17/2/20	
1	Backfill and Temporary paving for Condensor Move in (b1) Backfill and Temporary paving for Condensor Move in (others)	30 days		Sun 1/3/20
2	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB	482 days		Tue 17/3/20
	including the associated roof structure except the roof deferred works			
3	Area possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18

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144 145						
145	Erection of turbine hall roof except defer work	0 days	Wed 12/11/10	Wed 13/11/19	Feb	Mar
	Installation of crane griders	21 days	Mon 11/11/19			
146	Turbine hall wall claddings	60 days		Tue 17/3/20		
147	Section B1 (iii) - FSRU Civil works at Area E13 (GRS)	151 days		Mon 31/5/21		
148	Submission and approval for consent to work	0 days	Fri 1/1/21	Fri 1/1/21		
149	Civil & Building Works	130 days		Mon 10/5/21		
150	Ground reinstatement	21 days	Tue 11/5/21	Mon 31/5/21		
151	Section B2 - Retractable Cover D at Area E22	435 days	Tue 1/1/19	Tue 31/3/20		
152	Area Possession, Demolition and clearance work	60 days		Mon 11/3/19		
153	Revise Structural Form and BD resubmission & approval	150 days	Tue 12/3/19	Thu 8/8/19		
154 155	Foundation construction	60 days		Mon 7/10/19		
155	Backfill & Ground reinstatement	30 days		Wed 6/11/19		
157	Superstructure fabrication & delivery Superstructure erection	90 days 90 days	Fri 9/8/19 Thu 7/11/19	Wed 6/11/19		
158	E&M Installation and T&C	45 days	Sun 16/2/20			
159	Section B3 - External works at Area B1, D2 and D4	416 days	Fri 1/3/19	The 31/3/20		
160	Receive Area from HKE, Area Possession & Clearance	0 days	Fri 1/3/19	Fri 1/3/19		
161	Removal of existing paving for band drain under Section A5(i)	30 days	Fri 1/3/19	Sat 30/3/19		
162	Complete Vert. Band drain under Section A5(i)	0 days	Thu 28/3/19			
163	Ground preparation for B1, D2 & D4 for handover to Plant contractor	90 days	Sat 1/2/20	Thu 30/4/20		
164	Section C1 - Area south of L11 MSB from GL11-F westwards leading to	466 days	Thu 1/11/18			
	Station Road at Area E3(A) & E3(B)					
165	Area Possession & Clearance	0 days	Thu 1/11/18			
166	Excavation for Type C (Area E3A)	21 days		Mon 15/4/19		
167	Installation CW Outlet Culvert Pipe connect to Type C1	21 days	Tue 16/4/19			
168	Installation CW Inlet Culvert pipe (South of L11 Condensor)	21 days	Mon 20/5/19			
169	Construction of Thrust Box	10 days	Mon 10/6/19			
170	Construction of Access Manhole	21 days	Mon 10/6/19			
171 172	Backfill Construction of Underground drainage and utilities	14 days 60 days	Mon 1/7/19	Sun 14///19 Tue 7/1/20		
172	Construct Temp Paving for Condenser move in	45 days	Thu 7/11/19 Wed 8/1/20			
174	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area	295 days	<u>Thu 31/1/19</u>			
	E7 (No Defer Foundations)	<u>=> e unj s</u>		<u>Sun 1, 12, 12</u>		
175	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/19		
176	Excavation & Pile Caps & Tie Beams (HRSG South Area E7)	45 days	Sun 19/5/19	Tue 2/7/19		
177	Construction RC foundations	45 days	Tue 9/7/19	Thu 22/8/19		
178	Construction RC plinths	30 days	Fri 23/8/19			
179	Construction underground utilities	45 days	Fri 23/8/19			
180	Backfill & Construction on-grade slabs	35 days	Mon 7/10/19			
181	Backfill and Temporary paving	21 days	Mon 11/11/19			
182	<u>Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground</u> floor together with the equipment foundations between GL 11-F to 11-H and	<u>496 days</u>	<u>Sat 1/12/18</u>	<u>Thu 30/4/20</u>		
	11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil					
	reservoir					
183	Area Possession & Clearance	0 days	Sat 1/12/18	Sat 1/12/18		
184	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block North)	70 days	Mon 14/1/19			
185	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block South)	30 days	Wed 10/7/19			
186	Backfill and construction turbine block foundations	21 days		Thu 29/8/19		
187	Construction of internal drainage	60 days		Mon 7/10/19		
188	Construction RC walls incl. G/F rooms	90 days	Tue 8/10/19	Tue 7/1/20		
189	Construction turbine block columns and upper portion for plant embed	21 days	Mon 9/9/19	Sun 29/9/19		
	installation					
190	Concrete Turbine upper part foundation & clear falsework	52 days		Thu 30/4/20		
191	Section C2 - (iii) G/F of L11 MSB including the Condenser Pit, Circulating	<u>466 days</u>	<u>Thu 1/11/18</u>	<u>Sun 1/3/20</u>		
	Water Pipe Pit and equipment foundations between GL 11-B to 11-C and 11-1 to 11 6 for the installation of condensor					
192	to 11-6 for the installation of condenser Area Possession & Clearance	0 darra	Thu 1/11/10	Thu 1/11/10		
192	Excavation to foundation level at ELS Type A	0 days 18 days		Thu 1/11/18 Tue 30/4/19		
194	Construction of CW Outlet Box + lowest tie beam & caps	40 days	Wed 1/5/19			
195	Construction of pile caps & tie beams & hot well sump pit up to +2.5mPD	30 days	Mon 10/6/19			

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D	Task Name	Duration	Start	Finish	
96	Backfill & Construction of CW Inlet Box + tie beams	18 days	Wed 10/7/10	Sat 27/7/19	,
197	Backfill and Construction ground beams & trenches	18 days		Wed 14/8/19	
198	Construction of indoor underground drainage	12 days		Mon 26/8/19	
199	Backfill & construction on-grade slabs	10 days	Tue 27/8/19		
200	Construction Column casting and RC walls	30 days		Tue 29/10/19	
201	Metal Cladding & Louvres for GLB-C/1-6	60 days	Thu 28/11/19		_
202	Mis. Works for plant erection	24 days	Fri 7/2/20	Sun 1/3/20	
203	Section D - (i) Roads and external grounds surrounding L11 MSB and L11	414 days		Tue 31/12/19	
	HRSG in addition to the southern & eastern areas mentioned above in Area				
	E5 and E6				
204	Area Possession & Clearance	14 days	Thu 1/11/18	Wed 14/11/18	18
205	Excavation for Type C1 and open sheet pile	75 days	Mon 14/1/19	Mon 8/4/19	
206	Install CW Outlet pipe & connect to prevous	21 days		Mon 6/5/19	
207	Backfill	10 days		Thu 16/5/19	
208	Undeground utilities and trenches	60 days		Sat 31/8/19	
209	Construction of plant drainage, trenches & RC plinths	45 days		Tue 15/10/19	
210	Remaining Undeground utilities & backfill (West of Tx Bay)	75 days		Tue 31/12/19	
211	Section D - (ii) Remaining northern part of L11 HRSG area and its	<u>375 days</u>	<u>Thu 31/1/19</u>	<u>Sun 1/3/20</u>	
	surrounding in Area E6				
212	Area Possession & Clearance	0 days		Thu 31/1/19	
213	Excavation & Pits & Pile Caps & Tie Beams (HRSG north Area E6)	45 days	Thu 4/4/19		
214	Construction RC foundations	45 days	Sun 19/5/19		
215	Construction RC plinths & HRSG Lift Pit & internal drainage	60 days	Sun 9/6/19		
216	Backfill Construction on-grade slabs	28 days		Wed 4/9/19	_
217	Construction underground utilities	45 days		Sat 19/10/19	
218	Backfill, Remaining utilities and temporary paving	85 days		Mon 17/2/20	
219	Touch up and site clearance	13 days	Tue 18/2/20	Sun 1/3/20	
220	Section D - (iii) Whole of L11 MSB including the pipe and cable rack along	<u>526 days</u>	<u>Thu 1/11/18</u>	<u>Thu 30/4/20</u>	<u>)</u>
	south façade of L11 MSB with all underground utilities at Area E4 including				
221	C.W. Inlet and Outlet Culvert except the deferred works	0.1	The 1/11/10	The 1/11/10	0
	Area Possession & Clearance	0 days		Thu 1/11/18	
222	Construction of pile caps & tie beams at Transformer Area	60 days	Thu 15/11/18		
223	Excavation & Construction Blow Down Sum pit (Type B)	45 days		Sat 18/5/19	
224	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Wed 10/7/19		
225	Preaparation for S.Steelwork Erection	14 days		Tue 16/7/19	
226	Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	30 days	Wed 17/7/19		
227	Structural Delivery & Erection (Equipment Floors)	45 days		Sun 29/9/19	
228	Structural Delivery & Erection (Turbine Hall South)	45 days		Wed 13/11/19	
229	Fire Coating Application at Joint	120 days		Fri 13/12/19	
230	External Scaffolding Erection	150 days	Wed 31/7/19		
231	Construction 1/F RC Slab	14 days		Sun 13/10/19	
232	Construction M/F RC Slab	7 days	Mon 14/10/19		
233	Construction 2/F RC Slab	14 days	Mon 14/10/19		
234	Construction 3/F RC Slab	-	Mon 28/10/19		
235	Construction 4/F RC Slab	14 days	Mon 11/11/19		
236	Construction 5/F RC Slab (Roof of turbine hall, except defer portion)	30 days	Mon 25/11/19		
237	Construction Roof RC Slab	14 days		Sun 22/12/19	
238	Construction Upper Roof RC Slab	12 days	Fri 27/12/19		
239	Construction Defer Roof RC Slab (G.L. G-H)	30 days		Sat 15/2/20	
240	Construction of Staircase ST-01 & lift shaft & machine room	120 days		Sun 29/12/19	
241	Construction of Staircase ST-02 except defer work	76 days	Mon 28/10/19		
242	Construction of RC plinth, kerbs & parapet Walls	30 days	Fri 7/2/20	Sat 7/3/20	
243	Erection of Skylight & Roof Features	45 days		Sun 5/4/20	
244	Waterproofing & Flooring at Roof	60 days		Mon 16/3/20	
245	ABFW Works from 1/F to 5/F equipment rooms		Mon 21/10/19		
246	Metal Cladding, Windows and Louvres incl. roof feature		Thu 28/11/19		
247	Removal of external scaffolding	60 days	Mon 17/2/20		
248	Building Services E&M Access & Installation	150 days	Mon 4/11/19	Sun 12/4/20	
249	Remaining and Mis. works for Plant erection Full Access			Thu 30/4/20	

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Appendix J

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Section 0: thy Link bridge between 110 and L10 MSE and at the work of L10 MSE induced liberal section dimensions and differentiations. A solutions (L&A) MYR at L10 MSE induced liberal sections and the methods in the liberal section of the liberal section and liberal section and liberal section and liberal sections and libera sections and liberal sections and lib		ask Name	Duration	Start	Finish	Feb	
L1 LNSB Control Control Area Notesia & Clearance 0 days The 11/13 The 11/13 Area Notesia & Clearance 0 days The 11/13 The 11/13 Area Notesia & School L1.0.0.0818 0 days The 23/117 The 23/20 Castrage of hetgo-sleet 7 days Fri 23/20 The 50/20 Abbit Tool Statistics 1 days Fri 23/20 The 94/20 Abbit Tool Statistics 1 days Fri 23/20 The 94/20 Forther Nether 21 days Fri 104/20 The 104/20 Section D : 110 Conter Foundation 1 days Fri 104/20 The 104/20 Section D : 110 Conter Foundation 2 days Fri 104/20 The 104/20 Section D : 110 Conter Foundation 2 days Fri 104/20 The 23/20 Encorptice Installation Abbit Section 11/20 Statis Section 11/20 Statis Section 11/20 Statis Section 11/20 Contractis of francation 7 days Statis Section 11/20 Statis	50	Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of	526 days	Thu 1/11/18	Thu 30/4/20	rep	
Ack work as Sochen J L10 MSB 0 days The 1/1/18 The 1/11/18 The 1/11/18 The 1/1/18 The 1/11/18		L11 MSB including their associated alternations & additions (A&A) Works at					
A.A. work-at South of [10] MSB 60 dys Thu 28/11/19 Fri 22/20 Fri 22/20 Derection of Invide dek 7 dys Fri 22/20 Thu 33/20 Meid Lossing mollution 14 dys Fri 22/20 Thu 33/20 AW work 21 dys Fri 22/20 Thu 32/20 Section D-101 Gas Due Foundation. Physica and Cable Rack connecting: 21 dys Stat 12/20 Area Prosension & Clearmer 1 CVY 0 dys Mon 11/219 Stat 12/20 Area Prosension & Clearmer 1 CVY 0 dys Mon 11/219 Stat 12/20 Description of the load test 24 dys Stat 12/20 Mon 12/219 Description of the load test 24 dys Stat 12/20 Mon 12/219 Description of test 24 dys Stat 12/20 Mon 12/219 Mon 12/219 Description of test 7 dys Krit 1/20 Mon 12/219 Mon 12/219 Mon 12/219							
Freecois or link bridge concurstant steel 21 days F 76 7220 The 27/220 Casting of Fridge dark 7 days F 76 2200 The 37200 Metal moding installation 14 days F 76 2200 The 37200 Point new opening at MSB for final connection 14 days F 72 2200 The 9420 Point new opening at MSB for final connection 14 days F 72 2200 The 9420 Point new opening at MSB for final connection 14 days F 70 2200 The 9420 Point new opening at MSB for final connection 14 days F 70 2200 The 9420 Area Possission & Channes e-CY 0 days Mon 112219 F 264419 Connection of condution 45 days Sat 15(4) Mon 157/19 Execution & final data stat 45 days Sat 15(4) Mon 157/19 Execution at the stat 45 days Mon 12219 Mon 2529/19 Beckeffild Conferground utilisis 0 days Mon 12219 Mon 2529/19 Connection of foundation 40 days Wet 17/20 Mon 2529/19 Beckeffild Conferground utilisis O days Wet 17/20 Mon 2529/29 Beckeffild Conference Statemant Area E3 <td>51</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	51						
Catal configuration 14 days Fit 28/220 Thu 5/320 Meal configuration 14 days Fit 6/320 Thu 5/320 AWP work 21 days Fit 28/220 Thu 5/320 Feature opening at MSB for final connection 21 days Fit 10/320 Thu 5/320 Feature opening at MSB for final connection 21 days Fit 10/420 Thu 5/320 Feature opening at MSB for final connection 24 days Fit 10/420 Thu 5/320 Steer opte transmit of thus the moment of the fit 10/420 Thu 5/320 Thu 5/320 Steer opte transmit of the fit 10/420 Fit 10/420 Fit 10/420 Fit 10/420 Construction of foundation & workin an evolution 25 days Sat 274/19 Fit 28/210 Packriff & Undeground utilities 80 days Fit 10/420 Fit 10/420 Reschiff & Undeground utilities 80 days Fit 10/420 Weil 10/20 Reschiff & Undeground utilities 80 days Fit 10/420 Weil 10/20 Reschiff & Undeground utilities 80 days Fit 10/420 Weil 10/20 Fit 10/420 Reschiff & Undeground utilities Weil 10/20 Weil 10/20 Fit 10/420 Weil 10/20 <td>52</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>	52		•				
Method norting installation 14 days Fr6 6320 Thu 19320 ABWF work 14 days Fr6 20730 Thu 9420 Port not: working at MSB for final connection 14 days Fr6 20730 Thu 9420 Port not: working at MSB for final connection 14 days Fr6 20730 Thu 9420 Section 10: Line Case Drect from dation. The and Cable Rack and associated PAK daws Mon 112219 Said 1220 Area Pracessmon & Clemance: e-NY 0 days Mon 112219 Fraid 24319 Section 10: foundation 45 days Said 1220 Said 1220 Construction of foundation 45 days Said 1220 Fraid 24319 Rectain E1: CIL Line Mice and Pasco lack Rack connecting L1 MSH to 26 days Said 1202 Fraid 24319 Rectain E1: CIL Line Mice and Pasco lack Rack connecting L1 MSH to 26 days Weid 11/20 Non 289/20 Rectain MSH to Area B2 0 days Weid 11/20 Non 289/20 Rectain of Somethins 16 days Weid 11/20 Non 289/20 Section of Somethins at ad 30 days The 14/20 Non 42/20 Rectain of Somethins at ad 30 days Non 72/20 Non 42/20 Section of Somethi	53						
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02. Master Prog Rev 3 Task Split Milestone	02	Construction of underground drainage and utilities	60 days	Tue 31/3/20	Fri 29/5/20		
02. Master Prog Rey 3 Task Solit Milestone I Summary							

