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



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

April 2021

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



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

Report Title	Lamma Power Station Extension – Unit L11 & L12			
	Monthly EM&A Report			
	(April 2021)			
Date	14 May 2021			
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EXECUTIVE SUMMARY

This is the 132nd monthly Environmental Monitoring and Audit (EM&A) report for the Project "Construction of Lamma Power Station Extension" prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air quality and noise for the said project in April 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, site formation works, pipe jacking and construction of receiving pit	
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 pile cap and ground beam and construction of No. 5 Chimney for Main Station Building, construction of substructure for ACB, pipe piling and sheet piling for No. 5 C.W. Intake and pile cap construction 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

EPD officials from Regional Office (South) visited Lamma Power Station on 14/4/2021. There was no adverse comment from EPD regarding the construction site.

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

Environmental Licensing and Permitting

Description	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-RS0966-20	01/01/21	30/06/21	Contractor	21/12/20
Construction Noise Permit	GW-RS0039-21	01/02/21	31/07/21	Contractor	29/01/21
Construction Noise Permit	GW-RS0072-21	08/02/21	07/08/21	Contractor	05/02/21
WPCO Discharge Licence	WT00034006-2019	08/08/19	31/08/24	Contractor	22/08/19
WPCO Discharge Licence	WT00037613-2021	15/04/21	30/04/26	Contractor	15/04/21
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Contractor	22/02/16
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	Contractor	17/03/05
Waste Disposal Billing Account	Account No.: 7031135	21/06/18	-	Contractor	21/06/18
Waste Disposal Billing Account	Account No.: 7027672	24/04/17	-	Contractor	24/04/17
Waste Disposal Billing Account	Account No.: 7038672	27/10/20	-	Contractor	27/10/20
Waste Disposal Billing Account	Account No.: 7039272	08/01/21	-	Contractor	08/01/21

Implementation Status of Environmental Mitigation Measures

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

Environmental Complaints

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

Future Key Issues

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

Unit L11 Civil and Building Works

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

Unit L11 Mechanical Erection

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

Unit L11 Electrical, Instrumentation & Control Erection

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

Unit L12 Civil and Building Works

- to continue 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;
- to provide silt curtain as preventive measures at Northern Cable Bridge area.

Concluding Remarks

The environmental performance of the project was generally satisfactory.

1. INTRODUCTION

1.1 Background

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

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

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

This report summarizes the environmental monitoring and audit work for the Project for the month of April 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, site formation works, pipe jacking and construction of receiving pit. 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 pile cap and ground beam

and construction of No.5 Chimney for Main Station Building, construction of substructure for ACB, pipe piling and sheeting piling for No. 5 C.W. Intake and pile cap construction 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	1 Civil and Building	Works
1.	275kV Station Building Extension Works	 Air All regulated machine attached with valid exception/approval NRMM labels. Wastewater Wastewater should be treated in desilting pit and tanks for reuse on water spraying.
		Waste Management
		 Scrape metal would be recycled. Timber would be reused as much as possible. Chemical waste should be collected by licensed collector
2.	Main Station Building external works, site formation works, pipe jacking and construction of receiving pit	 Air All regulated machine attached with valid exception/approval NRMM labels. Water truck and water sprinkler system was used. Excavated slope and soil stock covered with cement or tarpaulin. Backfilled surface was compacted. Wheel washing facility was provided. Grout mixer and cements bags with 3 sides and top covering.
		 Wastewater Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. The frequency would be from every other day to weekly basis depends on the volume of sediment accumulated in order to maintain sufficient volume for wastewater treatment.

Item	Construction Activities	Environmental Mitigation Measures
		 Waste Management Excavated soil was temporary stored for backfilling. Scrape metal would be recycled. Timber would be reused as much as possible.
Unit L1	1 Mechanical Erection	on
3.	Condenser installation HRSG installation	Air – Dust suppression measures implemented according to the EMP.
	Turbine block installation	 Noise General noise mitigation measures employed at all work sites throughout the construction phase.
		Waste Management 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 pile cap and ground beam Construction of No.5 Chimney <u>ACB</u> Construction of substructure	 Air All regulated machine attached with valid exception/approval NRMM labels. Water truck, misting cannon and water sprinkler system would be used. Water spraying for concrete breaking works. Soil stock would be covered with cement or tarpaulin or keep the entire surface wet. Wheel washing facility would be relocated. Used tarpaulin screening cover for drill rig.

Item	Construction Activities	Environmental Mitigation Measures		
	No.5 C.W. Intake Pipe piling and sheet piling	 Noise Works conducted during restricted hours should comply with the valid CNP. Noise emission label was provided for air compressor. 		
		 Wastewater Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. The frequency would be from every other day to weekly basis depends on the volume of sediment accumulated in order to maintain sufficient volume for wastewater treatment. Silt curtain was provided as preventive measures at Northern Cable Bridge area 		
		 Waste Management Excavated soil was temporary stored for backfilling and reuse in other projects. Scrape metal would be recycled. Chemical waste should be collected by licensed collector. 		
6.	Cable Bridge: Pile Cap Construction	 Air All regulated machine attached with valid exception/approval NRMM labels. Soil stockpile covered with tarpaulin. Wheel washing facilities is working in progress. Water spraying on haul road and during concrete breaking. 		
		 Waste Management Excavated soil would be stored for backfilling. Noise Works conducted during restricted hours should comply with the valid CNP. Wastewater Wastewater Wastewater would be treated in desilting pits and tanks for reuse 		

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.

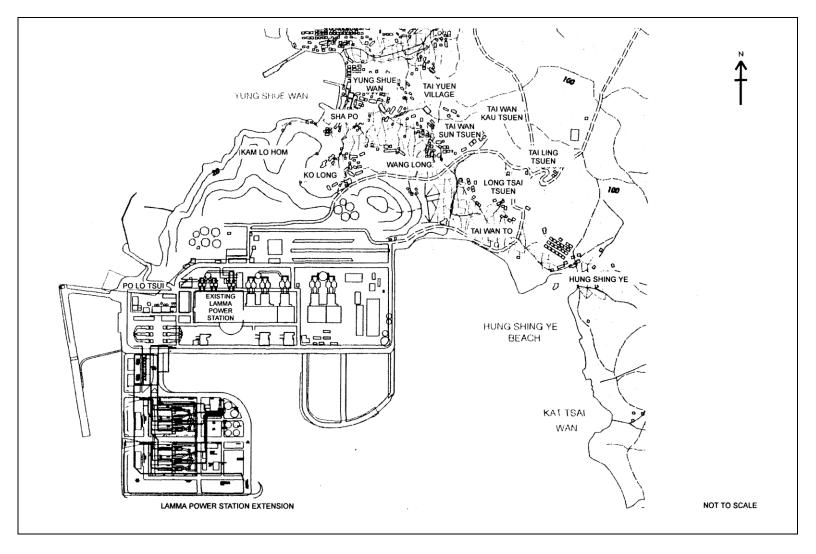


Figure 1.1 Layout of Work Site

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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 Quality 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
1-hour sampling: Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific

2.4 Monitoring Parameters, Frequency and Duration

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

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

 Table 2.3
 Air Quality Monitoring Parameter, Duration and Frequency

2.5 Monitoring Procedures and Calibration Details

MINIVOL (24- hour TSP Monitoring):

Preparation of Filter Papers

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

Field Monitoring

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

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

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

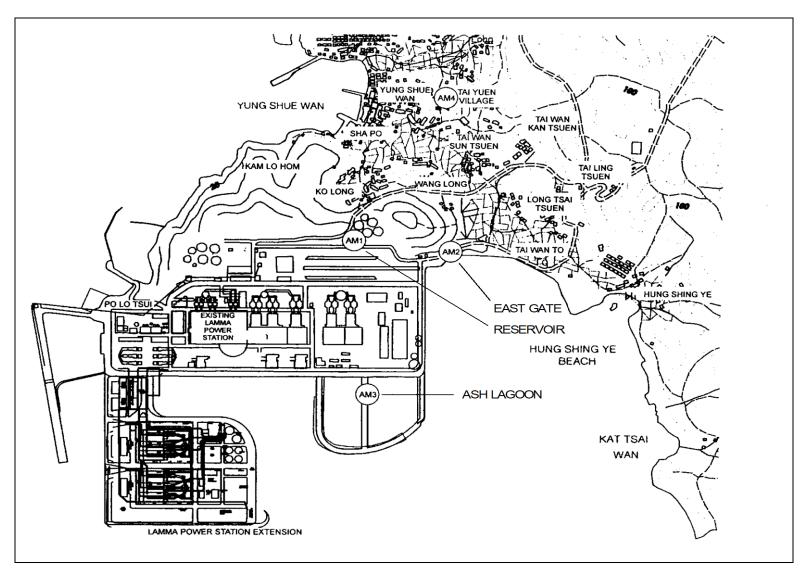


Figure 2.1 Location of Air Quality Monitoring Stations

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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

LocationTime PeriodFrequencyParameter	
---------------------------------------	--

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

3.5 Monitoring Procedures and Calibration Details

Monitoring Procedures

Continuous Noise Monitoring for Lamma Extension Construction

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

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

Equipment Calibration

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

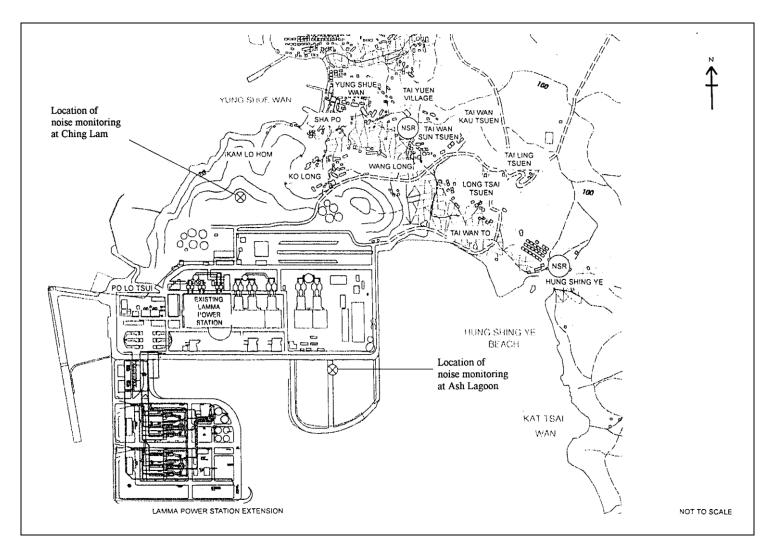


Figure 3.1 Location of Noise Monitoring Stations

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		. of ances In	Event/Action Plan Implementation Status
			Action Level	Limit Level	and Results
Air					
1	Ambient TSP (24-hour)	01/04/2021- 30/04/2021	0	0	
2	Ambient TSP (1-hour)	01/04/2021- 30/04/2021	0	0	
Noise	·	•			·
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/04/2021- 30/04/2021	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 April 2021 are shown in Table 4.2.

Table 4.2	Estimated Amounts of Waste in April 2021
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	Non-inert C&D Materials		
Total Inert C&D Waste Materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste

0 Tonnes	4.68 Tonnes	70.46 Tonnes	3,000 Litres
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The monthly waste flow tables prepared by the contractors are attached in Appendix K

4.4 Site Environmental Audit

EPD officials from Regional Office (South) visited Lamma Power Station on 14/4/2021. There was no adverse comment from EPD regarding the construction site.