Refer to CEM dated 26March2019

Half 1, 2021

ID	Task Name	Duration	Start	Finish
303	Backfill & road work	32 days	Sat 30/5/20	Tue 30/6/20
304	Section E4 - 275kV cable trenching works connecting the 275kV Switching	185 days	Fri 15/3/19	Sun 15/9/19
	Station Extension and L11 MSB at Area E9 (A)	<u>100 uujs</u>	<u></u>	<u>5411 10/7/17</u>
305	Site possession	0 days	Fri 15/3/19	Fri 15/3/19
306	Obtain Permit to work & Road close permit	10 days	Fri 15/3/19	Sun 24/3/19
07	Excavation & construction new cable trench to 275kV	45 days	Mon 25/3/19	Wed 8/5/19
808	Excavation & construction new cable trench to L11MSB	130 days	Thu 9/5/19	Sun 15/9/19
309	Section F - 275kV Station Building Extension and associated works at Area	709 days	Fri 1/6/18	Sat 30/5/20
	E17			
310	Installation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6	14 days	Fri 1/6/18	Thu 14/6/18
311	Construction of Staircase ST-3	110 days	Fri 15/6/18	Tue 2/10/18
312	BD Amendment Approval on A&A	0 days		Mon 17/12/18
313 314	BD Amendment Approval on A&A ST3 & Drainage OP inspection of Staircase ST-3	0 days 14 days	Mon 4/2/19 Mon 11/2/19	Mon 4/2/19 Sun 24/2/19
315	Consent of New Foundation Works (Stage 1)	0 days	Fri 19/10/18	Fri 19/10/18
316	Consent & BA10 for Demolition of Existing Staircase	0 days	Fri 8/3/19	Fri 8/3/19
317	Demolition of Exisiting Staircase and Submit BA14A	14 days	Sat 9/3/19	Fri 22/3/19
318	BD inspection for BA14A & Issue OP	28 days	Sat 23/3/19	Fri 19/4/19
319	Consent & BA10 for New Foundation Work (Stage 2)	28 days	Sat 13/4/19	Fri 10/5/19
320	Hoarding Modification	7 days	Fri 19/10/18	Thu 25/10/18
321 322	Pile Cap & Tie Beam Construction (Stage 1) Erection of Tower Crane	98 days 40 days	Fri 26/10/18 Mon 11/2/19	Thu 31/1/19 Fri 22/3/19
322 323	Pile Cap and Tie Beam (Stage 2)	21 days	Sat 11/5/19	Fri 31/5/19
324	RC Construction up to 1/F (Stage 1)	30 days	Sat 11/5/19	Sun 9/6/19
325	RC Construction up to 1/F (Stage 2)	75 days	Sat 1/6/19	Wed 14/8/19
326	Construction of Staircase ST6	90 days	Sun 15/9/19	Fri 13/12/19
327	Shop Drawing Submission & Approval of Structural Steel	45 days	Wed 27/2/19	Fri 12/4/19
328	Structural Steel fabrication & Delivery	60 days	Sat 13/4/19	Tue 11/6/19
329 330	Erection of Structural Steel GL 17~18 Erection of Structural Steel GL 8~17	30 days 60 days	Fri 16/8/19 Sun 15/9/19	Sat 14/9/19 Wed 13/11/19
331	Metal Cladding Delivery	60 days	Wed 7/8/19	Sat 5/10/19
332	Metal Door, Window & Lourve Delivery	45 days	Sun 6/10/19	Tue 19/11/19
333	Erection of Working Platform and Scaffold	150 days	Mon 1/7/19	Wed 27/11/19
334	Install Decking	60 days	Wed 9/10/19	Sat 7/12/19
335	RC Walls from 1/F @ GIS Hall	40 days	Thu 31/10/19	
336	Construction of 2/F RC slab	14 days		Mon 23/12/19
337	Construction of R/F RC slab	21 days	Tue 24/12/19	
338 339	Construction of UR/F RC slab Construction of GIS Hall Floor	14 days 60 days	Thu 16/1/20 Tue 24/12/19	Fri 7/2/20 Tue 3/3/20
340	Installation of Overhead Crane (By JEC)	60 days	Wed 4/3/20	Sat 2/5/20
341	Construction of staircase ST4, ST5, Lift Shaft & Equip Floors	150 days	Sun 15/9/19	Sat 22/2/20
342	Lift Installation	90 days	Sun 23/2/20	Fri 22/5/20
343	Concrete of RC walls, plinths, kerb & parapet walls & New trench for LV Power	30 days	Tue 24/12/19	Sun 2/2/20
344	ABWF Works @ G/F	50 days	Mon 14/10/19	
345	ABWF Works @ 1/F	50 days	Wed 13/11/19	
346 347	ABWF Works @ 2/F ABWF Works @ R/F	75 days 30 days	Fri 13/12/19 Tue 14/1/20	Sat 7/3/20 Fri 21/2/20
347 348	ABWF Works @ UR/F	21 days	Mon 3/2/20	Sun 23/2/20
349	Waterproofing Works at R/F & UR/F	45 days	Thu 16/1/20	Mon 9/3/20
350	Building Services E&M Access & Installation & T&C	150 days	Wed 13/11/19	
351	Metal Cladding, Windows and Louvres incl. Roof Feature	90 days	Tue 24/12/19	Thu 2/4/20
352	Shutter Erection	30 days	Fri 3/4/20	Sat 2/5/20
353	Removal of External Scaffolding + Tower Crane	35 days	Fri 3/4/20	Thu 7/5/20
354	External Underground Drainage and Utilities	30 days	Fri 17/4/20	Sat 16/5/20
355 356	Road & Paving Reinstatement Ready for FSD & OP Inspection	30 days	Fri 1/5/20 Sat 30/5/20	Sat 30/5/20 Sat 30/5/20
350 357	Section G - A&A Works at No. 4 C.W. Intake at Area E12	0 days 143 days		
358				Sun 31/5/20
	Permit to work	0 days		Wed 1/1/20
359	Erection of temp. platform	14 days		Tue 14/1/20
360	Demolition work	30 days		Sat 22/2/20
361	Modify existing slab openings	75 days		Thu 7/5/20
362	Curing + Removal of platform	24 days	Fri 8/5/20	Sun 31/5/20
363	Section H - L11 Steel flue liner at No. 4 Chimney	186 days	Tue 1/1/19	Mon 15/7/19
364	Complete erection of L10 Steel flue	0 days	Tue 1/1/19	Tue 1/1/19
365	Modification of erection equipment	21 days		Mon 21/1/19
366	Erection temp. platform and demolition work	30 days	Tue 22/1/19	
367	Structural steel delivery & Erection	85 days		Sun 26/5/19
368		-	Mon 27/5/19	
	Removal of temp. work	5 days		
369	Reinstate G/F louvre wall and access door	45 days	Sat 1/6/19	Mon 15/7/19

Refer to CEM dated 26March2019

Half 1, 2021

Fask Name	Duration	Start	Finish	-	Feb Mar
Section I - (i) 275kV cable trenching works connecting the 275kV Switching	232 days	Sun 15/9/19	Fri 15/5/20		
	0 days	Sun 15/9/19	Sun 15/9/19		
				-	
	-				
, ,	-):c.l((ii)
		Wed 1/4/20	Thu 31/12/20)	
	<u></u>				
	0 days	Sun 1/3/20	Sun 1/3/20		
Demolish of existing bund wall and staircases					
	-				
				-	
					d drainage and surface channel
					⊂ Con
				-	
	-			c.K	(1
					utilities work
	•				
					2
	<u>505 uays</u>	<u>1/10/1 1/0/20</u>	<u>WIUII 51/5/21</u>		T
	30 days	Mon 1/6/20	Tue 30/6/20		
					tilities work
	-				(3
	<u>025 uays</u>	<u>vvcu 0/1/20</u>	<u>111u 30/9/21</u>		T
	30 days	Wed 8/1/20	Sat 15/2/20		
				-	
· · · · ·					
				h	
					ated FS services
Final restatement of road & paving around MSB & HRSG	122 days		Thu 31/12/20		
Installation of trench covers and gratings after plant installation	122 days		Sun 28/2/21	-	Installation of trench covers and gratings
Installation of tranch covers and gratings after plant installation	151 uays		Thu 30/9/21		inclanation of the for the grating of
	Station Extension and L11 MSB at Area E9 (B) Obtain Permit to work & Road close permit Excavation & construction new cable trench Re-excavate cable trench for cable laying Section I - (ii) Interconnector 2 Trench Modification Works at Area E10 Obtain Permit to work & Road close permit Re-excavate & new cable trench for cable laying Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 4 Obtain permit to work & Road close permit Erection of Hoarding Removal of existing cover & structural steel Demolish of existing bund wall and staircases Demolish of existing slab & foundation Construction of new ork Construction of new oil separator Construction on-grade slab Removal of boarding and ground reinstatement Section K1 - External works at Area 15 (E) and 15(F) Removal of surcharge Construct new drainage and utilities work Road & Paving Section K2 - Removal of Southern Bund and External Works at Area D5, D6, and D7 Demolition work Construct new drainage and utilities work Road & Paving Section K3 - All remaining works shall be completed for reporting completion to B and ready for OP inspection (PS1.4.4)	Section 1 - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)232 daysObtain Permit to work & Road close permit0 daysExcavation & construction new cable trench160 daysRe-excavate cable trench for cable laying72 daysSection 1 - (ii) Interconnector 2 Trench Modification Works at Area E10275 daysObtain Permit to work & Road close permit0 daysRe-excavate & new cable trench for cable laying275 daysSection J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 4426 daysObtain permit to work & Road close permit0 daysErection of Hoarding21 daysRemoval of existing cover & structural steel30 daysDemolish of existing slab & foundation60 daysConstruction of new work30 daysConstruction of new oil separator80 daysConstruction of new oil separator80 daysConstruction on grade slab60 daysRemoval of surcharge30 daysConstruct new drainage and surface channel40 daysSection K1 - External works at Area 15 (E) and 15(F)365 davsRemoval of Surcharge30 daysConstruct new drainage and utilities work200 daysRemoval of Surcharge30 daysConstruct new drainage and utilities work200 daysRemoval of Southern Bund and External Works at Area D5, D6365 davsMemoval of Southern Bund and External Works at Area D5, D6365 davsSection K2 - Removal of Southern Bund and External Works at	Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)232 daysSun 15/9/19Obtain Permit to work & Road close permit0 daysSun 15/9/19Excavation & construction new cable trench160 daysMon 16/9/19Re-excavate cable trench for cable laying72 daysWed 1/4/20Obtain Permit to work & Road close permit0 daysWed 1/4/20Re-excavate & new cable trench for cable laying275 daysWed 1/4/20Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 4246 daysSun 1/3/20Obtain permit to work & Road close permit0 daysSun 1/3/20Re-excavate & new cable trench for cable laying21 daysSun 1/3/20Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 40 daysSun 1/3/20Obtain permit to work & Road close permit0 daysSun 1/3/20Erection of Hoarding21 daysSun 1/3/20Removal of existing slab & foundation60 daysFri 5/6/20Consent for new work30 daysTue 4/8/20Construction of new oil separator80 daysWed 23/9/20Construction on ergade slab60 daysThu 2/1/21Removal of hoarding and ground reinstatement40 daysSud 2/3/20Construct new drainage and utilities work200 daysWed 1/7/20Removal of sucharge30 daysMon 1/6/20Construct new drainage and utilities work200 daysWed 1/7/20Removal of sucharge30 days	Section I - (i) 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (B)232 daysSun 15/9/19Fri 15/5/20Obtain Permit to work & Road close permit0 daysSun 15/9/19Sun 15/9/19Sun 15/9/19Sun 15/9/19Excavation & construction new cable trench160 daysMon 16/9/19Wed 1/3/20Fri 15/5/20Section I - (ii) Interconnector 2 Trench Modification Works at Area E10275 daysWed 1/4/20Thu 31/12/20Obtain Permit to work & Road close permit0 daysWed 1/4/20Wed 1/4/20Wed 1/4/20Re-excavate & new cable trench for cable laying275 daysWed 1/4/20Wed 1/4/20Wed 1/4/20Re-excavate & new cable trench for cable laying275 daysWed 1/4/20Thu 31/12/20Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 4O daysSun 1/3/20Sun 1/3/20Obtain permit to work & Road close permit0 daysSun 1/3/20Sun 1/3/20Sun 1/3/20Construction of Hoarding21 daysSun 1/3/20Sun 1/3/20Sun 1/3/20Removal of existing slab & foundation60 daysTru 4/8/20Thu 4/6/20Construction of new onk30 daysSun 22/3/20Fri 11/1/2/20Construction of new bund wall and foundation100 daysThu 39/20Fri 11/1/2/20Construction of new bund wall and foundation100 daysSun 21/3/21Sun 21/3/21Construction on-grade slab60 daysThu 21/1/21Sun 21/3/21Removal of hoarding and ground reinstatement	Section 1 - (i) 275kV cable trenching works connecting the 275kV Switching. Station Extension and L11 MSB at Area E9 (B)232 daysSun 15/9/19Fri 15/5/20Obtain Permit to work & Road close permit0 daysSun 15/9/19Sun 15/9/19Sun 15/9/19Excavation & construction new cable trench160 daysMon 16/9/19Wed 4/3/20Re-excavate cable trench for cable laying72 daysThu 53/20Fri 15/5/20Section 1 - (ii) Interconnector 2 Trench Modification Works at Area E10275 daysWed 1/4/20Thu 31/12/20 e-JObtain Permit to work & Road close permit0 daysWed 1/4/20Thu 31/12/20 e-JSection 1 - (ii) Demolition of Retractable Cover A&B & (ii) Construction of new LOT 3 & 4276 daysSun 1/3/20Sun 1/3/20Obtain permit to work & Road close permit0 daysSun 1/3/20Sun 1/3/20Sun 1/3/20Removal of Existing cover & structural steel30 daysSun 1/3/20Sun 1/3/20Sun 1/3/20Demolish of existing slab & foundation60 daysThu 21/1/21Thu 3/1/22/00Construction of new work30 daysTue 4/8/20Wed 2/9/20Construction of new uol wall and foundation100 daysTue 3/9/20Fri 11/1/20Construction of new drig and ground reinstatement40 daysMon 16/20Mon 31/3/21Memoval of hoarding and ground reinstatement40 daysMon 16/20Mon 31/3/21Removal of surcharge30 daysMon 16/20Mon 31/3/21Mon 31/3/21Construct underground drianage and surface channel40 daysMon 16/20 <td< td=""></td<>

17-8002 Master Prog Rev 3

Task

Split Milestone 🔶

Summary 🛡 🛡

Page 8 of 8

	M dated 26March2019
Half 1, 2021	Apr
	Apr
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nstruction on-grade slab	
after plant installation	
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	タスク名	网络约3	開始日	轻了日	
		104468	- THOMASHY	Constant of C	
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 side 🔶 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 Tower Crane (PY) -06/22
1	MSB Full access	1日	20/07/01 (水)	20/07/01 (水)) PY cast the concrete of G/F
2 1113	H O Foundation around CCW-Cooler	1日	20/05/16(土)	20/05/16 (土)	MSB Full access 🐨 07/01
3	H/O Foundation around Transformer	18	20/07/01 (水)		H/O Foundation around CCW-Cooler 👁 05/15
1 00	O/B GT & GEN	10日	20/09/01 (火)		H/O Foundation arbund Trainsformer 🔷 07/01
5	Power Receiving	1日	21/02/01 (月)		O/B GT & GEN- 100 09/01
5, i	Hydrostatic test (Can't promise)	1日	21/05/31 (月)		Power Receiving
	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)	HRSCI 🕶
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)	20/01/13(月)	Packer setting
-	Unloading Short legs and Bottom casing	1日	20/01/04(土) 2	20/01/06(月)	Lay down Pipes under HRSG 😑
	Short legs setting	9日	20/01/09(木) 2	20/01/18(土)	Unloading Short legs and Bottom clasing 🗕
-	Prepare for installing Bottom casing	3日	20/01/16(木) 2	20/01/20(月)	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 guisset
-	Setting FL+2.5m floor structure	17日	20/01/30(木) 2		Setting and welding SCR bottom frame
	Insulation and lagging on Bottom casing	17日	20/02/17(月) 2		Setting FL+2.Sm 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
0.29	Lifting and installing Top casing	42日	20/06/30(火) 2		Lifting and installing Side (casing-
_	Lifting and installing SCR	42日	20/06/30(火) 2		Lifting and installing Top cashrg/ and installing Top cashrg/
	Lifting and installing AIG	2日	20/08/20(木) 2		Lifting and installing SORPI
	Unloading Side casing and Top Casing #2	18			Lifting and installing AIG
-			20/07/10(金) 2 20/07/16(士) 2		Unloading Side casing and Top Casing #20
	Installation of piping, header, support, EXP inside HRSG		20/07/16(木) 2		Installation of piping, header, support, EXP inside HITSG)
	Lifting and installing HRSG inlet duct	2日	20/08/25(火) 2		Lifting and installing HRSG Inlet duct
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

				6-Jul-2020 Rev
1年06月2021年07, 中旬下旬上旬中旬下	月 2021年08月 2021 旬上旬中旬下旬上旬中	年09月2021年10月 2021年 前下旬上旬中旬下旬上旬中旬	2022年 11月2021年12月2022年 11月2021年12月2022年 11月2021年12月2022年	-
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up to 31st-May-2 31	021			
		GT First Firing + 11/01- Synchronization	12/01	
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엄마				
	t i i i i			
	40144			

	9スク名	网网	開始日	終了日
	North aide stair frame & EV structure	90日	20/08/22(土)	20/12/04 (金)
	Setting FL+29m floor structure (Above tube bundle)	30日	20/10/01 (木)	20/11/04 (水)
	South side stair frame	60日	21/02/25(木)	21/05/05 (水)
	Setting roof structure (Including deferable structure)	120日	20/12/04 (金)	21/04/22 (木)
	Prepare unloading Tube bundle	10日	20/09/04(金)	20/09/16 (水)
	Unloading Tube bundle #1 (9set)	3日	20/09/16 (水)	20/09/18(金)
	Prepare installing Tube bundle #1 (9set)	5日	20/09/19(土)	20/09/24 (木)
	Period for the installation of Power Train	0日	20/09/24 (木)	20/09/24 (木)
1	Lifting and installing Tube bundle #1 (9set)	12日	20/09/25(金)	20/10/08 (木)
1	Unloading Tube bundle #2 (6set)	2日	20/10/10(土)	20/10/12(月)
	Prepare installing Tube bundle #2 (6set)	4日	20/10/13 (火)	20/10/16 (金)
	Lifting and installing Tube bundle #2 (6set)	6日	20/10/17(土)	20/10/26(月)
	Lifting Down commer piping (pre-assembling)	8日	20/09/01 (火)	20/09/09(水)
	Lifting and setting HP-Drum	1日	20/10/14 (水)	20/10/14 (水)
	Lifting and setting IP-Drum	1日	20/10/31 (土)	20/10/31 (土)
	Lifting and setting LP-Drum	1日	20/11/04 (水)	20/11/04 (水)
	Lifting and installing HRSG Outlet duct	2日	20/11/18 (水)	20/11/19 (木)
	Adjusting HDR level (HP)	10日	20/11/05 (木)	20/11/16(月)
	Adjusting HDR level (IP & LP)	15日	20/11/17(火)	20/12/03(木)
	Lifting and setting the silencer of HRSG	5日	21/04/23 (金)	21/04/28(水)
		180日	21/03/19 (金)	21/10/14 (木)
		21日	21/02/01(月)	
		90日	21/02/25 (木)	
		50日	21/04/13(火)	
		20日	22/01/06(木)	
		-		
	Lifting and hang Pipes (Left side of HRSG)	80日	20/07/16 (木)	20/10/16(余)
		90日	20/11/17(火)	
		90日	20/12/04(金)	
		40日	20/12/04(金)	
		60日	20/12/04(金)	
	Fitting and welding Pipes in range of Hydrostatic		20/12/04(金)	
	Fitting and welding Pipes out range of Hydrostatic		21/03/02 (火)	
		H	- 17 VOI VA (X)	
	Prepare for preassemble Side and Top Casing	10日	20/01/24 (金)	20/02/07/- አ
		30日	20/02/11(火)	
		30日	20/02/11(火)	
		3日	20/03/20 (金)	
		2日	20/03/24 (火)	
		38	20/07/27 (月)	
		88	20/07/30 (木)	
		日	20/06/20(土)	
	Preassembly HRSG Inlet duct	2日	20/06/25 (木)	0/08/25 (火)
	Prepare for preassembly HRSG Outlet duct 4	Η	20/09/28(月)	0/10/02 (金)
	Preassembly HRSG Outlet duct 4	0日	20/10/02 (金)	0/11/18(水)