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

4.5 Status of Environmental Licensing and Permitting

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

Table 4.3	Summary of Environmental Licensing and Permit Status
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Description	Permit No.	Valid	Period	Highlights	Status	
-		From	То			
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid	
Construction Noise Permit	GW-RS0966-20	01/01/21	30/06/21	Power Block Facilities works for Unit L11. Operation of PME during restricted hours	Valid	
Construction Noise Permit	GW-RS0039-21	01/02/21	31/07/21	Construction site for Unit L12. Operation of PME during restricted hours	Valid	
Construction Noise Permit	GW-RS0072-21	08/02/21	07/08/21	Civil and Building Works for Unit L12. Operation of PME during restricted hours	Valid	
WPCO Discharge Licence#	WT00034006- 2019	08/08/19	31/08/24	Civil and Building Works for Unit L11	Valid	
WPCO Discharge Licence##	WT00037613- 2021	15/04/21	30/04/26	Civil and Building Works for Unit L12 (No.5 C.W. Intake and Cable Bridge)	Valid	
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Civil and Building Works	Valid	

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

Notes: # - Water quality monitoring was carried out in February 2021 and the results of which had been reported separately by the contractor.

- Water quality monitoring was scheduled in June 2021.

4.6 Implementation Status of Environmental Mitigation Measures

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

4.7 Implementation Status of Event/Action Plans

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

4.8 Implementation Status of Environmental Complaint Handling Procedures

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

Table 4.4	Environmental	Complaints]	Received in April 2021
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Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

 Table 4.5
 Outstanding Environmental Complaints Carried Over

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

5. FUTURE KEY ISSUES

5.1 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

Unit L11 Civil and Building Works

Noise Impact

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

Air Impact

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

Water Impact

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

Unit L11 Mechanical Erection

Noise Impact

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

Air Impact

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

Unit L11 Electrical, Instrumentation & Control Erection

Noise Impact

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

Air Impact

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

Unit L12 Civil and Building Works

Noise Impact

0421allemna.doc

• 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.
- To provide silt curtain as preventive measures at Northern Cable Bridge area.

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

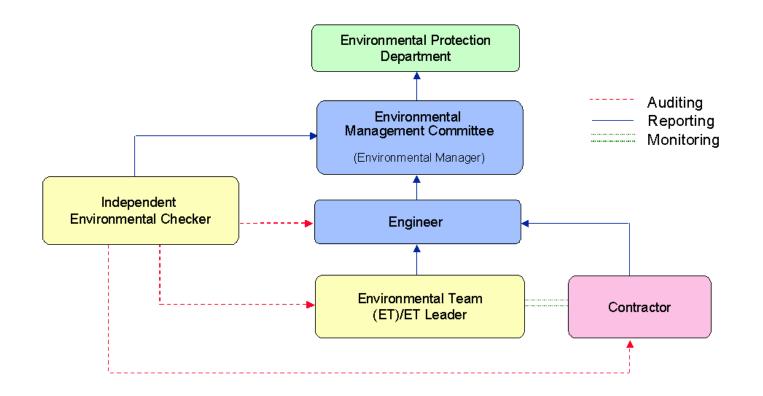


Figure A.1 Organisation of EM&A Programme at Construction Phase

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)
---	--------------------

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

Appendix C Environmental Monitoring Schedule

1hr TSP Monitoring
6/April/2021 1500hr to 1800hr
12/April/2021 1500hr to 1800hr
18/April/2021 1500hr to 1800hr
24/April/2021 1500hr to 1800hr
30/April/2021 1500hr to 1800hr
6/May/2021 1500hr to 1800hr
12/May/2021 1500hr to 1800hr
18/May/2021 1500hr to 1800hr
24/May/2021 1500hr to 1800hr
30/May/2021 1500hr to 1800hr
5/June/2021 1500hr to 1800hr
11/June/2021 1500hr to 1800hr
17/June/2021 1500hr to 1800hr
23/June/2021 1500hr to 1800hr
29/June/2021 1500hr to 1800hr
4/July/2021 1500hr to 1800hr
10/July/2021 1500hr to 1800hr
16/July/2021 1500hr to 1800hr
22/July/2021 1500hr to 1800hr
28/July/2021 1500hr to 1800hr

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

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: April 2021

24 hour TSP Measurement:-

	TSP concentration ($\mu g/m^3$)				Weather Information (From Hong Kong Observatory)		
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir. (°)	Mean R.H. (%)
6/4/2021	57	50	48	51	18.4	80	77
12/4/2021	26	22	20	14	11.8	50	80
18/4/2021	124	120	107	40	41.3	80	67
24/4/2021	31	33	25	36	21.1	80	82
30/4/2021	30	36	18	29	9.3	10	77