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

1	タスク名	100100	開始日	转了日	Construction Schedule of Unit-11	
100		S12823		1	2020年 2021年	
0	Preassembly FL+29m floor structure #1	1813	20/08/01 (±)	20/08/22(±)		1年12) 中旬下1
-					Preassenbly FL*29m floor structure #1	
3	HRSG Exhaust duot	445日	20/02/01 (土)	21/07/02 (金)		E.
4	Make the condition for construction	5日	20/02/01 (土)	20/02/06 (木)		
5	Center line marking	5日	20/02/01 (土)	20/02/06 (木)	Make the condition for construction	l li
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(±)	Building structure in the part of ED4	
0	tier) Grouting structure for exhaust duct (Nearly stack)	10日	20/06/13(土)	20/06/24 (水)	Building structure 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)		Lifting and assembly the Elbow duct in EDA	
4	-	5日	20/08/17(月)		Preasembling other duct in ED4	
5		2日	20/06/15(月)		Lifting and connecting the duct of ED4	
6	Preasembling ED5, 6	70日	20/06/15(月)		Receiving Exhaust duct ED\$,6 -1	
7	Building structure in the part of ED5,6 (Above 2nd		20/08/22 (±)		Preasembling ED\$, b)	
8	tier)	7日	20/10/20(火)		Building structure in the part of EDS & (Allove 2nd tier)	
9		15日	20/10/31(土)		Period for the installation of tube bundes 📥	
0 612		55日	20/11/24(火)		Lifting and opprecting the dust of EDS,6	
650)	Grouting structure for exhaust duct (Horizontal)		21/02/16(火)		Blading structure in the part of EDI-3, and t	
2 (27)		2日	20/06/30(火)		Grouting structure for exhaust duct (Horizontal) 🚈	
3		120日	20/09/04(金)		Receiving Exhaust duist ED1-3.	
4 😻		25日	21/02/13(土)		Preassenbling ED1-b (T111111111111111111111111111111111111	
5 111		140日	21/01/21(木)		uiting and connecting the duct of EDI-0	
3		18日	20/10/30 (金)		Schffolding, welding, insulation)	
1		юн	207 10/ 00 (11/	20/11/13 (20/	Period of crane for vertical duct	
	Over Head Crane	75日	19/12/14(土)	20/03/13 (余)		
-		1日	19/12/17(火)		Over Head Crane 🛡 👘	
).).		16日	19/12/18 (水)		Check the location of installation	
e N		5日	19/12/14(土)		Lifting and setting the rail for OHC	
5 F		2日	19/12/20(金)		Prepare for preassembling OHC	
2 2		15日	19/12/23(月)		Unicading OHC material	
		4日	20/01/09(木)		Preasembly OHC	
		4日	20/01/14 (火)		Lifting and setting Aux. OHC Garter	
		4日 20日	20/01/18(土)		Lifting and setting Main. OHC Garter	
		25日	20/01/18(土)		Installing electrical equipment	11
		~~1	20/02/14(亚)	20/00/13(重)	Commissioning	
	Condenser	195 0	20/02/02/04	20/10/00 (ക)		
1		185日	20/03/03(火)		Condenser -	
		2日	20/03/09(月)		Center line marking	
		6日	20/03/11(水)		Chipping	
		4日	20/03/18 (水)		Setting packer and base plate	
	condenser	28日	20/03/11 (水)		Setting temporary rail and SARLIFT for installation condenser	
5	(Load test for SARLIFT)	1日	20/04/03 (金)	20/04/03 (金)	(Load test for SARLIFT) 1	1.0

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

	9スク名	2900	网始日	終了日	Construction Schedule of Unit-11
			and the second s	10000	3 # INS H 2019 # IN H 2019 # IN H 2019 # IN H 2019 # IN H 2020 #
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09月 2019年10月 2019年11月 2020年01月 2020年01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01月 2021年05月 2021年05月 2021年06月 2021年07月 2021年06月 2021年07月 2021年06月 2021年10月 2021年10月 2021年11月 2021年1 中旬下旬上前日1月 2021年11月 2011年11月 2011年11
37	[Civil]Excavate the access road	30日	20/03/03 (火)	20/04/05(日)	Preparation the lifting tool for the skirt. IN
38	Assembly the Unit carrier	4日	20/04/03 (金)	20/04/06 (月)	[Civil]Excavate the access road
39	Assembly the 750tonA/C	4日	20/04/03 (金)	20/04/06(月)	Assembly the Unit carrier
40 (17	Delivery date of condenser	2日	20/04/01 (水)	20/04/02 (木)	Aszembly the 750tonA/C
41	Remove packing material	3日	20/04/04 (土)	20/04/06(月)	Delivery date of condenser
42	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)	Installation Upper skirt
14	Fit up condenser skirt	3日	20/04/16 (木)	20/04/18(土)	Installation Lower skirt
45	Assembling and welding skirt	8日	20/04/20 (月)	20/04/28 (火)	Fit up cohdensor skirt
46	Remove rail for condenser skirt	1日	20/04/16 (木)	20/04/16 (木)	Assembling and welding skirt
47	Installation Condenser shell of lower	1日	20/04/17 (金)	20/04/17 (金)	Removo rail for cohdenspr skirt
48	Installation Condenser shell of upper	1日	20/04/18 (土)	20/04/18 (土)	Installation Condenser shell of fower
49	Disassembly the 750tonA/C	1日	20/04/18 (土)	20/04/18 (土)	Installation Condenser shell of upper
50	Dismantling SARLIFT and temporary rail	15日	20/04/20(月)	20/05/06 (水)	Disassembly the 750tonA/C
51	Assembling the scafolding around condenser shell	5日	20/04/27(月)	20/05/01 (金)	Dismanting SARUFT and temperary rate
52	Welding Condenser shell (outside / 1 layer)	5日	20/05/02 (土)	20/05/07 (木)	Assembling the scafolding around condenser shull
53	Fit up condenser skirt to condenser shell	3日	20/05/08 (金)	20/05/11 (月)	Welding Condenser shell (outside / 1 layer)
54	Installation the monorail of South side	20日	20/05/12 (火)	20/06/03 (水)	Fit up condenser skirt to condenser shell
5 📖	Hand over around condenser to civil working	30日	20/06/08(月)	20/07/11 (±)	Installation the mondrail of South side
56	Installation the condenser water box of South side	7日	20/07/13 (月)	20/07/20 (月)	Hand over around condenser to givil working
17	Installation the CW pipe	45日	20/07/21 (火)	20/09/10 (木)	Iristallation the condenser water box of South side 💼
58 📰	Assembling Exp.J	1日	20/09/21(月)	20/09/21 (月)	Installation the GW pipe
59	Welding Exp.J	10日	20/09/22(火)	20/10/02 (金)	Assembling Exp.J h
60					Welding Exp.J
11	GT/ST/Generator	535日	20/06/02 (火)	22/02/15 (火)	
2	Remove templates	14日	20/06/02 (火)	20/06/17(水)	GT/ST/Generator
3	Center line marking	5日	20/06/18 (木)	20/06/23 (火)	Center line matking
4	Chipping	10日	20/06/24 (水)	20/07/04(土)	
5	Packer setting	15日	20/07/06 (月)	20/07/22 (水)	Chipping
6	Setting the base plate	7日	20/07/23 (木)	20/07/30 (木)	Packer setting Internet Setting the base plate Set
7	Setting the bearing case	7日	20/07/31 (金)	20/08/07 (金)	
8	Lay down pipes under GT	1日	20/08/08 (土)	20/08/08 (土)	Setting the bearing case in the set of the s
9	Lay down pipes under ST	3日	20/08/10(月)	20/08/12 (水)	Lay down pipes under ST
0	IP/LP-MSV Lifting and setting	5日	20/08/05 (水)	20/08/10(月)	Improve pipes under St IP/LP-MSV Lifting and retting
1	Lifting and hanging EB01	1日	20/07/30 (木)	20/07/31 (金)	
2	Setting the Gantry system for GT	21日 :	20/08/03(月)	20/08/27 (木)	Lifting and hanging EB01 M Setting the Gantry system for GT
3	Load test for Gantry system	2日 :	20/08/27 (木)	20/08/29(±)	
4	GT O/B (with Gantry)	2日 :	20/09/01 (火)	20/09/02 (水)	Load top: for Gamby system #
5	Setting the Gantry crane for GEN	1日 :	20/09/03 (木)	20/09/03 (木)	GT 0/B (with Gampy) 09/02
6	GEN O/B (with Gantry)	2日 :	20/09/03 (木)	20/09/04 (金)	Setting the Gentry drame for GEN I
7	ST Lower casing O/B (with OHC)	2日 2	20/09/05 (土)	20/09/07(月)	GEN D/B (with Garby)
8	Dismantling the Gantry system	15日 2	20/09/08 (火)	20/09/24 (木)	ST Lower casing O/B (with 0HC)
9	Lifting and setting ST	31日 2	20/10/01 (木)	20/11/05 (木)	Dismitting the Gantry system
0	ST Rotor	1日 2	20/10/30(金)	20/10/30(金)	Lifting and setting ST-

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Appendix J

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	The latent of the				Construction Schedule of Unit-11
	9 ス ク名	刘問	開始日	終了日	
0				9年08月 2019年09月 2019年 中旬下旬上旬中旬下旬上旬中旬	2020年 2021年 10月 2019年11月 2020年01月 2020年01月 2020年01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06月 2020年06月 2020年10月 2020年11月 2020年11月 2021年12月 2021年12月 2021年10月 2021年03月 2021年05月 2021年06月 2021年06月 2021年07月 2021年08月 2021年09月 2021年10月 2021年11月 2021年11月 2021年12月 10日 約上 約申前下約上 前申前下約上 前申前
	HP-MSV lifting and setting	5日	20/10/31 (土)		199-MSM lifting and setting
	Assembly ST	51日	20/11/06(金)		Assembly SY-
	ST Upper Casing	1日	20/12/29 (火)		
5	First alignment of GT and GEN	25日	20/09/14(月)	20/10/12 (月)	First alignment of GT and DEN
	GT enclosure (Lower)	20日	20/10/31 (土)	20/11/23 (月)	GT enclopure (Lower)
	Assembly piping around GT	120日	20/11/11 (水)	21/03/30 (火)	Assembly piping around GT
	Assembly slipring of GEN	28日	20/11/11 (水)	20/12/12 (土)	Assembly ulpring of GEN
	Final alignment	20日	21/01/05(火)	21/01/27 (水)	Final digraphent
1	Assembly 3S clutch	15日	21/01/28(木)	21/02/13 (土)	Autembly 25 shtch
1	Joint coupling	10日	21/02/15(月)	21/02/25 (木)	
	Installation GT enclosure	80日	20/12/19(土)	21/03/22 (月)	Joint Couping
	Installation ST enclosure	80日	21/02/26(金)	21/05/29 (土)	Installation GT enclosure
	Blowing out	10日	21/11/10 (水)	21/11/20(土)	Installation ST enclosure
	Remove temporary strainer	20日	22/01/24(月)	22/02/15 (火)	
					Remove tempóra
	GT Air inlet	394日	20/07/06(月)	21/10/08 (金)	
-	Center line marking	2日	20/08/13 (木)	20/08/15 (土)	GT Air inlet 🖉
-	Setting the base plate	10日	20/08/15 (土)	20/08/27 (木)	Center line marking
	Preassembly the Air inlet duct	60日	20/07/06(月)	20/09/12 (土)	Setting the base plate mark
	Lifting and installation the Air inlet duct (Vertical)	25日	20/08/27 (木)	20/09/24 (木)	Preasambly the Air inlet duct I
	Welding Air inlet duct (Vertical)	50日	20/09/08 (火)	20/11/04 (水)	Lifting and installation the Air Inlet duct (Vertical)
	Lifting and installation the Air inlet filter	37日	20/10/07 (水)	20/11/18 (水)	Welding Air inlet duct (Verties)
	Welding Air inlet filter	70日	20/10/19(月)		Lifting and installation the Air Inlet Filter
	Lifting and assembly the Air inlet manifold	2日	20/11/06 (金)		Weiding Air Inter Hitory
	Lifting and installation the Air inlet duct (Horizontal)		20/11/09(月)		Lifting and essentially the Arrinict manifold Ph
	Automatic roller shutter	2日	20/11/18 (水)		Witing and installation the Air inlet duct (Horizontal) 🊈
-	Welding Air inlet duct (Horizontal)	25日	20/11/18 (水)		Automatic roller shutter
E 3	Filter element installation		21/10/02 (±)		Welding Air inlet duist (Horizontal)
			21, 10, 02 (1)		Filter element installation 🗮
A	Auxiliery Equipment (O/B)	353日?	20/04/28 (火)	21/06/12 (+)	
í		·C	20/06/09(火)		Auxiliary Equipment (O/B) 👽
	Chipping and pakker setting	10日	20/06/09(火)		
	H2 cooler	2日			Chipping and pakker acting 🚃
	Platform under the GEN	5日	20/07/31(金) 20/08/03(月)		H2 cooler
					Platform under the GEN 🎽
	Temp hanging Main Steam Piping	25日	20/07/30(木)		Temp hanging Main Steam Pipinghter and An
	Sampling lack	2日	20/11/03 (火)		Sumpling Jack
	2		20/11/05(木)		Light till drain unit: 194
	GT purge air compressor		20/11/07(土)		GT purge un compressor
	GT purge are reservoir		20/11/10(火)		GT purge are reserver 🙀
	Light oil flow divider unit & platform	22	20/11/12 (木)		Lipto of flow divider unit & platform 90 -
	GT Purge air unit	2日	20/11/12(木)	0/11/13 (金)	QT Purge air unite
	Fuel gas unit	2日	20/11/20(金) :	.0/11/21(土)	Fuel zap uni
	2 MSB Inside North-West	125日?	20/05/05 (火)	0/09/26 (土)	
	Chipping and pakker setting	10日	20/05/05 (火) 2	.0/05/16 (土)	Chipping and pakker setting

1. Change the starting date of installation below • Installation HRSG was re-started from 23rd-Jun

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

	スク名	利用	開始日	終了日		
					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05月 2021年05月 2011年011年015月 2011年11月 2011年11月 2011年11月 2011	
0	Preparation hauling equipment	4日	20/05/28 (木)	20/06/02(火)		1月,2022 F旬上旬注
	Condenser water box	3日	20/06/02 (火)	20/06/04 (木)	Preparation hauling equipment	
	Closed cooling water pump	2日	20/06/05(金)	20/06/06(土)	Condenser water box	
	Condenser vacuum pump	2日	20/06/08(月)	20/06/09 (火)	Closed cooling water pump	
	Dismantling hauling equipment	2日	20/06/10 (水)	20/06/11 (木)	Condenser vacuum pump	
	ST blow down tank	1日	20/06/10(水)	20/06/10 (水)	Øismantling hauling equipment	
	ST Blow down tank structure	1日	20/06/11 (木)	20/06/11 (木)	ST blow down tank	
	GT casing cooling fan	1日	20/06/12(金)	20/06/12 (金)	ST Blow down tank structure	
	GT compressor blade washing device	1日	20/06/12 (金)	20/06/12(金)	GT casing cooling fan	1
	Building MSB North streuture	40日	20/06/13(土)	20/07/29 (水)	GT congressor blade washing device	
3	Pre-assembly structure for Air inlet duct access	30日	20/08/01 (土)	20/09/04 (金)	Building MSB North structure	
	Building structure for Air inlet duct access	2日	20/09/25 (金)	20/09/26 (土)	Pre-assembly structure for Air inlet duct access.	
	Closed cooling water stand pipe	2日	20/09/25(金)	20/09/26 (土)	Building structure for Air inlet duct access	
	ST Blowdown pit sump pump	2日	20/06/10 (水)	20/06/11(木)	Closed coding water stand pipe 👔	
					ST Blowdown pit sump pump)	
	6 MSB Inside South-West	163日?	20/05/16(土)	20/11/21(土)		
	Chipping and pakker setting	10日	20/05/16(土)	20/05/27 (水)		
3	Condensate extraction pump	2日	20/06/15(月)	20/06/16 (火)	Chipping and pakker setting	
	CEP access stair	1日	20/06/15(月)	20/06/15(月)	Condensate extraction pump	
	Building MSB South strouture	25日	20/07/01 (水)		CEP access stair 1	
	Gland condenser	1日	20/07/07 (火)		Building MSB South streature/Millingure	
	Plant and Instrument air receiver	2日	20/07/27 (月)		Cland contenter	19
	Trip valve unit	1日	20/09/28(月)		Plant and Instrument air roceiver 24	
	Control oil unit	1日	20/09/28(月)		Trip Valve unit#	
	Seal oil unit	2日	20/07/31 (金)	20/08/01(±)	Control al unit 7	11
	Plant air compressor	2日	20/11/18 (水)		Seel oi lunit 🎽	
	Instrument air dryer	2日	20/11/20 (金)		Plant air compressor B	11
	CEP pit sump pump	2日	20/06/17 (水)		Instrument ar dryer	
	Condenser hotwell pit sump pump	2日	20/06/19 (金)		CEP pit sump pump	
				a (<u>1</u>)	Condenzer hotwell pit sump pump	
	Lube oil room	144日?	20/05/28 (木)	20/11/11 (7 k)		
	Chipping and pakker setting	10日	20/05/28 (木)			
	Disassemble structure	1日	20/07/31 (金)		Chipping and pakker setting	1 B
	Lube oil reservoir	1日	20/08/01(土)		Disassemble structure	11
	Assemble sturcture	1日	20/08/01(土)		Lube of reservoir1	
	Open floor	18	20/09/28(月)		Assemble sturctureM	
	Lube oil filter with sturcture	2日	20/09/29(火)			
	Lube oil cooler	1日	20/09/29(火)		Lube of filter with starcture	
	JOP for GEN	2日			Antono ili ondella	
	JOP for ST		20/10/01(木) :		WDP for GEN T	
		2日	20/10/01(木) :		JOP for ST	
		2日	20/10/01(木) :		Lube oil purifier unit T	
		2日	20/10/01(木) :		Lube of transfer pump	
	Lube oil accumulator	1日	20/10/01(木) :		Lube ell'accumulator	
	Close floor	1日	20/10/02(金) 2	20/10/02 (金)	Cloje floor	

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90	スク名	10100	開始日	終了日	Construction Schedule of Unit-11
			and H	107	2020年 2021年 2021年 2021年
Ø	TCA filter	18	20/11/11 (水)	20/11/11 (/k)	2020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05月 2020年05月 2021年05月 2021年15日 2011年15日 2011
					TCA filter I
	9 East of MSB	142日?	20/04/28 (火)	20/10/09 (金)	
	Chipping and pakker setting	15日	20/04/28 (火)	20/05/15 (金)	
619	Light Oil main pump unit	2日	20/05/15 (金)	20/05/16 (土)	Chipping and politice setting
	GT light oil last chance filter	2日	20/05/15(金)	20/05/16 (土)	Light (Gil main pump unit 1
	GT light oil drain tank unit	2日	20/06/01 (月)	20/06/02 (火)	QT light cillast chance filter
	Pipe rack from L10 to L11 (except around EB02)	45日	20/06/08(月)	20/07/29 (水)	OT light oil drain tank unit
-	Temp hanging Main Steam Piping	15日	20/07/30 (木)	20/08/15 (土)	Pipe rack from L10 to L11 (except around EB02)
	Building structure for EB02	12日	20/07/10 (金)	20/07/24 (金)	Temp hanging Main Steam Piping
	Preassembly E802	52日	20/05/01 (金)	20/06/30 (火)	Building structure for EB02 and
-	Lifting and installation EB02	2日	20/07/25 (土)	20/07/27 (月)	Preakcembly EB02
	Sound proof around EB02	30日	20/07/28(火)	20/08/31(月)	Lifting and installation EBQ2 20 .
i -	Pipe rack from L10 to L11 (Above EB02)	30日	20/09/01 (火)	20/10/05(月)	Sound proof anound EB02
	GT enclosure ventilation fan	2日	20/10/06 (火)	20/10/07 (水)	Pipe rack from L1D/to L11 (Above EB02)
	Oil mist separator unit	2日	20/10/08 (木)	20/10/09 (金)	GT enclosure ventilation fan
	Oily drain pit sump pump	4日	20/05/18(月)	20/05/21 (木)	Oil mint separator unit
	Chemical drain pit sump pump	4日	20/05/22(金)	20/05/26 (火)	Oily ≝rain pit sump pump i
					Chemical drain pit, auno pump 🎽
	10 North of HRSG	216日?	20/05/06 (7k)	21/01/12(火)	
	HRSG Blow down tank	2日	20/05/06 (水)	20/05/07 (木)	
	Chemical dosing system	2日	20/05/12(火)	20/05/13 (水)	HR SO Blow down tanke
	GT water injection system	2日	20/05/18(月)	20/05/19(火)	Chemical dosing system
	Lower Fuel gas heater	2日	20/06/03 (水)	20/06/04 (木)	GT water injection system
	Support structure for FGH	3日	20/06/05(金)	20/06/08(月)	Lower Fuel gas heater
	Upper Fuel gas Heater	2日	20/06/20 (土)	20/06/22 (月)	Support structure for FGH 🗯
	GT fuel gas flow meter	2日	20/07/30 (木)	20/07/31(金)	Upper Fuel gas Heater
	FGH Maintenance platform	15日	20/07/30 (木)	20/08/15(土)	GT fuel gas flow metering
	FWP sun shade	30日	20/07/30 (木)	20/09/02 (水)	FGH Maintenance platform
	Reserved feed water tank	14日	20/06/30(火)	20/07/15 (水)	FWP sun shade
**	Feed water pump	2日	20/08/01(土)	20/08/03(月)	Reserved feed water tank
0.52	LP-ECO Recirculation pump	2日	20/10/30 (金)	20/10/31(土)	Feed water pump
	Dry air system for HRSG	2日	20/10/30(金)	20/10/31 (土)	É ^D =ECO Recirculation pump=1
	HRSG Topping up pump	1日	21/01/09 (土)	21/01/11(月)	Ory air system for HRSOM
	HRSG blowdown pit sump pump	2日	20/05/15 (金)	20/05/16(土)	HRSG Topping up pump 💕
	HRSG Washing water sump pump	2日	21/01/11(月)	21/01/12(火)	HRSG blowdown pit sump pump II
				-	HRSG Washing water sump pump
1:	2 CCW cooler area	87日	20/05/15(金)	20/08/24(月)	
E	Chipping and pakker setting	10日	20/05/15(金)	20/05/26 (火)	
	Civil finish casting trench at west side of	1日	20/06/30 (火)	20/06/30 (火)	Chipping and pakker setting
	CCW-C area Sea water booster pump	4日	20/07/01 (水)	0/07/04 (土)	Civil finish casting trench at west side of CCW-C area in
	CW vent pump and seal water booster	4日	20/07/01 (水)	0/07/04(土)	Sew water booster pump
	Condenser tube cleaning unit	4日	20/07/01 (水)	0/07/04 (土)	CW vent pump and seal water booster
	CCW cooler	4日	20/07/01 (水)	0/07/04 (土)	Condenser tube cleaning unit.
	CCW cooler sun shade	20日	20/08/01(土) :		CGW cooler

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	タスク名	期間	開始日	終了日		
		1.5246.577	1940642	100000	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 2019年12月 2020年10月 2019年11月 2019年11月 2019年11月 2019年11月 2020年10月 2010年10月 2010年10月 2010年10月 2010年10月 2010年10月	<u>۴</u>
0	Sea water sump pump	4日	20/06/02 (火)	20/06/05 (金)	2022年 2022年 9年05月 2019年11月 2019年11月 2019年11月 2019年11月 2020年05月 2020年10月 2020年11月 2020年12月 2021年05月 2021年05日 2011年11月 2011年11日 2	#01月 2 何下句上
÷					aey water tump pump	
603	TCA cooler	2日	20/10/28 (水)	20/10/30(金)		
1	Dismantle the temporary slope at south side of HRSG	20日	21/02/01(月)	21/02/24 (水)	TCA dooler M	
2	CO2 Fire fighting	50日	21/04/16 (金)	21/06/12(土)	Disiminitie the temporary slope at south side of HRSO-IIIIIIII	
	UTAC system	90日	21/03/01 (月)	21/06/12(土)	002 Fire fighting a	
2	Silencer at MSB roof	3日	20/10/28 (水)	20/10/30 (金)	UTAC system	
	LPS to LMX LO transfer pump for U-11	2日	20/06/08(月)	20/06/09 (火)	Silencer at MSB roof/m	
đ.					LPS to LMX LO transfer pump for U=11	
5	Sea water intake area	52日	20/08/06 (木)	20/10/05(月)		
8	Marking center line	3日	20/08/06 (木)	20/08/10(月)	Sea wateriotake area	
	Chipping and pakker setting	7日	20/08/10(月)	20/08/18(火)	Marking ponter line	
3	Setting the baseplate	3日	20/08/18(火)	20/08/21(金)	Chipping and pakker setting	l le
	Grouting	15日	20/08/21 (金)		Setting the baseplate my	
-	Circulating water pump	10日	20/09/08 (火)		Grouting	
-		2日	20/09/19(土)		Circulating water pump hims.	
		2日	20/09/09 (水)		Circulating water pump cuttint piping 🖍	
-		3日	20/10/01 (木)		Auxiliary circulation water pump	
-		1日	20/10/05(月)		Electro chlornation plant.	
-		8日			Cathoolic protection T	
			20/09/22 (火)		Sorpen system 🎬	
	Screen wash water pump	2日	20/09/11(金)	20/09/12(土)	Screen wash water pump T	
1						
		70日	20/11/11 (水)		i de la constante de la constan	
		30日	20/11/11 (水)		Disminifing Old gentry crane	
	Assembling New gantry crane	30日	20/12/28(月)	21/01/30(土)	Assembling New gentry crane	
	11 Tranceformer area	183日	20/05/01(金)	20/11/30(月)	11 Tranceformer area	
	Preparation work in the area (If applicable)	53日	20/05/01 (金)	20/07/02 (木)	Preparation work in the area (If applicable)	
	Preparation the installation	25日	20/07/02(木)	20/07/30 (木)	Preparation the installation	
	Preparation for Generator transformer	10日	20/08/19 (水)	20/08/31(月)	Preparation for Generator transformer transformer	
	Generator tranceformer	3日	20/08/31(月)	20/09/02 (水)	Generator tranceformet M	
	Unit tanceformer	1日	20/08/01 (土)	20/08/01 (土)	Unit tanpeformer	
	SFC tranceformer	1日	20/08/03(月)	20/08/03(月)	SFC transformer	
1	Excitation tranceformer	1日	20/08/04 (火)	20/08/04 (火)		
	Auxiliary tranceformer	1日	20/08/05 (水)	20/08/05 (水)	Excitation traceformer is	
	Trans area oily drain sump pump	2日	20/07/25 (土)	20/07/27 (月)	Auxiliary transeformer	
	Transformer ancillaries	88日	20/08/20 (木)	20/11/30(月)	Trans area oliy drain sumpromo 31	
					Transformer ancillaries to a second	
ł	Electrical work	465日?	20/05/07 (木)	21/10/30(土)		
	Generator Ancillaries	110日	20/09/25 (金)	21/01/30(±)		
	Lifting IPB Bass & Suppoets	20日	20/10/08(木) :		Generator, Ancillaries	
			20/10/31(土) 2		Lifting IPB Bass & Supports S2222224	
		2日	20/08/29(土) 2		IFB Bass & Supports	
			20/09/01(火) 2		D/B GMCB	
			20/06/01(月) 2		IPB & GMCB (IN MSB 2F)	

Installation HRSG was re-started from 23rd-Jun

Installation Exhaust duct was re-started from15st-May

2. To consider that structure of Takasago portion is delayed

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Appendix J

8

92.08		XHON	開始日	終了日	Construction Schedule of Unit-11
		100-5	vendifficant.	2.00744	2020年 2021年 2021年
I 🛄 UPS,	Battery & Battery Charger (in MSB 4F)	79日	20/08/01 (土)	20/10/31(±)	
DCS	& Others (in MSB 5F)	78日	20/09/01 (火)	20/11/30(月)	
AC/E	DC Busduct	105日	20/10/01 (木)	21/01/30(土)	DCS 3 Others (in MSB 57)
HRSC	G Equipment	78日	20/08/01(土)	20/10/30(金)	
5 🔜 Local	I panel (GT/ST TB, Local control box etc)	155日	20/10/01 (木)	21/03/30 (火)	
6 Local	I Instrument Enclosure	182日	20/10/01 (木)	21/04/30(金)	Local panel (GT/ST TB, Local control box etc)
Cable	e Tray & Supports (Erectrical room of MSB)	165日	20/05/07 (木)	20/11/14 (土)	
B 🗰 Cable	e Tray & Supports (MSB – HRSG)	98日	20/08/11(火)	20/12/02 (水)	Cable Tray & Supports (Erectrical room of MSB)
Cable	e Tray & Supports (HRSG)	105日	20/10/01 (木)	21/01/30(土)	Cable Tray & Supports (MSB - HFSG)
Cable	e Tray & Supports (Chimney)	78日	20/11/02(月)	21/01/30(土)	Cable Tray & Supports (HRSG)
Ехроз	sed Cinduit (MSB)	130日	20/10/01 (木)	21/03/01(月)	Cabler Tray & Supports (Chimney) minimum and a support
2 📰 Expos	sed Cinduit (HRSG)	103日	21/02/01 (月)	21/05/31(月)	Exposed Cinduit (MSB)
Expos	sed Cinduit (Island equipment)	130日	21/02/01 (月)	21/07/01 (木)	Expised Cinduit (HRSQ)
	ng (for Power Receiving)	119日		20/12/31 (木)	Exposed Cinduit (Island equipment)
Cablin	ng (for MSB Local, to HRSG)	155日	20/11/02(月)	21/04/30(金)	Cabling (for Power Receiving) and a second
	ng (for HRSG)	132日		21/07/31(土)	Cabling: (for MSB Local; to HRSQ).
	ng (for Island equipment)	184日	21/03/01(月)		Cabling (for HRSQ)
1	ination & Cable check	365日	20/09/01 (火)		Cabling (for Island equipment)
1	ing System	339日		21/08/31(火)	Termination & Cable check
	Instrument	339日	20/09/01 (火)		Earthing System
	ment Piping & Tubing	262日	20/10/01 (木)		Local Instrument
	ment Calibration & Testing	365日	20/09/01 (火)		Instrument Piping & Tubing
			20,00,010,0	21710/00(11)	Instrument Calibration & Testing
Piping		392日	20/08/10(月)	91/11/10/74	
Piping Main F	Pining	244日	20/08/20(木)		Piole 🖝
	ound HRSG	150日	20/11/17(火)		Mair Piping
	rth side of MSB	222日	20/08/20 (木)		Around HRSOM
	uth side of MSB (around gland condenser)		20/09/15(火)		North side of MSB 1000
	ad piping	60日	20/11/06(金)		South side of MSB (around gland condenser)
	eparation Hydrostatic test				Lead piping Terrangenetic and the second
	drostatic test (Can't promise)	30日 1日	21/04/17(土)		Preparation Hydrostatio test
			21/05/31(月)		※TDK-challenge to m Hydrostatic test (Can't pron
		247日	20/08/10(月)		BOP for lube oil and cooling
		230日	20/08/10(月)		North side of MSB (ground CDW)
-	uth side of MSB (around Lube oil reservoir)		20/11/20(金)		South side of MSE (around Lube oil reservoir)
		1日	21/05/24(月)		Receiving Lube O
Others		230日	20/12/11 (金)		Others BOP
		230日	20/12/11 (金)		Others BOP
Assemb	bly the blowing out piping	日 08	21/08/09(月)	21/11/10 (水)	
Grane		480日	19/12/16(月)		Crane
	12/22/2017/2010/09-214115_10000	3日	20/01/03 (金)		Recombination of 500tonC/C 11
		10日	20/01/07 (火)		Operate 500tonC/C (with JIB)
		4日	20/01/18 (土)	20/01/22 (水)	Dismantling 500tonC/C
Assemb	bly 1250C/C	10日	20/02/14 (金)	20/02/25(火)	Assembly 1250C/C
Operate	e 1250tonC/C for HRSG	222日	20/02/26 (水)	20/12/09 (水)	Operate 1250tonC/C for HRSG