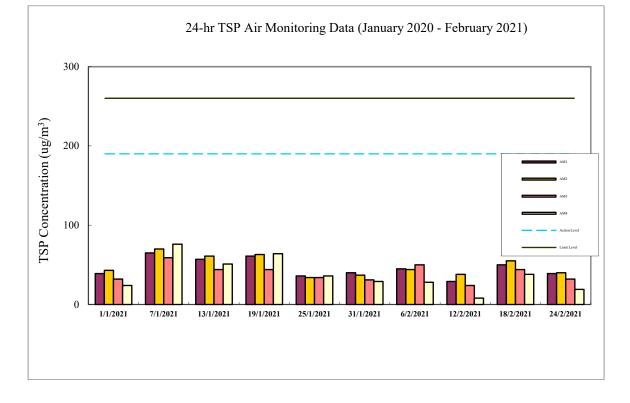
1 hour TSP Measurement:-

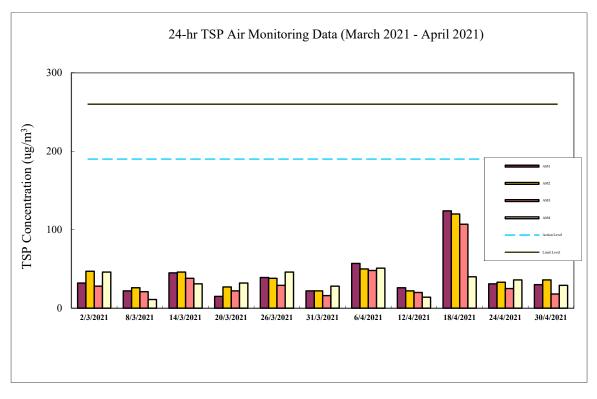
		TSP concentration ($\mu g/m^3$)			
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	
	15:00 - 15:59	49	50	47	
6/4/2021	16:00 - 16:59	57	52	45	
	17:00 - 17:59	56	50	45	
	15:00 - 15:59	24	23	17	
12/4/2021	16:00 - 16:59	23	25	19	
	17:00 - 17:59	26	24	18	
	15:00 - 15:59	170	168	149	
18/4/2021	16:00 - 16:59	186	180	144	
	17:00 - 17:59	194	179	144	
	15:00 - 15:59	43	34	24	
24/4/2021	16:00 - 16:59	32	33	25	
	17:00 - 17:59	30	33	25	
	15:00 - 15:59	40	46	18	
30/4/2021	16:00 - 16:59	33	36	18	
	17:00 - 17:59	28	27	18	

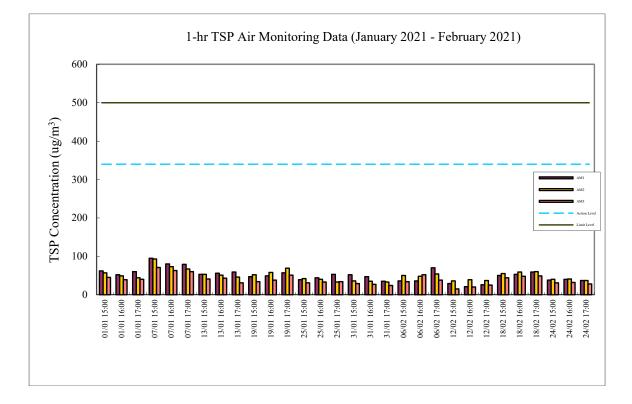
	1-hr TSP	24-hr TSP
	$(\mu g/m^3)$	$(\mu g/m^3)$
Action Level	340	190
Limit Level	500	260
Calibration:	Calibration details are shown in appe	endix F.

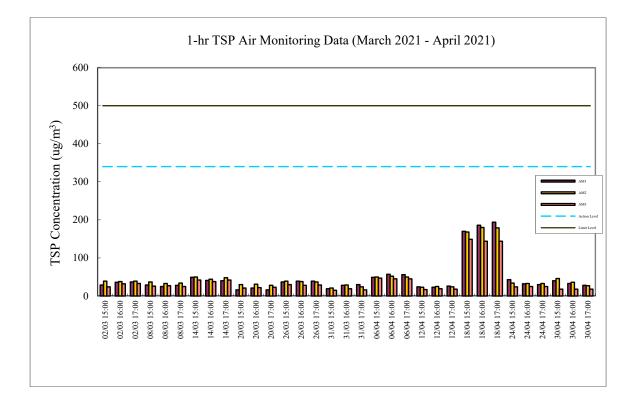
Equipment used:

Location	1-hr TSP	24-hr TSP
Reservoir, East Gate and Ash Lagoon	TEOM	TEOM
Tai Yuen Village	-	MINIVOL Portable Sampler









Appendix EContinuous Noise Monitoring Results for April 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					