Installation HRSG was re-started from 23rd-Jun

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1 1	スク名	网络新	開始日	終了日		
					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2020年05月2020年05月2020年05月2020年05月2020年05月2021年01月2021年01月2021年01月2021年01月2021年05月2021年10月2021年11月2021年11月2022年05月2021年05月	
	Operate 1250tonC/C for GT Air Inlet	25日	20/08/27 (木)	20/09/24 (木)	中如下和上领中如下如上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中如下和上领中和下和上的和和下和上的和和下和上的和和和下和上的和和和下和	月 2022年03 旬上旬中旬下
	Operate 1250tonC/C with additional C/W for inlet	2日	20/08/25 (火)	20/08/26 (水)	Operate 1250tonC/C with additional C/W for inletX	111
-	Operate 1250C/C with additional C/W for tube bundle	27日	20/09/25(金)	20/10/26(月)	Operate 1250C/C with additional C/W for table	
	Dismantling 1250tonC/C	10日	20/12/10 (木)	20/12/21(月)		1 14
	Assembly 600tonC/C	4日	20/08/20 (木)	20/08/25 (火)	Dismantling 1250tonC/C ¹	111
	Operate 600tonC/C (without JIB)	54日	20/08/25(火)	20/10/26(月)	Assembly 500tonC/C	
	Dismantling 600tonC/C	4日	20/10/27 (火)	20/10/30(金)	Operate 600tor/C/C (without JB)	
	Assemby 750tonA/C for Condenser	4日	20/04/03 (金)	20/04/06(月)	Disminting 600ton0/C 🖬	
1	Operate 750tonA/C for Condenser	22日	20/04/07 (火)	20/05/01 (金)	Operate 750tonA/C for Condenser	
	Dismantling 750tonA/C for Condenser	2日	20/04/18(土)	20/04/20(月)		
	Assemby 500tonA/C for Exhaust duct	1日	20/10/29 (木)	20/10/30 (金)	Dismantling 750tonA/C for Condenser.	
	Operate 500tonA/G for Exhaust duct	17日	20/10/30(金)	20/11/18 (水)	Assemby 500tor/A/C for Exheust duct N	
	Operate 500tonA/C for HRSG outlet duct (Support)	1日	20/11/19(木)	20/11/19 (木)	Operate 500tonA/C for Exhautt duct	
		1日	20/11/20 (金)	20/11/20 (金)	Operate 500tonA/C for HRSG outlet dust (Support)	
	Assembly jib to 220tonA/C	2日	20/10/05(月)	20/10/07 (水)	Dismantling 500ton.A/C for Exhaust doot	
	Operate 220tonA/C with jib	52日	20/10/07 (水)	20/12/05 (土)	Assembly jib to 22DtonA/C M ⁴	
	Disassembly jib from 220tonA/C	2日	20/12/07(月)	20/12/08 (火)	Operate 220tonA/C with jbb	
	250ton A/C	400日	19/12/16(月)	21/03/27 (土)	Disassembly jib from 220tonA/C	111
	200tonA/C	480日	19/12/16(月)	21/06/29 (火)	250tor A/C	
					200ton A/C	
Eq	uipment for heavy lifting	190日	20/03/11 (水)	20/10/16 (金)		1.11
	SARLIFT	50日	20/03/11 (水)	20/05/06 (水)	Equipment for heavy lifting	
	Assembly the rail for SARLIFT	22日	20/03/11 (水)	20/04/04(土)	SARLIFT 1	
	Assembly the SARLIFT proper	日	20/04/05(日)	20/04/13 (月)	Assembly the reli for SARLIFT	1.11
	Dismantling the SARLIFT	15日	20/04/20(月)	20/05/06 (水)	Assembly the SAFULFT proper	
	Gantry system	46日	20/08/03(月)	20/09/24 (木)	Dismonting the SARLIFT	
	Assembly the Gantry for powertrain	21日	20/08/03(月)	20/08/26 (水)	Gantry system	
	Disassembly the Gantry	15日	20/09/08 (火)	20/09/24 (木)	Assembly the Gantry for powertrain	830
					Disassembly the Gantry -	
	Unit carrier	76日	20/03/27 (金)	20/10/16 (金)		
	Preparation for transportation the Condenser	日	20/03/27 (金)	20/04/01 (水)	Unit carrier	110
	Transportation the Condenser	日	20/04/01 (水)	20/04/02 (木)	Preparation for transportation the Condenser	8.11
	Disassembling Unit carrier	日	20/04/03 (金)	20/04/03 (金)	Transportation the Condenset	
	Assembling Unit carrier for Tube Bundle	日	20/09/15 (火)	20/09/16 (水)	Disassembling Unit, carrier	
	Transportation the Tube Bundle part1 5	B	20/09/16 (水)	20/09/21 (月)	Assembling Unit carrier for Tubo Bundle	
	Disassembling Unit carrier	Ħ	20/09/22 (火)	20/09/22 (火)	Transportation the Tube Bund's part	
	Assembling Unit carrier for Tube Bundle .1	B	20/10/09(金)	20/10/10 (土)	Disssembling Unit carrier	
	Transportation the Tube Bundle part2 5	H	20/10/10 (土)	20/10/15 (木)	Assembling Unit carrier for Tube Bundle	
	Disassembling Unit carrier 1	B	20/10/16 (金)	20/10/16 (金)	Transportation the Tube Bundle part2	
	Assembling Unit carrier for Power Train 3	H	20/08/21(金)	20/08/25(火)	Disassembling Unit carrier	
	Test operation for transportation of Power 1	Ħ	20/08/25 (火)	20/08/25(火)	Assembling Unit carrier for Power Train	
	lrain	B	20/08/31 (月)	20/09/01 (火)	Test operation for transportation of Power Train	
	Transporatation the Gas Turbine Proper 2		20/09/01 (火)		Transportation the Transformer	
			20/09/03 (木)		Transportation the Gas Turbine Property	
			20/09/05(土)	_	Transportation the Generator 1	

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Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12

MASTER PROGRAMME

	KEY DATES & MILESTONES	1123 days	Fri 4/12/20	Sun 31/12/23	Feb 2021 Mar 2021 Apr 2021
f	Contract Period Deferred Work Completion Key Dates	1123 days 784 days	Fri 4/12/20 Mon 8/11/21	Sun 31/12/23 Sun 31/12/23	
L	Substantial Completion of the Whole Contract Works (1123 Days)	0 days	Sun 31/12/23	Sun 31/12/23	
•	SITE POSSESSION DATES	<u>513 days</u>	<u>Fri 4/12/20</u>	<u>Sun 1/5/22</u>	
	Site Possession Date as phased site possesion plan and PS1.4.2 Site Possession Date as phased site possesion plan and PS1.4.2	0 days 0 days	Fri 4/12/20 Fri 1/1/21	Fri 4/12/20 Fri 1/1/21	on plan and PS1.4.2
	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Sat 1/5/21	Sat 1/5/21	
	Site Possession Date as phased site possession plan and PS1.4.2 Site 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	
	Site Possession Date as phased site possession plan and PS1.4.2	0 days	Sun 1/5/22	Sun 1/5/22	
	OMPLETION DATES as per PS1.4.2 Time for Completion Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to	609 days	Wed 30/6/21 Thu 30/9/21	Tue 28/2/23 Thu 30/9/21	
	Chimney Road at Area F1 & F2	0 days	1110 50/9/21	1 nu 30/9/21	
	Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the	0 days	Thu 30/9/21	Thu 30/9/21	
	associated roof structure except the roof deferred works	-			
	Section A2 (i) External Works including CW Inlet Culvert at Area F8A Section A2 (ii) External Works including CW Intet Culvert at Area F8B	0 days 0 days	Thu 30/9/21 Thu 31/3/22	Thu 30/9/21 Thu 31/3/22	
	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	0 days	Thu 31/3/22	Thu 31/3/22	
	Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	0 days	Wed 15/12/21	Wed 15/12/21	
	Area F5 Section B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 5	0 days	Tue 31/8/21	Tue 31/8/21	
	Section B2 (ii) - Remaining northern part of LI2 HRSG area and its surrounding at Area F6A and F6C	0 days	Mon 15/11/21	Mon 15/11/21	
	Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the	0 days	Sat 15/1/22	Sat 15/1/22	
	installation of power generator, air inlet duct and lube oil reservoir				
	Section B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit	0 days	Wed 15/12/21	Wed 15/12/21	
	and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation	-			
	of condenser				
	Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern areas mentioned above in Area F5	0 days	Sat 15/1/22	Sat 15/1/22	
	Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of	0 days	Sat 15/1/22	Sat 15/1/22	
	L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert	0 days	Sat 15/1/22	Sat 15/1/22	
	except the deferred works				
	Section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at	0 days	Sat 15/1/22	Sat 15/1/22	
	L11 MSB	0.1	W. 100///21	W-120/5/22	
	Section D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and antenna	0 days	Wed 30/6/21	Wed 30/6/21	
	Section D (ii) - No. 5 Chimney with L12 Steel Flue liner	0 days	Sat 30/4/22	Sat 30/4/22	
	Section E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building Section E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building	0 days 0 days	Sun 31/10/21 Mon 28/2/22	Sun 31/10/21 Mon 28/2/22]
	Section E (ii) - G/F, 1/F, 2/F & Hoisting Well of Admin. & Control Building Section E (iii) - Whole of Admin. And Control Building	0 days 0 days	Sat 30/4/22	Sat 30/4/22	
	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room	0 days	Thu 30/6/22	Thu 30/6/22	
	(GRS) Area Extension at Area F14 Setion F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	0 days	Tue 31/5/22	Tue 31/5/22	
	Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	0 days	Thu 30/6/22	Thu 30/6/22	
	Section G (i) - External Work surrounding Area F11 Section G (ii) - External Works at Area F12 & F13	0 days 0 days	Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22	41
	Section G (iii) - FS Modification works along South Seafront Road at Area F15	0 days	Fri 30/9/22	Fri 30/9/22	
	Section G (iv) - 275kV cable trenches and External Works at Area F16 Section G (v) - Shunt Reactor Compound and External Works at Area F17	0 days 0 days	Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22	
	Section G (vi) - 275kV cable trenches and External Works at Area F18	0 days	Wed 1/6/22	Wed 1/6/22	
	Section G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A Seciton G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	0 days 0 days	Thu 30/9/21 Fri 30/9/22	Thu 30/9/21 Fri 30/9/22	-
	Seciton G (ix) - Bund wall modification works at South Seafront Road at Area F21 Section G (x) - DAX Cable Diversion Works (from Part I to Part IV)	0 days 0 days	Wed 30/6/21 Sat 31/12/22	Wed 30/6/21 Sat 31/12/22	
	Section B - All remaining works shall be completed for reporting completion to BD and	0 days	Tue 28/2/23	Tue 28/2/23	
	ready for OP inspection				
(GENERAL & PRELIMINARY	<u>228 days</u>	Fri 4/12/20	Mon 19/7/21	
	First Mobilization Set up Temporary Site Office and Welfare Factiliites	18 days 90 days	Fri 4/12/20 Tue 22/12/20	Mon 21/12/20 Sun 21/3/21	Set up Temporary Site Office and Welfare Factiliites
	Permit Applications & Statuary Submissions	120 days	Mon 22/3/21	Mon 19/7/21	
	Existing Utilities scanning & Excavation Permit	45 days	Tue 22/12/20	Thu 4/2/21	Existing Utilities scanning & Excavation Permit
	Tower Crane erections	60 days	Sun 27/12/20	Wed 24/2/21	Tower Crane erections
I	ECHNICAL SUBMISSION AND APPROVAL	<u>314 days</u>	<u>Thu 10/12/20</u>		
	BD Approval & Consent (If required) Submission 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	
	Work Execuation Overal Plan submission & approval	14 days	Fri 11/12/20	Thu 24/12/20	11
	Material Submissions and approval	300 days	Fri 25/12/20 Fri 25/12/20	Wed 20/10/21 Wed 20/10/21	
	Method Statement submission and approval BIM Model, CSD & CBWD Submission & approval	300 days 120 days	Fri 25/12/20	Fri 23/4/21	
	Structure Steelwork Connection Design Submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21	Structure Steelwork Connection Design Submission & BD approval
	Structure Steelwork Shop Drawing & Approval	30 days	Fri 12/2/21	Sat 13/3/21	Structure Steelwork Shop Drawing & Approval
	Metal Cladding, louvre & windows submission & BD approval	45 days	Tue 29/12/20	Thu 11/2/21	Metal Cladding, louvre & windows submission & BD approval
	Metal Cladding, louvre & windows shop drawing submission Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	45 days 120 days	Fri 12/2/21 Mon 29/3/21	Sun 28/3/21 Mon 26/7/21	wetar Clauding, rouvre & Windows shop
	ELS Submission and BD approval	90 days	Fri 11/12/20	Wed 10/3/21	ELS Submission and BD approval
	No. 5 Chimney windshield temporary work submission, approval & fabrication	60 days	Fri 11/12/20	Mon 8/2/21	No. 5 Chimney windshield temporary work submission, approval & fabrication
	Steel Flue Assessment Report and Design Drawings submission & approval	60 days	Tue 9/2/21	Fri 9/4/21	Steel Flue Assessmer
	Folding Shutters Shop Drawing Submission & Approval	30 days	Thu 11/2/21	Fri 12/3/21	Folding Shutters Shop Drawing Submission & Approval
	Fabrication & Delivery of Folding Shutters	180 days	Sat 13/3/21	Wed 8/9/21	Sewage Pump System
		45 days 180 days	Tue 23/2/21 Fri 9/4/21	Thu 8/4/21 Tue 5/10/21	Sewage Pump System
	Sewage Pump System Design submission & approval				
	Sewage Pump System Design submission & approval Fabrication & Delivery of Sewage Pump	180 days	Sat 24/4/21	Wed 20/10/21	
	Sewage Pump System Design submission & approval Fabrication & Delivery of Sewage Pump Other material submission & approval & delivery Other material submission & approval & delivery	180 days 180 days	Sat 24/4/21 Sat 24/4/21	Wed 20/10/21 Wed 20/10/21	×
	Sewage Pump System Design submission & approval Fabrication & Delivery of Sewage Pump Other material submission & approval & delivery	180 days 180 days 1123 days	Sat 24/4/21 Sat 24/4/21 Fri 4/12/20	Wed 20/10/21 Wed 20/10/21 Sun 31/12/23	22 Mar '21 TDK
21	Sewage Pump System Design submission & approval Fabrication & Delivery of Sewage Pump Other material submission & approval & delivery Other material submission & approval & delivery	180 days 180 days	Sat 24/4/21 Sat 24/4/21	Wed 20/10/21 Wed 20/10/21	
24	Sewage Pump System Design submission & approval Fabrication & Delivery of Sewage Pump Other material submission & approval & delivery Other material submission & approval & delivery DNSTRUCTION Coordination with the Employer's Specialist Contractors	180 days 180 days 1123 days 421 days	Sat 24/4/21 Sat 24/4/21 Fri 4/12/20 <u>Mon 22/3/21</u>	Wed 20/10/21 Wed 20/10/21 Sun 31/12/23 Mon 16/5/22	
	Sevage Pump System Design submission & approval Fabrication & Delivery of Sewage Pump Other material submission & approval & delivery ObstructTOM ObstructToM Installation of Puddle Pipes at C.W. outlet Culvert Installation of Puddle Pipes at C.W. Inlet Culvert Template setting at L12 Turbo Block Foundation	180 days 180 days 1123 days 421 days 7 days 7 days 45 days	Sat 24/4/21 Sat 24/4/21 Fri 4/12/20 Mon 22/3/21 Mon 22/3/21 Tue 11/5/21 Thu 28/10/21	Wed 20/10/21 Wed 20/10/21 Sun 31/12/23 <u>Mon 16/5/22</u> Sun 28/3/21 Mon 17/5/21 Sat 11/12/21	
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Page 1 of 5

	htract No. 19/83002 Lamma Power Station Ex	Duration	Start	Finish		MASTER PF			
1	Subletting / Fabrication / Delivery (both for Area F8A-F8B)	30 days	Fri 18/12/20	Sat 16/1/21	Feb 2021 n / Delivery (both for Area F8A-F8B)	Mar 2021	Ap	r 2021	
	Area Possession & Clearance Install Sheet pile	14 days 55 days	Sat 2/1/21 Sat 16/1/21	Fri 15/1/21 Thu 11/3/21	rar ce	Install Sheet pile			
	BD Consent for ELS ELS and install CW Inlet Pipe (NW to N direction)	28 days 60 days	Fri 12/3/21 Fri 9/4/21	Thu 8/4/21 Mon 7/6/21	•		BD Conser	nt for ELS	s
	Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving	36 days 79 days	Tue 8/6/21 Wed 14/7/21	Tue 13/7/21 Thu 30/9/21					
	Section A2 (ii) External Works including CW Intet Culvert at Area F8B Area Possession & Clearance	483 days 30 days	Fri 4/12/20 Mon 1/2/21	Thu 31/3/22 Tue 2/3/21	Area Possessi	on & Clearance	-		
	BD consent for Sheetpile installation Install Sheet pile	30 days 90 days	Fri 4/12/20 Fri 2/4/21	Sat 2/1/21 Wed 30/6/21					
	BD Consent for ELS ELS and install CW Inlet Pipe	28 days 90 days	Thu 1/7/21 Thu 29/7/21	Wed 28/7/21 Tue 26/10/21					
	Construction of Thrust Box & Manholes,etc Backfill LIG Lifetime Road Paving	60 days 96 days	Wed 27/10/21 Sun 26/12/21	Sat 25/12/21 Thu 31/3/22					
	Section A2 (iii) External Works including CW Inlet Culvert at Area F8C	182 days	Fri 1/10/21	Thu 31/3/22					
	Area Possession & Clearance Subletting / Fabrication / Delivery (for Area F8C)	30 days 60 days	Fri 1/10/21 Fri 1/10/21	Sat 30/10/21 Mon 29/11/21	-				
	BD consent for Sheetpile installation	30 days 34 days	Fri 1/10/21 Sun 31/10/21	Sat 30/10/21 Fri 3/12/21					
	BD Consent for ELS	28 days	Sat 4/12/21	Fri 31/12/21					
	ELS and install CW Inlet Pipe Construction of Thrust Box & Manholes,etc	40 days 30 days	Sat 1/1/22 Thu 10/2/22	Wed 9/2/22 Fri 11/3/22					
	Backfill, UG Utilities and Road Paving Section B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road	20 days 377 days	Sat 12/3/22 Fri 4/12/20	Thu 31/3/22 Wed 15/12/21			_		
	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21					
	Subletting / Fabrication / Delivery Complete CW Pipe Installation & Thrust box	120 days 45 days	Fri 25/12/20 Fri 7/5/21	Fri 23/4/21 Sun 20/6/21			-		
	Backfill	14 days	Mon 21/6/21	Sun 4/7/21	-				
	Construction of Storm Drain & Manholes Temp Paving and handover for Condenser Move in	80 days 20 days	Tue 7/9/21 Fri 26/11/21	Thu 25/11/21 Wed 15/12/21	-				
	Section B2 - (i) Southern part of L12 HRSG area and its surrounding at Area F6B	243 days	Fri 1/1/21	Tue 31/8/21					
	including the foundations for Gas Exhaust Duct Area Possession & Clearance	30 days	Sat 2/1/21	Sun 31/1/21	Area Possession & Clearance				
	Subletting / Fabrication / Delivery (for F6B Civil and E&M)	120 days	Sat 2/1/21	Sat 1/5/21		nation of Hadevennest - Mr	<u> </u>		_
	Construction of Underground pits Excavation & Construct Pile Caps & Tie Beams & Piers	35 days 60 days	Mon 1/2/21 Mon 8/3/21	Sun 7/3/21 Thu 6/5/21	Const	uction of Underground pits			
	Construction HRSG & Gas Duct foundations	45 days	Fri 7/5/21	Sun 20/6/21					
-	Construction of HRSG Equipment Room incl. ABWF & BS (except T&C) Construction underground utilities within HRSG	150 days 45 days	Sun 4/4/21 Wed 28/4/21	Tue 31/8/21 Fri 11/6/21		×			
	Backfill & Construction on-grade slabs & RC plinths on top	60 days	Sat 12/6/21	Tue 10/8/21	11				
	Backfill and Temporary paving Section B2 (ii) - Remaining northern part of LI2 HRSG area and its surrounding at Area F6A and F6C	21 days 319 days	Wed 11/8/21 Fri 1/1/21	Tue 31/8/21 Mon 15/11/21	-[]]				
	Area Possessiong and Clearance at Area F6A	30 days	Sat 2/1/21	Sun 31/1/21	Area Possessiong and Clearance at Area F6A				
	Subletting / Fabrication / Delivery (for Area F6A and F6C civil) Construction of Underground pits	90 days 30 days	Sat 2/1/21 Sat 2/1/21	Thu 1/4/21 Sun 31/1/21	Construction of Underground pits		/ Fabricatio		
-	Excavation & Construct Pile Caps & Tie Beams & Piers Construction underground utilities within HRSG	60 days 21 days	Mon 1/2/21 Fri 2/4/21	Thu 1/4/21 Thu 22/4/21		Excavation	n & Constru	ct Pile Ca	aps
	Backfill & Construction on-grade slabs & RC plinths on top Construct RC Walls	21 days 90 days	Fri 23/4/21 Fri 4/6/21	Thu 13/5/21 Wed 1/9/21					Ĭ
	Construction of Underground utilities at F6C	60 days	Thu 2/9/21	Sun 31/10/21					
	Backfill and Temporary paving Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor	15 days 408 days	Mon 1/11/21 Fri 4/12/20	Mon 15/11/21 Sat 15/1/22					
	together with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil 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	learance				
	Complete excavation at Type A&C Construction Area	0 days	Sat 30/1/21	Sat 30/1/21	Complete excavation at Type A&C Construction Area			_	
	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North) Backfill and construction turbine block & equipment foundation	75 days 40 days	Sun 31/1/21 Tue 1/6/21	Thu 15/4/21 Sat 10/7/21				Excavation	ion 8
	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	40 days 45 days	Sat 17/4/21	Mon 31/5/21	-		· ·	t	
	Construction of internal drainage & on-grade slab Construction turbine block columns and upper portion for plant embed installation	30 days 21 days	Sun 11/7/21 Tue 7/9/21	Mon 9/8/21 Mon 27/9/21	-				
	Concrete Turbine upper part foundation & clear falsework	30 days	Tue 28/9/21	Wed 27/10/21					
	Construction of Lube Oil Room Concrete RC walls	45 days 50 days	Thu 28/10/21 Tue 7/9/21	Sat 11/12/21 Tue 26/10/21					
	ABFW Works	30 days	Thu 4/11/21	Fri 3/12/21					
	Building Services Works Remove temporary falsework and scaffolding for installation of power generator	45 days 13 days	Fri 19/11/21 Mon 3/1/22	Sun 2/1/22 Sat 15/1/22	-				
	Section B2 - (iv) G/F of L12 MSB including the Condenser Pit. Circulating Water Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the	<u>377 days</u>	Fri 4/12/20	Wed 15/12/21					
	installation of condenser								
	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	learance				
+	Subletting / Fabrication / Delivery (for MSB L12 civil) Excavation to foundation level at ELS SP Type A & C	150 days 30 days	Fri 25/12/20 Fri 1/1/21	Sun 23/5/21 Sat 30/1/21	Excavation to foundation level at ELS SP Type A & C				
	Install CW Outlet pipe	30 days	Sun 31/1/21	Mon 1/3/21	Install CW Outle	t pipe Construction of CW Outlet E		t tie hear	
+	Construction of CW Outlet Box + lowest tie beam & caps Construction of pile caps & tie beams & sump pits up to +2.5mPD	50 days 26 days	Sun 31/1/21 Mon 22/3/21	Sun 21/3/21 Fri 16/4/21		+		Constru	
	Backfill & Construction of CW Inlet Box + tie beams	24 days	Sat 17/4/21	Mon 10/5/21				*	
	Construction of pile caps & tie beams at SunShadeCover Area Backfill and Construction ground beams & trenches & equipment foundations	18 days 14 days	Tue 11/5/21 Tue 11/5/21	Fri 28/5/21 Mon 24/5/21					
1	Construction of indoor underground drainage	14 days	Tue 25/5/21	Mon 7/6/21					
	Backfill & construction on-grade slabs	18 days	Tue 8/6/21	Fri 25/6/21					
	Construction Column casting and RC walls ABFW Works	50 days 16 days	Thu 29/7/21 Fri 17/9/21	Thu 16/9/21 Sat 2/10/21					
	Building Services Works Mis. Works and Ready for condenser move in	45 days 29 days	Sun 3/10/21 Wed 17/11/21	Tue 16/11/21 Wed 15/12/21					
	Section C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern areas mentioned above in Area F5	408 days	Fri 4/12/20	Sat 15/1/22			-		
	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 60 days	Wed 28/7/21 Thu 29/7/21	Wed 28/7/21 Sun 26/9/21	41				
	Construction of cable trenches	90 days 21 days	Mon 27/9/21 Sun 26/12/21	Sat 25/12/21 Sat 15/1/22	11				
t	Backfill and lay temporary paving Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south	21 days 408 days	Sun 26/12/21 Fri 4/12/20	Sat 15/1/22 Sat 15/1/22					
	facade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works								
ſ	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	learance				
F	Subletting / Fabrication / Delivery Construction of pile caps & tie beams at Transformer Area	120 days 30 days	Fri 25/12/20 Sun 31/1/21	Fri 23/4/21 Mon 1/3/21	Construction of	pile caps & tie beams at Transformer Area			T
1	Backfill and on-grade slab at transformer Area Construction of Fire Walls at Transformer Area	21 days 45 days	Tue 2/3/21 Tue 23/3/21	Mon 22/3/21 Thu 6/5/21]	Backfill and on-grade slab	at transfor	mer Area	
	Excavation & Construction Blow Down Sum pit (SP Type B)	50 days	Thu 25/2/21	Thu 15/4/21	*			Excavatio	ion i
-	Preaparation for S.Steelwork Erection Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	7 days 35 days	Fri 23/4/21 Fri 30/4/21	Thu 29/4/21 Thu 3/6/21	41				
	Structural Delivery & Erection (Turhine Hall North fr G.L. 1-5/H->B) Structural Delivery & Erection (Equipment Floors)	55 days	Fri 30/4/21 Fri 4/6/21	Wed 28/7/21	11				
	Structural Delivery & Erection (Turbine Hall South + East Elevation)	40 days	Thu 29/7/21	Mon 6/9/21					
-	Joint Tightening and touch up coating External Scaffolding Erection	145 days 150 days	Fri 4/6/21 Fri 4/6/21	Tue 26/10/21 Sun 31/10/21	1				
	Construction 1/F RC Slab	14 days	Thu 29/7/21	Wed 11/8/21					
	Construction 2/F RC Slab	18 days	Thu 12/8/21	Sun 29/8/21	- 1				
-	Construction 3/F RC Slab Construction 4/F RC Slab	18 days 18 days	Mon 30/8/21 Fri 17/9/21	Thu 16/9/21 Mon 4/10/21	11				
	Construction 5/F RC Slab	18 days	Tue 5/10/21	Fri 22/10/21					
	Construction 6/F RC Slab	14 days	Sat 23/10/21	Fri 5/11/21	11				
	Construction Upper Roof RC Slab Construction Main Roof RC Slab	10 days 25 days	Sat 6/11/21 Tue 7/9/21	Mon 15/11/21 Fri 1/10/21	11				
	Construction Defer Roof RC Slab (G.L. G-H)	14 days	Mon 8/11/21	Sun 21/11/21					
	Construction of Staircase ST-01 & lift shaft & machine room	150 days	Fri 4/6/21	Sun 31/10/21	- 1				
	Construction M/F RC Slab Lift Installation	14 days 75 days	Tue 3/8/21 Mon 1/11/21	Mon 16/8/21 Fri 14/1/22	11				
	Construction of Staircase ST-02 except defer work	75 days	Fri 17/9/21	Tue 30/11/21					
1	Construction of RC plinth, kerbs & parapet Walls Erection of Skylight & Roof Features	75 days 56 days	Sat 2/10/21 Sat 2/10/21	Wed 15/12/21 Fri 26/11/21	11				
٠.		JU uays	Gat 2/10/21	Sat 15/1/22	11		1		

	sk Name	Duration	Start	Finish	Feb 2021 Mar 2021 Apr 202	1
9	ABFW Works Building Services Works	120 days 135 days	Thu 12/8/21 Thu 2/9/21	Thu 9/12/21 Fri 14/1/22	Apr 202	
	Metal Cladding, Windows and Louvres incl. roof feature	145 days	Fri 25/6/21	Tue 16/11/21		
	Removal of external scaffolding	95 days	Tue 24/8/21 Fri 26/11/21	Fri 26/11/21		
	Installation of Catwalk at south elevation Cladding, ABWF & BS Works	21 days 30 days	Fri 17/12/21	Thu 16/12/21 Sat 15/1/22		
	Removal of tempoary works & clearance for plant erection contractor Section C - (iii) Link Bridge between L11 and L12 MSB includin their associated	30 days 408 days	Fri 17/12/21 Fri 4/12/20	Sat 15/1/22 Sat 15/1/22		
	A&A at L11 MSB BD Consent	0 days	Fri 4/12/20	Fri 4/12/20		
	Subletting / Fabrication / Delivery (For BS and ABWF)	250 days	Fri 25/12/20	Tue 31/8/21		
-	Clearing Works and plant set-up Dismantle of north scaffold for link bridge erection	30 days 0 days	Mon 16/8/21 Tue 24/8/21	Tue 14/9/21 Tue 24/8/21		
1	A&A works at South of L11 MSB	30 days	Tue 24/8/21	Wed 22/9/21		
2	Erection of link bridge structural steel	30 days 11 days	Thu 23/9/21 Sat 23/10/21	Fri 22/10/21 Tue 2/11/21		
1	Casting of bridge deck Metal roofing installation	24 days	Wed 3/11/21	Fri 26/11/21		
5	ABWF work	30 days	Sat 27/11/21	Sun 26/12/21		
5	BS Works Ready for power cable laying work by others	20 days 0 days	Mon 27/12/21 Sat 15/1/22	Sat 15/1/22 Sat 15/1/22		
_	Section D - (ii) No. 5 Chimney with L12 Steel Flue Liner	485 days	Fri 1/1/22	Sat 13/1/22 Sat 30/4/22		
9	Area Possession & Clearance	45 days	Fri 1/1/21	Sun 14/2/21	Area Possession & Clearance	
1	Subletting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment) Excavation & Pile Cap & Backfill + Ground slab	120 days 45 days	Fri 8/1/21 Sat 2/1/21	Fri 7/5/21 Mon 15/2/21	Excavation & Pile Cap & Backfill + Ground slab	
2	Tower Crane erection (Optional)	28 days	Tue 19/1/21	Mon 15/2/21	Tower Crane erection (Optional)	
	Construction of Wind Shiled + clearance for internal floors and flue Structural steel fabrication & Delivery for floors and staircase	150 days 90 days	Tue 16/2/21 Sat 10/4/21	Thu 15/7/21 Thu 8/7/21		-
	Erection of steel floors	60 days	Wed 9/6/21	Sat 7/8/21		_
i	Construction of G/F room incl. Microwave Antenna Rm Construction of 1/F RC slab	45 days 14 days	Mon 17/5/21 Sun 8/8/21	Wed 30/6/21 Sat 21/8/21		
-	Construction of 2/F RC slab Construction of 3/F RC slab	14 days 16 days	Sun 22/8/21 Sun 5/9/21	Sat 4/9/21 Mon 20/9/21		
)	Construction of 4/F RC slab Construction of 5/F RC slab	16 days 18 days	Tue 21/9/21 Thu 7/10/21	Wed 6/10/21 Sun 24/10/21		
	Construction of Roof RC slab	18 days	Mon 25/10/21	Thu 11/11/21		
8	Steel Flue fabrication and delivery Set up for steel flue installation	145 days 14 days	Fri 9/7/21 Wed 1/12/21	Tue 30/11/21 Tue 14/12/21		
5	Lift & install steel flue liner + cladding works Section D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for installation of r	90 days 209 days	Wed 15/12/21 Fri 4/12/20	Mon 14/3/22 Wed 30/6/21		
	Remaining ABWF & BS Works	100 days 90 days	Fri 12/11/21 Fri 12/11/21	Sat 19/2/22 Wed 9/2/22		
	Installation Louvre & Doors	30 days	Tue 15/3/22	Wed 13/4/22		
	Mis works, Demobilization and ready for gas duct connection Section E - (iii) Administration and Control Building	17 days 513 days	Thu 14/4/22 Fri 4/12/20	Sat 30/4/22 Sat 30/4/22		
2	Area Possession & Clearance + BD consent	60 days	Fri 4/12/20	Mon 1/2/21	Area Possession & Clearance + BD consent	
1	Subletting / Fabrication / Delivery (For Civil+BS+ABWF) Excavation works	21 days 45 days	Fri 25/12/20 Fri 4/12/20	Thu 14/1/21 Sun 17/1/21	ivery (For Civil+BS+ABWF)	
5	Main Earth Grid Installation Pile cap and Tie Beam	45 days 45 days	Sun 3/1/21 Sun 3/1/21	Tue 16/2/21 Tue 16/2/21	Main Earth Grid Installation Pile cap and Tie Beam	
	Triver Crane Erection Substructure + Bearing walls + On grade slabs	30 days 30 days	Wed 10/2/21 Wed 17/2/21	Thu 11/3/21 Thu 18/3/21	Tower Crane Erection	
)	Construction of RC up to 1/F incl. staircases	50 days	Fri 19/3/21	Fri 7/5/21	Substructure + Bearing walls + On grade slabs	
1	Construction of RC up to 2/F incl. staircases Construction of RC up to 3/F incl. staircases	55 days 55 days	Sat 8/5/21 Fri 2/7/21	Thu 1/7/21 Wed 25/8/21		
2	Tempoary Hoist erection Construction of RC up to 4/F incl. staircases	14 days 30 days	Thu 26/8/21 Thu 26/8/21	Wed 8/9/21 Fri 24/9/21		
1	Construction of RC up to R/F incl. staircases	30 days	Sat 25/9/21	Sun 24/10/21		
5	Construction of RC up to lift machine room Construction of RC up to UR/F	21 days 21 days	Mon 25/10/21 Mon 15/11/21	Sun 14/11/21 Sun 5/12/21		
7 B	External Wall Finish, Cladding + Windows and Louvres + Features Removal of external scaffolding	100 days 45 days	Sat 25/9/21 Mon 3/1/22	Sun 2/1/22 Wed 16/2/22		
9	Waterproofing & screeding ABWF at G/F	60 days 120 days	Mon 6/12/21 Sat 29/5/21	Thu 3/2/22 Sat 25/9/21		
1	Section E (i) Complete Transformer Room for move in	60 days	Thu 2/9/21	Sun 31/10/21		
2	Clearing Works and plant set-up Subletting / Fabrication / Delivery (For NSC Lift)	21 days 180 days	Sun 31/10/21 Fri 25/12/20	Sat 20/11/21 Tue 22/6/21		
14	ABWF at 1/F ABWF at 2/F	100 days 100 days	Mon 26/7/21 Sat 18/9/21	Tue 2/11/21 Sun 26/12/21		
16 17	ABWF at 3/F ABWF at 4/F	120 days 90 days	Mon 25/10/21 Wed 24/11/21	Mon 21/2/22 Mon 21/2/22		
18	ABWF at R/F	60 days	Wed 15/12/21	Sat 12/2/22		
9	ABWF at UR/F + Lift Machine Room Bridge Erection & Connection	45 days 50 days	Wed 5/1/22 Mon 7/2/22	Fri 18/2/22 Mon 28/3/22		
2	Building Services Works Submission of WW046 for completion	160 days 60 days	Wed 3/11/21 Wed 17/11/21	Mon 11/4/22 Sat 15/1/22		
3	Installation of Raised floors False ceiling after BS works	60 days 60 days	Fri 7/1/22 Tue 25/1/22	Mon 7/3/22 Fri 25/3/22		
15	Section E (ii) Handover G/F, 1/F, 2/F & Hoisting Well	0 days	Mon 28/2/22	Mon 28/2/22		
16 17	Subletting / Fabrication / Delivery (For BS+ABWF) Construction of New UG Grey Water Tank	149 days 60 days	Tue 14/9/21 Mon 7/2/22	Wed 9/2/22 Thu 7/4/22		
18	Removal of Tower Crane External utilities and road work	7 days 45 days	Thu 10/3/22 Mon 24/1/22	Wed 16/3/22 Wed 9/3/22		
10 11	Submission of WW046 for completion Submission of FS inspection	30 days	Tue 8/2/22	Wed 9/3/22 Mon 25/4/22		
2	Submisision for OP Inspection	14 days 14 days	Tue 12/4/22 Sun 17/4/22	Sat 30/4/22		
	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14	426 days	Sat 1/5/21	Thu 30/6/22		1
	Area Possession & Clearance + BD consent	90 days	Sat 1/5/21	Thu 29/7/21		
	Subletting / Fabrication / Delivery Plate load test	60 days 30 days	Sat 22/5/21 Sat 1/5/21	Tue 20/7/21 Sun 30/5/21		
7	Construction Equipment room extension	145 days	Mon 31/5/21	Fri 22/10/21		
3	Modification of existing drainage Excavation & earthing for Skid foundations	45 days 21 days	Sat 23/10/21 Tue 7/12/21	Mon 6/12/21 Mon 27/12/21		
)	Construction of Skid foundation Construct underground utilities and drainage	45 days 45 days	Tue 28/12/21 Fri 11/2/22	Thu 10/2/22 Sun 27/3/22		
2	Backfill and road works	60 days	Mon 28/3/22 Fri 27/5/22	Thu 26/5/22		
1	Relocate / install new fencing for completion Mis. Work and ready for OP inspection	21 days 14 days	Fri 27/5/22 Fri 17/6/22	Thu 16/6/22 Thu 30/6/22		
	Section F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	515 days	Sat 2/1/21	Tue 31/5/22		_
;	BD consent + Site Possession at Area F9A & F9B	90 days	Sat 2/1/21	Thu 1/4/21	BD consent + Site Possessi	on at
7	Excavation & Plate load test	45 days	Fri 1/10/21	Sun 14/11/21		
B 9	Construction new footing for pipe rack Underground utilities and road works for completion	45 days 72 days	Mon 15/11/21 Thu 30/12/21	Wed 29/12/21 Fri 11/3/22		
)	Structural Steel fabrication & Delivery	90 days	Sun 12/12/21	Fri 11/3/22		
2	Ercetion of new pipe rack Mis. Work and ready for OP inspection	60 days 21 days	Sat 12/3/22 Wed 11/5/22	Tue 10/5/22 Tue 31/5/22		
	Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at	273 days	<u>Fri 1/10/21</u>	Thu 30/6/22		
1	Area F10 Area Possession & Clearance + BD consent	90 days	Fri 1/10/21	Wed 29/12/21		
5	Subletting / Fabrication / Delivery For ABWF + BS	150 days	Fri 1/10/21	Sun 27/2/22		
6 7	Excavation & Plate load test Construction new footing for equipment room	30 days 45 days	Sat 16/10/21 Mon 15/11/21	Sun 14/11/21 Wed 29/12/21		
3	Superstructure for equipment room ABWF Works	90 days 70 days	Thu 30/12/21 Wed 30/3/22	Tue 29/3/22 Tue 7/6/22		
0	BS Works	90 days	Sat 2/4/22	Thu 30/6/22		
1	Construction RC Wall & plinths & drainage at Chlorinator area External wall finish & remove scaffolding	45 days 30 days	Wed 30/3/22 Sat 14/5/22	Fri 13/5/22 Sun 12/6/22		
3 4	Excavation & Plate load test for pipe rack extension Construction new footing for pipe rack	30 days 45 days	Sat 16/10/21 Mon 15/11/21	Sun 14/11/21 Wed 29/12/21		
5	Underground utilities and road works for completion Structural Steel fabrication & Delivery	60 days 90 days	Thu 30/12/21 Tue 30/11/21	Sun 27/2/22 Sun 27/2/22		
7	Backfilling and prepare for steel erection	8 days	Mon 28/2/22	Mon 7/3/22		
3	Ercetion of new pipe rack Mis. Work and ready for OP inspection	70 days 15 days	Tue 8/3/22 Tue 17/5/22	Mon 16/5/22 Tue 31/5/22		
	Section G (i) - External Work surrounding Area F11	153 days	Sun 1/5/22	Fri 30/9/22		
2	Area Possession & Clearance after handover from No. 5 Intake Contractor Subletting / Fabrication / Delivery	30 days 30 days	Sun 1/5/22 Sun 1/5/22	Mon 30/5/22 Mon 30/5/22		
3	Submission WWO046 for commencement Construct Underground utilities and drainage	30 days 30 days	Sun 1/5/22 Sun 1/5/22	Mon 30/5/22 Mon 30/5/22		
5	Install new FS Hydrant	20 days	Tue 31/5/22 Mon 20/6/22	Sun 19/6/22 Tue 19/7/22		
6 7	Submission WWO046 for completeion Construction Road extension	30 days 58 days	Mon 20/6/22	Tue 16/8/22		
8	Construction road paving and install fencing Ready for OP inspection	30 days 15 days	Wed 17/8/22 Fri 16/9/22	Thu 15/9/22 Fri 30/9/22		
0	Section G (ii) - External Works at Area F12 & F13 Area Possession & Clearance after handover from other	666 days 45 days	Fri 4/12/20 Fri 4/12/20	Fri 30/9/22 Sun 17/1/21	rance after handover from other	
1 2 3	Subletting / Fabrication / Delivery	180 days	Thu 4/3/21 Sat 23/10/21	Sun 1//1/21 Mon 30/8/21 Fri 12/11/21		_
3	Excavation Submission WWO046 for commencement	21 days 30 days	Sat 23/10/21 Sat 13/11/21	Fri 12/11/21 Sun 12/12/21		
	ED MASTER PROGRAMME Paul Y Task Split		···· Milestone ♦	Su	ary 🖉	