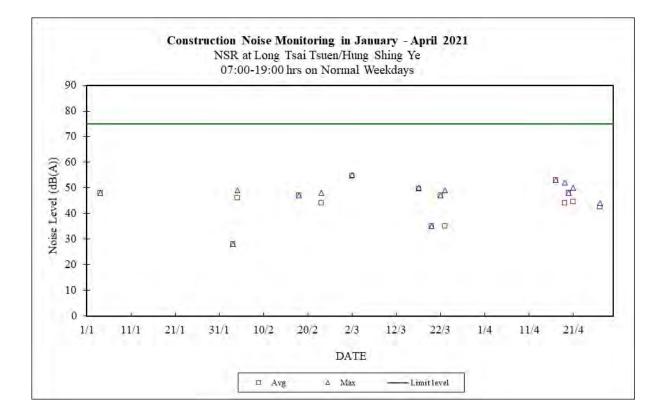
		Calcula	ated		Calcula	ated	
		Noise			Noise		
		Level a	at		Level a		
		NSR at		Limit	NSR at	the	Limit
Date	Time	Tsai	Holig	Noise	school		Noise
Date	1 I IIIC	Tsuen/H	Juna	Level	within	Tai	Level
		Shing Y	-	(dB(A))	Wan Sar	l	(dB(A))
		(dB(A))			Tsuen		
		(ab(m))			(dB(A))	
		Max	Avg		Max	Avg	
01/04/2021	07:00-19:00			75	45	42	70
01/04/2021	19:00-23:00			60	36	36	60
01/04/2021	23:00-07:00			45	40	34	45
02/04/2021	07:00-23:00	48	35	60	43	36	60
02/04/2021	23:00-07:00	40	40	45	35	30	45
03/04/2021	07:00-23:00	50	38	60	54	36	60
03/04/2021	23:00-07:00	36	36	45	39	30	45
04/04/2021	07:00-23:00	52	44	60	52	35	60
04/04/2021	23:00-07:00	30	30	45	37	29	45
05/04/2021	07:00-23:00	45	42	60	53	34	60
05/04/2021	23:00-07:00	40	32	45	42	31	45
06/04/2021	07:00-23:00	50	38	60	46	34	60
06/04/2021	23:00-07:00	44	40	45	42	35	45
07/04/2021	07:00-19:00			75	40	36	70
07/04/2021	19:00-23:00	47	47	60	48	36	60
07/04/2021	23:00-07:00	37	32	45	36	25	45
08/04/2021	07:00-19:00			75	31	31	70
08/04/2021	19:00-23:00			60	26	26	60
08/04/2021	23:00-07:00	37	34	45	41	31	45
09/04/2021	07:00-19:00			75	37	36	70
09/04/2021	19:00-23:00			60	42	39	60
09/04/2021	23:00-07:00	44	39	45	34	28	45
10/04/2021	07:00-19:00			75	45	37	70
10/04/2021	19:00-23:00			60	39	34	60
10/04/2021	23:00-07:00	42	42	45	37	34	45
11/04/2021	07:00-23:00	46	36	60	47	35	60
11/04/2021	23:00-07:00	45	41	45	39	36	45
12/04/2021	07:00-19:00			75	37	31	70
12/04/2021	19:00-23:00			60	34	31	60
12/04/2021	23:00-07:00	43	37	45	37	33	45
13/04/2021	07:00-19:00			75	47	47	70
13/04/2021	19:00-23:00			60	37	30	60
13/04/2021	23:00-07:00	44	38	45	44	36	45
14/04/2021	07:00-19:00			75	44	40	70
14/04/2021	19:00-23:00	31	31	60	44	36	60
14/04/2021	23:00-07:00	42	34	45	42	37	45

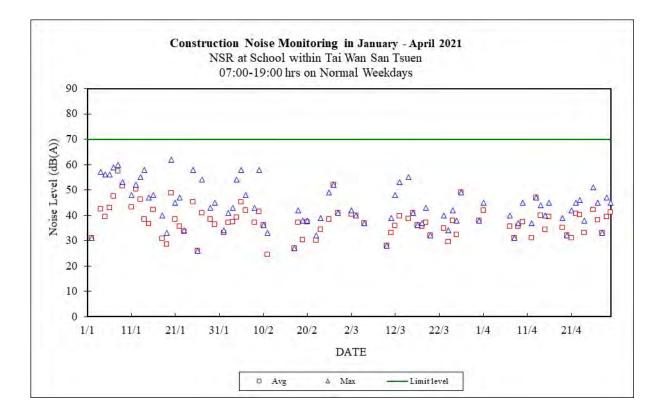
15/04/2021	07:00-19:00			75	40	34	70
15/04/2021	19:00-23:00			60	38	34	60
15/04/2021	23:00-07:00			45	38	33	45
16/04/2021	07:00-19:00			75	45	39	70
16/04/2021	19:00-23:00	43	43	60	39	37	60
16/04/2021	23:00-07:00	45	36	45	35	29	45
17/04/2021	07:00-19:00	53	53	75			70
17/04/2021	19:00-23:00			60			60
	23:00-07:00	25	25	45	39	35	45
17/04/2021 18/04/2021	07:00-23:00	44	34	45 60	45	33	60
18/04/2021	23:00-07:00	44	39	45	43	34	45
19/04/2021	07:00-19:00	52	44	75	39	35	70
19/04/2021	19:00-23:00	52	44	60	44	36	60
19/04/2021	23:00-07:00	43	33	45	43	33	45
20/04/2021	07:00-19:00	48	48	75	32	32	70
20/04/2021	19:00-23:00	53	45	60	32	30	60
20/04/2021	23:00-07:00	32	32	45	36	31	45
21/04/2021	07:00-19:00	50	45	75	42	31	70
21/04/2021	19:00-23:00	51	43	60	48	36	60
21/04/2021	23:00-07:00	44	40	45	37	37	45
22/04/2021	07:00-19:00			75	45	41	70
22/04/2021	19:00-23:00	13	13	60	28	28	60
22/04/2021	23:00-07:00	42	42	45	37	37	45
23/04/2021	07:00-19:00			75	46	40	70
23/04/2021	19:00-23:00			60			60
23/04/2021	23:00-07:00			45	35	27	45
24/04/2021	07:00-19:00			75	38	33	70
24/04/2021	19:00-23:00			60	37	31	60
24/04/2021	23:00-07:00			45	40	33	45
25/04/2021	07:00-23:00			60	42	31	60
25/04/2021	23:00-07:00	45	39	45	43	37	45
26/04/2021	07:00-19:00			75	51	42	70
26/04/2021	19:00-23:00	44	38	60	38	31	60
26/04/2021	23:00-07:00	45	37	45	42	33	45
27/04/2021	07:00-19:00	44	43	75	45	38	70
27/04/2021	19:00-23:00	34	33	60	37	31	60
27/04/2021	23:00-07:00	45	38	45	45	35	45
28/04/2021	07:00-19:00			75	33	33	70
28/04/2021	19:00-23:00			60			60
28/04/2021	23:00-07:00	45	42	45	32	29	45
29/04/2021	07:00-19:00			75	47	40	70
29/04/2021	19:00-23:00			60	47	44	60
29/04/2021	23:00-07:00	41	39	45	36	36	45
30/04/2021	07:00-19:00			75	45	41	70
30/04/2021	19:00-23:00	45	40	60			60
30/04/2021	23:00-07:00	37	34	45	44	43	45