Tas	tract No. 19/83002 Lamma Power Station Ex	Duration	Start	Finish	Feb 2021 Mar 2021 Apr 2021
	Construct Underground utilities and drainage Install new FS Hydrant	90 days 30 days	Mon 13/12/21 Sun 13/3/22	Sat 12/3/22 Mon 11/4/22	Not 2021 Apr 2021
	Submission WWO46 for completion Construction Road extension	30 days 127 days	Tue 12/4/22 Thu 12/5/22	Wed 11/5/22 Thu 15/9/22	
	Complete with Mis. Works for completion	15 days	Fri 16/9/22	Fri 30/9/22	
	Area Possession & Clearance after handover from other	45 days	Fri 1/4/22 Fri 1/4/22	Fri 30/9/22 Sun 15/5/22	
	Subletting / Fabrication / Delivery	21 days	Fri 1/4/22 Fri 1/4/22	Thu 21/4/22 Thu 14/4/22	
	Temporary Traffice Arrangement approval Utilities scanning and expose existing FS	14 days 14 days	Fri 15/4/22	Thu 28/4/22	
	Determine new FS alignment Submission to FSD	21 days 14 days	Fri 29/4/22 Fri 20/5/22	Thu 19/5/22 Thu 2/6/22	
	Modification of FS	60 days	Fri 3/6/22	Mon 1/8/22	
5	Backfill and reinstatment + report to FSD ection 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 Fri 30/9/22	
	Area Possession & Clearance	60 days	Sat 1/5/21	Tue 29/6/21	
	Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	210 days 60 days	Wed 17/11/21 Sat 1/5/21	Tue 14/6/22 Tue 29/6/21	
	Removal of aboveground services Utilities scanning and expose exising UU	60 days 30 days	Wed 30/6/21 Sun 29/8/21	Sat 28/8/21 Mon 27/9/21	
	Arrange of diversion existing UG utilities	90 days	Tue 28/9/21	Sun 26/12/21	
	Construct new cable trenches Realigment / install new UG utilities	173 days 60 days	Mon 27/12/21 Sat 18/6/22	Fri 17/6/22 Tue 16/8/22	
	backfill and reinstate & ready for cable laying by others ection 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	
	Temporary Traffice Arrangement approval	45 days	Fri 4/12/20	Sun 17/1/21	rrangement approval
	Subletting / Fabrication / Delivery BD approval & consent for sheetpile installation	100 days 90 days	Fri 25/12/20 Fri 4/12/20	Sat 3/4/21 Wed 3/3/21	Subletting / Fabrication / De
	Area Possession & Clearance	14 days	Thu 4/3/21	Wed 17/3/21	Area Possession & Clearance
	Removal of aboveground services Utilities scanning and expose exising UU	21 days 15 days	Thu 18/3/21 Thu 8/4/21	Wed 7/4/21 Thu 22/4/21	Removal of abovegro
	Arrange of diversion existing UG utilities Install pipe piles	45 days 61 days	Fri 23/4/21 Sun 23/5/21	Sun 6/6/21 Thu 22/7/21	
	BA14 for pipepile and BD consent for ELS	28 days	Fri 23/7/21	Thu 19/8/21	
	Excavation & install earthing Construct Pile Caps and Tie Beams	35 days 45 days	Fri 20/8/21 Fri 24/9/21	Thu 23/9/21 Sun 7/11/21	
	Backfill & Erect scaffold Construction of SRC Walls	21 days	Mon 8/11/21	Sun 28/11/21	
	Wall finish and remove scaffolding	75 days 24 days	Mon 29/11/21 Sat 12/2/22	Fri 11/2/22 Mon 7/3/22	
	Construct new cable trenches Realigment / install new UG utilities	60 days 117 days	Tue 8/3/22 Sat 7/5/22	Fri 6/5/22 Wed 31/8/22	
	Backfill and reinstate & ready for cable laying by others	30 days	Thu 1/9/22	Fri 30/9/22	
5	ection G (vi) - 275kV cable trenches and External Works at Area F18 Temporary Traffice Arrangement approval	397 days 45 days	Sat 1/5/21 Sat 1/5/21	Wed 1/6/22 Mon 14/6/21	
	Subletting / Fabrication / Delivery Area Possession & Clearance	60 days	Tue 15/6/21	Fri 13/8/21	
	Removal of aboveground services	15 days 30 days	Sat 1/5/21 Sun 16/5/21	Sat 15/5/21 Mon 14/6/21	
	Utilities scanning and expose exising UU Arrange 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	
	Construct new cable trenches	172 days	Tue 28/9/21	Fri 18/3/22	
	Realigment / install new UG utilities backfill and reinstate & ready for cable laying by others	45 days 30 days	Sat 19/3/22 Tue 3/5/22	Mon 2/5/22 Wed 1/6/22	
5	action G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A Area Possession & Clearance	301 days 30 days	Fri 4/12/20 Fri 4/12/20	Thu 30/9/21 Sat 2/1/21	
	Subletting / Fabrication / Delivery	60 days	Fri 25/12/20	Mon 22/2/21	Subletting / Fabrication / Delivery
	Temporary Traffice Arrangement approval ELS BD approval & consent	14 days 90 days	Fri 4/12/20 Fri 18/12/20	Thu 17/12/20 Wed 17/3/21	ELS BD approval & consent
	Demolition of existing carriageway	30 days	Fri 11/12/20	Sat 9/1/21	y
	Removal of aboveground services Utilities scanning and expose exising UU	21 days 21 days	Sun 10/1/21 Sun 31/1/21	Sat 30/1/21 Sat 20/2/21	Renoval of aboveground services
	Arrange of diversion existing UG utilities Install Sheet piles	30 days 45 days	Sun 21/2/21 Tue 23/3/21	Mon 22/3/21 Thu 6/5/21	Arrange of diversion existing UG utilities
	BA14 for sheetpile and BD consent for ELS	28 days	Fri 7/5/21	Thu 3/6/21	
	Excavation and construction of new Flood wall Realigment / install new UG utilities	65 days 30 days	Fri 4/6/21 Sun 8/8/21	Sat 7/8/21 Mon 6/9/21	
	backfill and construct new carriageway	18 days	Tue 7/9/21	Fri 24/9/21	
5	Mis. Work for completion ection G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	6 days 365 days	Sat 25/9/21 Fri 1/10/21	Thu 30/9/21 Fri 30/9/22	
	Area Possession & Clearance Subletting / Fabrication / Delivery	45 days 90 days	Fri 1/10/21 Fri 22/10/21	Sun 14/11/21 Wed 19/1/22	
	Temporary Traffice Arrangement approval	14 days	Fri 1/10/21	Thu 14/10/21	
	ELS BD approval & consent Demolition of existing carriageway	90 days 60 days	Fri 15/10/21 Fri 1/10/21	Wed 12/1/22 Mon 29/11/21	
	Removal of aboveground services	21 days	Tue 30/11/21	Mon 20/12/21	
	Utilities scanning and expose exising UU Arrange of diversion existing UG utilities	21 days 30 days	Tue 21/12/21 Tue 11/1/22	Mon 10/1/22 Wed 9/2/22	
	Install Sheetpiles BA14 for sheetpile and BD consent for ELS	55 days 28 days	Thu 10/2/22 Wed 6/4/22	Tue 5/4/22 Tue 3/5/22	
	Excavation and construction of new Flood wall	90 days	Wed 4/5/22	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	9 days	Thu 22/9/22	Fri 30/9/22	
	ection G (ix) - Bund wall modification works at South Seafront Road at Area F21 Area Possession & Clearance	209 days 45 days	Fri 4/12/20 Fri 4/12/20	Wed 30/6/21 Sun 17/1/21	learance
	Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval	90 days 14 days	Fri 25/12/20 Fri 4/12/20	Wed 24/3/21 Thu 17/12/20	Subletting / Fabrication / Delivery
	ELS BD approval & consent	0 days	Thu 17/12/20	Thu 17/12/20	
	Demolition of existing carriageway Removal of aboveground services	14 days 14 days	Fri 18/12/20 Fri 1/1/21	Thu 31/12/20 Thu 14/1/21	services
	Utilities scanning and expose exising UU Arrange of diversion existing UG utilities	21 days 30 days	Fri 15/1/21 Fri 5/2/21	Thu 4/2/21 Sat 6/3/21	Arrange of diversion existing UG utilities
	Excavation and expose existing bund wall & demolish	18 days	Sun 7/3/21	Wed 24/3/21	Arrange of diversion existing UG utilities
	Construction new bund wall for road junction Realigment / install new UG utilities	45 days 30 days	Thu 25/3/21 Sun 9/5/21	Sat 8/5/21 Mon 7/6/21	
	backfill and construct new carriageway	18 days	Tue 8/6/21	Fri 25/6/21	
56	Mis. Work for completion action G (x) - DAX Cable Diversion Works (from Part I to Part IV)	5 days 758 days	Sat 26/6/21 Fri 4/12/20	Wed 30/6/21 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	Subletting / Fabrication / Delivery
	Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	learance
	Identification of existing cable trench Part 1 Re-excavation works incl.construction of joint bay	7 days 246 days	Mon 18/1/21 Mon 25/1/21	Sun 24/1/21 Mon 27/9/21	ior of existing cable trench
	Part 2 Re-excavation works incl. joint bay	120 days	Mon 1/11/21	Mon 28/2/22	
	Part 3 Re-excavation works incl. joint bay Part 4 Re-excavation works incl. joint bay & new oil tank pits	242 days 92 days	Mon 1/11/21 Sat 1/10/22	Thu 30/6/22 Sat 31/12/22	
	Backfill & Reinstatement Part 1 Backfill & Reinstatement Part 2	61 days 61 days	Mon 1/11/21 Sun 1/5/22	Fri 31/12/21 Thu 30/6/22	
	Backfill & Reinstatement Part 3	61 days	Thu 1/9/22	Mon 31/10/22	
	ection H - All remaining works shall be completed for reporting completion to BD	478 days	<u>Mon 8/11/21</u>	Tue 28/2/23	
h	nd ready for OP inspection (PS1.4.4) Deferred works (MSB & HRSG) Listed in PS 1.4.4	281 days	Mon 8/11/21	Mon 15/8/22	
	Construction ofL12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation	38 days	Mon 8/11/21	Wed 15/12/21	
	Construction of walls ofL12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircas Provision in associated with hoisting well	92 days 21 days	Mon 16/5/22 Mon 6/6/22	Mon 15/8/22 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 Fac Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removab	30 days 92 days	Sat 16/4/22 Mon 16/5/22	Sun 15/5/22 Mon 15/8/22	
	Deferred works (DAX1 and DAX2) Listed in PS 1.4.4	334 days	Wed 1/2/23	Sun 31/12/23	
	Backfilling of whole DAXI compartment inside existing joint bay "STJI2" and the new oil tank pit A located as Re-excavation of whole DAX2 compartment inside existing joint bay "STJI2".	59 days 61 days	Wed 1/2/23 Tue 1/8/23	Fri 31/3/23 Sat 30/9/23	
	Backfilling of whole DAX2 compartment inside existing joint bay "STJI2" and the new oil tank pit B located at	61 days	Wed 1/11/23	Sun 31/12/23	
	Deferred works (External Work) Listed in PS 1.4.4 Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area	121 days 62 days	Thu 1/12/22 Thu 1/12/22	Fri 31/3/23 Tue 31/1/23	
	Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, Backfilling and road-reinstatement of 275kV cable trenches	90 days 90 days	Sun 1/1/23 Sun 1/1/23	Fri 31/3/23 Fri 31/3/23	
	All Remaining work ready for OP inspection	0 days	Tue 28/2/23	Tue 28/2/23	
	UTORY SUBMISSION, INSPECTION & APPROVAL SD Statutory Submission, Inspection and Approval WWO Part I to III Submission / Approval	865 days? 256 days	Fri 15/1/21 Fri 15/1/21	Mon 29/5/23 Mon 27/9/21	
h.	WSD : Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)	0 days	Fri 15/1/21	Fri 15/1/21	m WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)
	WSD: Vetting Form WWO 046 Part I and II Submission WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building	90 days 0 days	Sat 16/1/21 Fri 16/4/21	Thu 15/4/21 Fri 16/4/21	WSD: Ve
	WSD: Prepare for 1st Amendment for Plumbing Plan	60 days	Fri 16/4/21	Mon 14/6/21	
	WSD: Submit to WSD 1st Amendment for Plumbing Plan WSD: Vetting of Plumbing Plan by WSD	0 days 60 days	Mon 14/6/21 Tue 15/6/21	Mon 14/6/21 Fri 13/8/21	
	WSD: 1st Approval for Plumbing Plan by WSD WSD: Prepare and Submit for Final Amendment for Plumbing Plan	0 days 45 days	Fri 13/8/21 Sat 14/8/21	Fri 13/8/21 Mon 27/9/21	
	WSD: Vetting and Final Approval for Plumbing Plan by WSD	0 days	Mon 27/9/21	Mon 27/9/21	
N	SD Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission / / WSD: Form WWO 046 Part IV Submission (FS)	34 days? 0 days	Tue 9/8/22 Mon 4/10/21	Sun 11/9/22 Mon 4/10/21	
	WSD: WSD Recieved Form WWO046 Part IV and arrange for inspection (FS)	7 days	Tue 5/10/21	Mon 11/10/21	
	WSD: WSD Inspection (FS) WSD: WWO 046 Part V Endorsement by WSD (FS)	7 days 12 days	Sat 30/10/21 Sat 6/11/21	Fri 5/11/21 Wed 17/11/21	
	WSD: WSD Processing Water Supply Connection Certificate (FS)	7 days	Thu 18/11/21	Wed 24/11/21	
N	WSD: Issue by WSD Water Supply Connection Certificate (FS) SD Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission /	0 days? 60 days	Wed 24/11/21 Mon 18/10/21	Wed 24/11/21 Fri 17/12/21	
	WSD: Form WWO 046 Part IV Submission (Fresh/Flush) WSD: WSD Acknowledge Form WWO 046	0 days 6 days	Mon 18/10/21 Tue 19/10/21	Mon 18/10/21 Sun 24/10/21	
	WSD: WSD Acknowledge Form WWO 046 WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	12 days	Mon 25/10/21	Fri 5/11/21	
		6 days		Thu 11/11/21	
	WSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush) WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	12 days	Sat 6/11/21 Fri 12/11/21	Tue 23/11/21	

Contract No. 19/83002 Lamma Power Station Extension Civil and Building Works for Unit L12 MASTER PROGRAMME