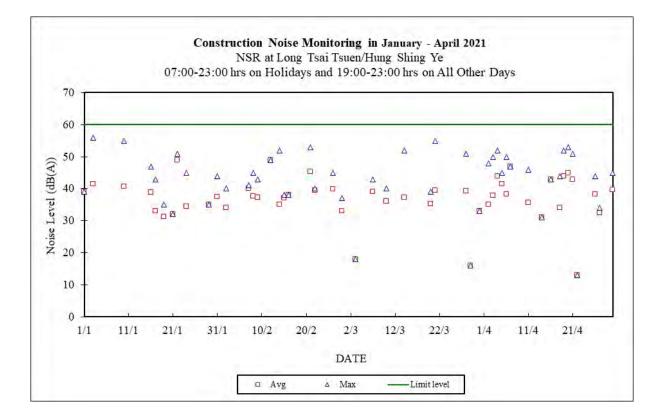
Note:

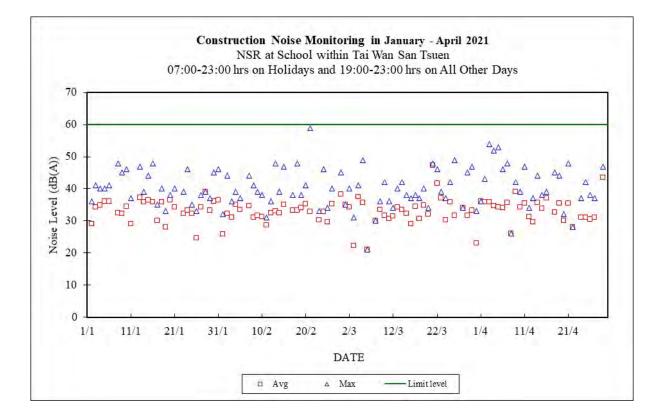
a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.

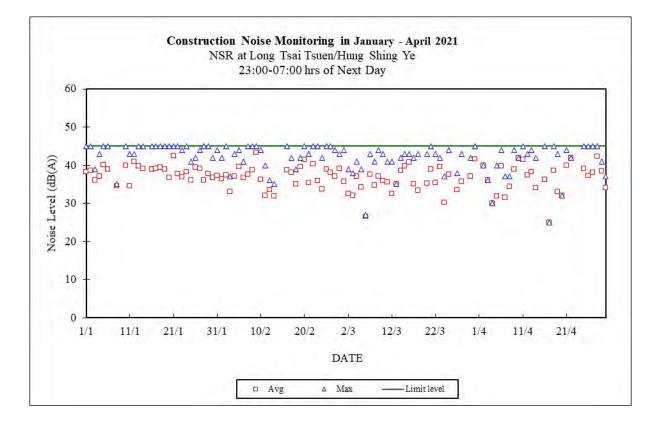
b. Continuous noise monitoring was also carried out at holidays & eveningtime (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time (23:00-07:00 hrs of next day).

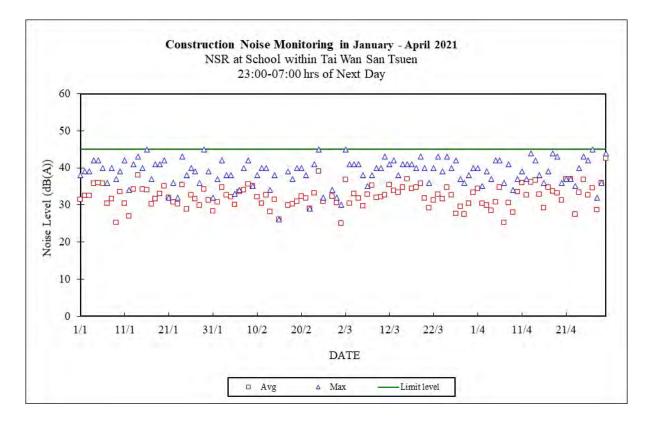












Appendix F

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: April Year: 2021

Reservoir (AM1)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l <i>i</i> min) (12.30 - 15.04)	
6/4/2021	268.326	4	3.06	13.70	
12/4/2021	269.972	4	3.04	13.81	
18/4/2021	269.478	4	3.06	13.60	
24/4/2021	268.501	4	3.03	13.53	
30/4/2021	268.086	4	3.01	13.63	

East Gate (AM2)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (I <i>I</i> min) (12.30 - 15.04)
6/4/2021	249.104	4	2.74	13.86
12/4/2021	251.536	4	3.01	13.69
18/4/2021	251.074	4	3.01	13.76
24/4/2021	250.203	4	3.01	13.63
30/4/2021	249.837	4	3.09	13.92

	Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l <i>í</i> min) (12.30 - 15.04)	
6/4/2021	255.468	4	3.00	13.68	
12/4/2021	255.060	4	3.00	13.68	
18/4/2021	254.704	4	3.00	13.68	
24/4/2021	256.342	4	3.00	13.68	
30/4/2021	256.058	4	3.00	13.68	

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

<u>Remarks:</u>

Prepared by: Chris Chan

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

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
19/04/2021 / 10:15	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR33
New filter paper no.	MR34

Type of filter: Glass-fibre

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

Before: After:

<u>5.023</u> 5.023 (No adjustment)

II. General Services

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

<u>Remarks</u>

N/A

Conducted by: WM Tam

Checked by: SM Hon

The Hongkong Electric Co., Ltd. Lamma Power Station Extension Noise Monitoring Station Site Visit Log Sheet

Location: Ching Lam

Date/Time	Staff Attended
12/4/2021 / 13:45	WM Tam

Equipment	Serial No.
B&K 2250	3008903

1. Calibration

Acoustic calibrator:

B&K 4231 (S/N: 2730419)

<u>94.0</u> (94 ±1.0 dBA)

Noise level measured in calibration:

- 2. Weather Conditions
 - a. Fine
 - b. Calm
- 3. Remark/Observation

N/A

Prepared by: WM Tam

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

Data	Locatio	n: Ash Lagoon
Date	Calibration Results	Deviation from Reference (dB)
01/04/2021	Passed	-0.06
02/04/2021	Passed	-0.04
03/04/2021	Passed	-0.06
04/04/2021	Passed	-0.07
05/04/2021	Passed	-0.07
06/04/2021	Passed	-0.05
07/04/2021	Passed	-0.05
08/04/2021	Passed	-0.08
09/04/2021	Passed	-0.07
10/04/2021	Passed	-0.07
11/04/2021	Passed	-0.06
12/04/2021	Passed	-0.05
13/04/2021	Passed	-0.03
14/04/2021	Passed	-0.05
15/04/2021	Passed	-0.07
16/04/2021	Passed	-0.05
17/04/2021	Passed	-0.10
18/04/2021	Passed	-0.07
19/04/2021	Passed	-0.08
20/04/2021	Passed	-0.07
21/04/2021	Passed	-0.07
22/04/2021	Passed	-0.04
23/04/2021	Passed	-0.05
24/04/2021	Passed	-0.04
25/04/2021	Passed	-0.07
26/04/2021	Passed	-0.06
27/04/2021	Passed	-0.07
28/04/2021	Passed	-0.06
29/04/2021	Passed	-0.05
30/04/2021	Passed	-0.05

Remarks:

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

Appendix G Event/Action Plans

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

Table G.1Event and Action Plans for Air Quality

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

Table G.2Event and Action Plans for Construction Noise	
--	--

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: 7/4/2021, 13/4/2021, 22/4/2021, and 26/4/2021.

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: 1/4/2021, 8/4/2021, 15/4/2021, 22/4/2021 and 29/4/2021.

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: 7/4/2021, 13/4/2021, 22/4/2021 and 26/4/2021.

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

D	Task Name	Duration	Start	Finish	N A	1	I
1	Civil and Building Works for Unit 11 and Assoicated Works	<u>1197 days</u>	Fri 1/6/18	Thu 30/9/21	May		Jun
	Contract Key Dates	1197 days	Fri 1/6/18	Thu 30/9/21			
•	Contract Commencement Date	0 days	Fri 1/6/18	Fri 1/6/18			
	Completion Dates	1044 days	Wed 31/10/18				
5	Section A1 - Ground treatment installation works at Zone 1A	0 days	Wed 31/10/18	Wed 31/10/18			
6	Section A2 - Ground treatment installation works at Zone 1B	0 days	Wed 31/10/18	Wed 31/10/18			
7	Section A3 - Ground treatment installation works at Zone 2	0 days		Sun 17/3/19			
8	Section A4 - Ground treatment installation works at Zone 3	0 days		Thu 21/3/19			
9	Section A5 (i) - Ground treatment installation works at Zone 4 - Band drain installation	0 days		Thu 28/3/19			
0	Section A5 (ii) - Ground treatment installation works at Zone 4 - Surcharge filling	0 days	Wed 30/9/20	Wed 30/9/20			
1	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			
2	Section A6 (ii) - External works at Area E15	0 days	Sat 15/2/20	Sat 15/2/20			
3	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards	0 days	Sun 1/3/20	Sun 1/3/20			
4	leading to Chimney Road at Area E1 & E2 Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB	0 days		Tue 17/3/20			
	including the associated roof structure except the roof deferred works	0 auyo	100 1115/20	140 17/0/20			
5	Section B1 (iii) - FSRU Civil works at Area E13	0 days	Mon 31/5/21	Mon 31/5/21		♦ Section B1 (iii)	- FSRU Civil v
6	Section B2 - Retractable Cover D at Area E22	0 days		Tue 31/3/20		• • • • • • • • • • • • • • • • • • • •	
7	Section B2 - Retractable Cover D at Area E22 Section B3 - External works at Area B1, D2 and D4	0 days		Thu 30/4/20			
8	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			
9	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	0 days	Thu 30/4/20	Thu 30/4/20			
21	reservoir 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	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			
4	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			
5	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			
7	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			
8	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	Tue 30/6/20			
9	Section E1 - (iii) External Works at Area E15 (C)	0 days	Sun 28/2/21	Sun 28/2/21			
0	Section E2 - Pipe and Cable Rack and trench at west of Chimney Road and	0 days		Thu 17/9/20			
1	Pipe and Cable Rack at south of Middle Road at Area E8 and E19 Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated	0 days		Tue 30/6/20			
	external works at Area E14, E15 (A) and E15 (B)	•					
2	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			
33	Section F - 275kV Station Building Extension and associated works at Area E17	0 days		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			
35	Section H - L11 Steel flue liner at No. 4 Chimney	0 days	Mon 15/7/19	Mon 15/7/19			

17-8002 Master Prog Rev 3

Task

Split Milestone ♦

Summary 🛡

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		Appendix J
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Area E13		