			Feb 2021		Mar 2021		
12 days	Wed 24/11/21	Sun 5/12/21	1 60 2021		Ividi 2021		Apr 2021
		Sat 11/12/21					
0 days	Tue 1/11/22	Tue 1/11/22					
60 days	Thu 30/6/22	Mon 29/8/22					
0 days	Thu 30/6/22	Thu 30/6/22					
60 days	Fri 1/7/22	Mon 29/8/22					
0 davs	Mon 29/8/22	Mon 29/8/22					
150 days	Sat 16/7/22	Mon 12/12/22					
			1				
1 day	Sun 3/9/23	Sun 3/9/23	1				
120 days	Wed 14/6/23	Wed 11/10/23					
45 days	Wed 14/6/23	Fri 28/7/23	1				
45 days	Sat 29/7/23	Mon 11/9/23	1				
30 days	Tue 12/9/23	Wed 11/10/23	1				
0 days	Wed 11/10/23	Wed 11/10/23	1				
			1				
			1				
0 days	Sun 17/12/23 Sun 31/12/23	Sun 31/12/23 Sun 31/12/23	1				
	 O days O days O days O days O days Go days 	0 days Sat 11/1221 0 days Sat 11/1221 0 days Sat 5/22 1 2 days Sat 6/22 1 2 days Sat 6/22 1 2 days Sat 6/22 1 4 days Tut 22/22 1 4 days Tut 22/22 1 4 days Tut 22/22 1 4 days Tut 80/22 0 days Tut 30/62 1 0 days Tut 80/22 0 days Tut 30/62 0 days Tut 30/62 0 days Tut 12/72 0 days Tut 30/622 0 days Wed 28/92 1 days Wed 51/022 0 days Tut 30/622 0 days Sat 16/722 0 days Sat 16/722	0 days Sat 11/1221 Sat 11/1221 0 days Sat 11/1221 Sat 11/1221 0 days Sat 5222 Mon 21/322 12 days Sat 5222 Won 21/322 12 days Sat 5222 Won 21/322 14 days Tut 2222 Won 21/322 14 days Tut 2222 Mon 21/322 0 days Tut 2222 Mon 21/322 10 days Tut 80/92 Wol 97/22 12 days Sun 16/1022 Sun 97/022 12 days Sun 16/1022 Tut 17/122 12 days Mon 28/822 Tut 97/1022 14 days Wed 56/022 Tut 81/022 14 days Wed 56/022 Tut 81/022 14 days Wed 19/022	0 darge Sat 11/1221 Sat 11/1221 0 darge Sat 11/1221 Fit 17/1221 0 darge Sat 52/22 Mon 21/022 12 darge Sat 52/22 Woo 21/022 12 darge Sat 52/22 Woo 21/022 14 darge Sat 52/22 Woo 21/022 14 darge Tue 22/22 Woo 12/022 14 darge Tue 22/22 Mon 21/022 0 darge Tue 22/22 Mon 21/022 0 darge Tue 22/22 Mon 21/022 0 darge Tue 22/22 Mon 21/022 14 darge Tue 80/22 Mon 21/022 14 darge Tue 80/22 Mon 21/022 14 darge Tue 80/22 Mon 21/022 15 darge Tue 12/722 Sun 9/10/22 12 darge Tue 12/722 Sun 9/10/22 12 darge Tue 12/7022 Tue 11/122 0 darge Tue 12/7022 Tue 11/122 14 darge Wed 28/9/22 Tue 11/122 14 darge Wed 19/10/22 Tue 11/11/22 14 darge<	0 days Sat 11/1221 Sat 11/1221 0 days Sat 21/1221 Fri 17/1221 0 days Sat 52/22 Mon 21/322 1 2 days Sat 52/22 Won 21/322 1 2 days Sat 52/22 Won 21/322 1 4 days Tue 22/22 Won 21/322 1 4 days Tue 22/22 Mon 21/322 0 days Tue 22/22 Won 21/322 0 days Tue 22/22 Won 21/322 0 days Tue 22/22 Won 21/322 0 days Tue 22/22 Wed 8/7/22 0 days Tue 21/322 Won 21/322 1 2 days Tue 17/22 Sun 9/10/22 1 2 days Tue 17/1022 Tue 11/122 0 days Tue 12/7022 Tue 11/122 1 4 days Wed 28/9/22 Tue 11/1022 1 4 days Wed 28/9/22 Tue 11/1022 1 4 days Wed 19/1022 Tue 11/1022 1 4 days Wed 19/1022	0 days Sat 1112221 Sat 111221 0 days Sat 5222 Mon 21/022 1 2 days Sat 5222 Won 21/022 1 2 days Sat 5222 Won 21/022 1 4 days Tue 222/22 Mon 73/02 1 4 days Tue 222/22 Mon 73/02 1 4 days Tue 222/22 Mon 73/02 0 days Mon 21/022 Mon 73/02 0 days Tue 222/22 Mon 73/02 1 6 days Tue 80/02 Mon 21/022 0 days Tue 222/22 Mon 21/022 1 6 days Tue 80/02 Mon 21/022 1 7 days Tue 12/02 Wei 87/02 9 days Tue 12/702 Wei 87/02 1 6 days Tue 12/702 Tue 11/102 1 6 days Mon 28/022 Tue 11/102 1 6 days Mon 28/022 Tue 11/102 1 6 days Wei 28/022 Tue 11/102 1 6 days Wei 28/022 Tue 11/102 1 6 days Mon 28/022 Tue 11/102 1 6 days Sat 16/7022 Tue 11/1022 1 6 days Sat 16/7022	0 days Sut 11/12/21 Fit 17/12/21 Fit 17/12/21 Fit 17/12/21 Fit 17/12/21 0 days Fit 17/12/21 Fit 17/12/21 Fit 17/12/21 12 days Sat 50/22 More 14/02/21 12 days Sat 50/22 More 14/02/21 14 days Tue 30/22 More 14/02/21 14 days Tue 30/02/21 Wore 6/7/22 14 days Sun 16/10/22 Tue 17/10/22 15 days Sun 16/10/22 Tue 17/10/22 16 days Mon 16/10/22 Tue 17/10/22 <

Task

Summary 🔍 🔍 🛡

Split Milestone ♦

ID	0	Task Name			Durat	on Start	Finish	February 2 31 03	021 06 09 1	2 15 18 21 24	March 2021 27 02 05	08 11 14 17 20	23
1	-	19-83014 - Civil Works for	No. 5 C.W. Intake and Ca	able Bridge at Lamma	Power Sta 557	days Mon 10/05	/20 Thu 09/08/22						
2		Contract Details			502	days Mon 10/05	/20 Thu 07/07/22	_					
15		Submission				-	/20 Wed 11/10/21						
36		Procurement					/20 Thu 05/13/21						
45		No.5 C.W. Intake				-	/20 Thu 09/08/22						
		Erect of Hoarding and				-	/20 Sat 10/17/20						
47	_	Install Monitoing Inst				-	/20 Fri 11/06/20						
54		ELS works for No. C.V				-	/20 Sat 12/11/21						
55	_	Installation of pipe	•				/20 Mon 04/19/21						
56	_		sion of existing drainage	system (from MH807 t			/20 Tue 01/05/21						
57	_	PP1-PP30 (30 no	,				/20 Thu 01/14/21						
58 59	-	PP31-PP85 (55 n				-	/21 Wed 03/03/21 /21 Fri 04/09/21						
60		PP86-PP127 (42 PP128-PP183 (56	,				/21 Fri 02/19/21						
61	_	PP128-PP183 (30 PP184-PP214 (31	,				21 PH 02/19/21		_				
62			A14, as-built plan and rec	cord			/21 Mon 04/12/21						
63		BD Excavation Co		coru		-	/21 Mon 04/19/21						
64		Excavate upto +4.5					/21 Mon 04/26/21						
65	_	-	row of waling (WT1) and s	strut (CS1)		-	/21 Tue 05/11/21						
66	_	Installation of 1st r	3, ,	31101 (CS1)			/21 Thu 06/17/21						
67	_	RW01 (01-22)	ow of the back			-	/21 Thu 05/06/21						
68	-	RW01 (01 22)				-	/21 Wed 05/26/21						
69	-	RW01 (25 70) RW01F (01-28)					/21 Mon 06/07/21						
70	-	RW01F (29-77)					/21 Wed 05/26/21						
71	-	RW01F (78-98)					/21 Wed 05/20/21						
72	-	Pull Out Test for	Tie Back				/21 Thu 06/17/21						
73		Excavate upto +2.7				-	21 Thu 06/24/21						
74			row of waling (WT2) and	d strut (CS2)		-	i/21 Fri 07/09/21						
75		Installation of 2nd	-	a ott dt (002)			/21 Fri 08/13/21						
82		Excavate uoto +1.0				-	/21 Fri 08/20/21						
83			row of waling (WT3) and	strut (CS3)			/21 Fri 09/03/21						
84			row of Tie Back (TBC)			-	/21 Mon 10/11/21						
91		Excavate upto -7.50				-	/21 Sat 12/11/21						
92		Temporary removal o	of sea wall			-	/21 Fri 01/14/22						
97			C.W. Intake Chamber			-	/21 Tue 08/09/22						
120		Reinstatement of sea	wall			-	/22 Thu 07/28/22						
124		Backfilling Works and	d Strut removal		56	days Thu 02/24	/22 Thu 05/05/22						
131		Steel Gantry Frame at	t No. 5 C.W. Intake Cham	nber	36	days Fri 07/29	/22 Thu 09/08/22						
134		E&M Works			36	days Fri 07/29	/22 Thu 09/08/22						
138		Cable Bridge			444	days Wed 11/11	/20 Mon 05/16/22	-					
139		Erect of Hoarding and	Door Gate		12	days Wed 11/1	/20 Tue 11/24/20						
140		Install Monitoing Inst				-	/20 Thu 11/26/20						
147		Pile Cap Construction	1				/20 Thu 07/22/21						
148		LPS Pile Cap (PC5)				-	/20 Tue 03/09/21						
149			.L. by open cut (From +4.	.50mPD to +1.95mPD)		,	/20 Wed 01/13/21						
150		· · · · ·	ad treatment (14 nos)			-	/21 Wed 01/27/21						
151		Construction of	•			-	/21 Tue 03/02/21						
152		Backfilling to pile				-	/21 Tue 03/09/21						
153		LMX Pile Cap (PC6)				-	/20 Thu 07/22/21						
154			275kV cable trench by har	nd dig method			/20 Wed 01/13/21						
155		Install pipe pile (,				/21 Mon 02/01/21						
156			A14, as-built plan and rec	cord			/21 Wed 02/03/21						
157		BD Excavation Co				-	/21 Tue 03/09/21					03/09	
158			nm below strut level				/21 Tue 03/16/21					<u> </u>	
159	_	Install waling sys					/21 Tue 03/23/21					×	
160	_	Excavate to F.E.L.					/21 Sat 04/10/21						Ċ
161	_	-	for Dia 2180mm Bored P	Pile (8nos)			/21 Wed 05/12/21						
162		Construction of I	•			-	/21 Thu 07/15/21						
163	_	Backfilling to pile	1				/21 Thu 07/22/21						
164		Exisitng Seawall modi				-	6/21 Sat 08/14/21						
165	_	Construction of Cable	•				/21 Mon 05/16/22				•		
166		Off-site precast be	am construction (PCB1-I	PCB12)	150	days Mon 03/01	/21 Tue 08/31/21				Ý		
			Taal		C			4:1 +					
		014 - No. 5 Intake and Cable Br	Task		Summary	-	External N		•	Inactive Summary	V	Manual Summary Rollup	
	6 Dec 2		Split		Project Summary		Inactive Tage	ask		Manual Task	Ê	Manual Summary	
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ID	Task Name	Duration	Start	Finish	Febru	uary 2021						Mai	rch 2021							A	April 20	21						
(0				31	03 06	09	12	15 18	3 21	24	27	02 0	5 08	11	14	17 20) 23	26	29	01	04	07	10 13	16	19	22	25 28
181	Application of Marine Permit	78 days	Thu 05/13/21	Mon 08/16/21																								
182	Erect precast beam (PCB1-PCB12)	40 days	Mon 08/16/21	Sat 10/02/21																								
183	Construction of Diaphragm Beams (DB7-DB11)	36 days	Mon 10/04/21	Mon 11/15/21																								
184	Stage 2 PT Stressing	6 days	Tue 11/23/21	Mon 11/29/21																								
185	Construction of 200mm thk R.C. Middle Slab	36 days	Tue 11/30/21	Thu 01/13/22																								
186	Installation of Precast Panel (for planter and kerb)	52 days	Fri 01/14/22	Fri 03/18/22																								
187	Casting of 250mm thk. R.C. Top Slab	18 days	Sat 02/26/22	Fri 03/18/22																								
188	Road paving work	24 days	Wed 04/13/22	Mon 05/16/22																								
189	Installation of steel parapet	24 days	Wed 04/13/22	Mon 05/16/22																								
190	Construction of Abutment at LPS	114 days	Tue 11/30/21	Fri 04/22/22																								
197	Construction of Abutment at LMX	124 days	Tue 11/30/21	Thu 05/05/22																								
204	Stormwater Drainage	40 days	Sat 03/19/22	Wed 05/11/22																								
206	E&M works	40 days	Sat 03/19/22	Wed 05/11/22																								

Project: 19-83014 - No. 5 Intake and Cable Br	Task		Summary	—	External Milestone	\$	Inactive Summary	$\bigtriangledown \qquad \qquad \bigtriangledown$	Manual Summary Rollu	ıp
Date: 16 Dec 2020	Split		Project Summary	$\overline{\nabla}$	Inactive Task		Manual Task	C 3	Manual Summary	-
Rev. 1	Milestone	♦	External Tasks		Inactive Milestone	\diamond	Duration-only		Start-only	E
						Page 2				

Finish-only	3
 Progress	
Deadline	Ŷ

Monthly Waste Flow Table for January 2021

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2018, 2019, 2020 & 2021

MM.YYYY		Ac	tual Quanti	ties of Inert	C&D Materia	Is Generated	Monthly		Actual Q	uantities of N	Non-inert C&I	D Materials	Generated	Monthly
	Exc	avated Mate	erials		Non	-excavated Ma	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Contract	Reused in other Projects	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.66	0.00	0.00	0.00	0.60	0.00
Mar 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.05	0.00	0.00	0.00	0.00	0.00
Apr 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00	19.09
May 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	59.75
Jun 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.64
Jul 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66
Aug 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.31
Oct 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.109	0.00	0.00	4.76
Nov 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.87
Dec 2019	0.00	0.00	0.00	0.00	0.00	10226.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.19
Jan 2020	0.00	0.00	0.00	0.00	0.00	7981.09	0.00	0.00	0.00	0.00	0.157	0.00	0.00	26.89
Feb 2020	0.00	0.00	0.00	0.00	0.00	8782.98	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Mar 2020	0.00	0.00	0.00	0.00	0.00	20252.12	0.00	0.00	0.00	0.00	0.000	0.00	0.00	78.96
Apr 2020	0.00	0.00	0.00	0.00	0.00	12976.86 20203.01	0.00	0.00	8.30 0.00	0.00	0.000	0.00	0.00	68.75 0.00
May 2020	0.00										0.000			
Jun 2020 Jul 2020	0.00	0.00	0.00	0.00	0.00	28030.33 12481.37	0.00	0.00	0.00	0.00	0.000	0.00	0.00	58.49 33.88
	0.00	0.00	0.00	0.00	0.00	12481.37 11179.56	0.00	0.00	0.00	0.00	0.000	0.00	0.00	33.88
Aug 2020 Sep 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.53	0.00	0.000	0.00	0.60	73.73 64.93
Oct 2020	0.00	0.00	0.00	0.00	0.00	10762.20	0.00	0.00	7.53	0.00	0.286	0.00	0.00	64.93 83.34
Nov 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.12	0.00	0.297	0.00	0.00	83.34 61.21
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.20	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	59.96
Jan 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	51.37
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	832.34

Total Inert C&D Waste Materials		Non-inert C&D Materials	i
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
146035.98 tonnes	75.68 tonnes	832.34 tonnes	2000 Liters

Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 146035.98 tonnes of inert C&D material 142875.75 tonnes were reused in this and other contracts, and the remaining were generated from the Project, of which 3160.23 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.

(b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. 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 for recycling during the reporting period. 0 kg of plastics were sent to recyclers

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

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

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material. (5) Broken concrete for recycling into aggregates.

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

Appendix K

Monthly Waste Flow Table for January 2021
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	Quantities	of Inert C&D	Materials G	Generated N	lonthly		Actual Q	uantities of	Non-inert C&	&D Materials	s Generated	Monthly
	Exc	avated Mate	erials		Non-e	xcavated M	aterials							-
	Disposed in Public Fill	Disposed in Sorting Facilities		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
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	5000	152.51

Total Inert C&D Waste Materials		Non-inert C&D Materials	
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
0.00 tonnes	0.00 tonnes	152.51 tonnes	5000 Liters

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

 were generated from the Project, of which
 0
 0
 tonnes were reused in this and other contracts, and the remaining

 0.00
 tonnes were disposed in Public Fill and Sorting Facilities.
 tonnes were reused in this and other contracts, and the remaining
 0.00 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: (1) metal, paper & plastic were collected by recycler

(2) The performance target of waste recycling are specified in the Contractt. (3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site. (4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material. (5) Broken concrete for recycling into aggregates.

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

Monthly Waste Flow Table for January 2021

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	O Materials	Generated	Monthly
	Exc	avated Mate	rials		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)
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	0.00	0.00	0.00	0.00	0.00	0.00
														L
														l
Total	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 Inert C&D Waste Materials	Non-inert C&D Materials				
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste		
0.00 tonnes	0.00 tonnes	0.00 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
 0.00
 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.

Monthly Waste Flow Table for January 2021

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	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Materials Generated Monthly							
	Excavated Materials				Non-excavated Materials									
	Disposed in Public Fill	Disposed in Sorting Facilities	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	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 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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	l													
	l l													
Total	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 Iner	t C&D Was	te Materials	Non-inert C&D Materials				
· otal moi	Generated		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
 0.00
 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.