ID	Task Name	Duration	Start	Finish		-	
36	Section I - (i) 275kV cable trenching works connecting the 275kV Switching	0 days	Fri 15/5/20	Fri 15/5/20		Мау	Jun
	Station Extension and L11 MSB at Area E9 (B)	0 uu j5					
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		Secti	on J - (i) Demolition of Retractable Cover A&B &	
39	Section K1 - External works at Area 15 (E) and 15(F)	0 days	Mon 31/5/21				Section K1 - External works at Are
0	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			Section K2 - Removal of Southern
11	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	<u>General & Preliminary</u>	<u>318 days</u>		Wed 24/4/19			
43	Set up Temporary Site Office and Utilities	90 days		Wed 29/8/18			
4	Permit Applications & Statuary Submissions	120 days	Thu 30/8/18				
15	Existing Utilities scanning & Excavation Permit	45 days	Tue 13/11/18				
-6	Tower Crane erection 2@MSB, 1@ 275	50 days		Wed 24/4/19			
7	Submission and Approval	<u>554 days</u>		<u>Mon 16/12/19</u>			
8	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	Fri 1/6/18	Sat 26/1/19			
9	BD Approval & Consent (If required)	120 days	Fri 1/6/18	Fri 28/9/18			
0	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	Sat 29/9/18	Fri 26/4/19			
1	Structure Steelwork Connection Design Submission & BD Approval	60 days	Sat 29/9/18	Tue 27/11/18			
2	Structure Steelwork Shop Drawing & Approval	60 days	Sat 13/10/18	Tue 11/12/18			
3	Metal Cladding, louvre & windows submission & BD Approval	60 days	Wed 28/11/18	Sat 26/1/19			
4	Metal Cladding, louvre & windows shop drawing submission	60 days	Wed 12/12/18	Tue 19/2/19			
5	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	180 days	Sat 27/10/18	Sat 4/5/19			
3	Retractable Cover D BD Submission & Approval	90 days	Wed 20/2/19				
7	No. 4 C.W. Outfall A&A BD 1st Submission	90 days	Thu 30/8/18				
3	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	Sun 30/9/18				
0	Material Fabrication & Delivery for L11 Flue	•	Mon 15/10/18				
1	Folding Shutters Shop Drawing Submission & Approval	120 days	Wed 20/2/19				
2	Fabrication & Delivery of Folding Shutters	150 days	Thu 20/6/19				
63	Sewage Pump System Design submission & approval	90 days		Wed 19/6/19			
64	Fabrication & Delivery of Sewage Pump	180 days	Thu 20/6/19	Mon 16/12/19			
5	Other material submission & approval & delivery	300 days	Thu 30/8/18	Fri 5/7/19			
6	Coordination with the Employer's Specialist Contractors	478 days	Mon 20/5/19	Sat 19/9/20			
67	Installation of Puddle Pipes at C.W. outlet Culvert	7 days	Mon 20/5/19	Sun 26/5/19			
68	Installation of Puddle Pipes at C.W. Inlet Culvert	7 days	Sun 7/7/19	Sat 13/7/19			
9	Template setting at L11 Turbo Block Foundation	60 days	Wed 1/1/20	Mon 9/3/20			
0	Template setting of holding down bolts at HRSG column base	46 days	Tue 23/7/19				
′1	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	Tue 7/1/20			
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	127 days	Sun 1/3/20	Sun 5/7/20			
	a clear space below 1/F between GL 11-B to 11-C						
'4	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			
5	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			
76	foundations - Commencement	02.1	XX. 14/0/40	117. 1. 04 140 144			
	Section A1 & A2 - Ground treatment at Zone 1A & 1B	<u>92 days</u>		Wed 31/10/18			
77 79	Plant establishment for earthworks	7 days		Tue 7/8/18			
78 79	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	45 days		Fri 21/9/18			
	Delivery of band drain	5 days	Wed 29/8/18				
80 P1	Plant establishment for band drain (1st rig)	10 days	Mon 3/9/18				
81 82	Plant establishment for band drain (2nd rig) Plant establishment for band drain (3rd rig)	7 days 7 days	Thu 20/9/18 Thu 11/10/18				
	Fight Astablishment for hand drain (3rd rig)	/ dave	$\pm 100 11/10/18$	M = 0 + 1 / (1) / (3)			

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Appendix J

Refer to CEM dated 26March2019

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age Tank Nos. 3 & 4 and A&A for Existing Bund Wall at Area E21

a 15 (E) and 15(F) Bund and External Works at Area D5, D6 and D7

ID	Task Name	Duration	Start Finish	R.A.
83	Vert. Band drain installation (1023 nos. x 44m)	45 days	Thu 13/9/18 Sat 27/10/18	May
84	Deposition of surcharge up to +8.3mPD	45 days	Mon 17/9/18 Wed 31/10/18	
85	Section A3 - Ground treatment installation works at Zone 2	<u>158 days</u>	Mon 1/10/18 Sun 17/3/19	
86	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	30 days	Mon 1/10/18 Tue 30/10/18	
87	Delivery of band drain	6 days	Thu 18/10/18 Tue 23/10/18	
88	Vert. Band drain installation (1787 nos. x 44m)	50 days	Wed 24/10/18Wed 12/12/18	
89 90	Deposition of surcharge up to +8.3mPD Additional Concrete Blocks + Extra Surcharge	60 days 60 days	Mon 3/12/18 Thu 31/1/19 Mon 7/1/19 Sun 17/3/19	
90	Section A4 - Ground treatment installation works at Zone 3	131 days	Thu 1/11/18 Thu 21/3/19	
92	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	12 days	Thu 1/11/18 Mon 12/11/18	
93	Vert. Band drain installation	60 days	Fri 9/11/18 Mon 7/1/19	
94	Deposition of surcharge up to +8.3mPD	45 days	Tue 18/12/18 Thu 31/1/19	
95 96	Possession of Part 1 Defer portion at Zone 3 Vert. Band drain installation	0 days 10 days	Wed 20/2/19 Wed 20/2/19 Wed 20/2/19 Fri 1/3/19	
90	Possession of Part 2 Defer portion at Zone 3	0 days	Fri 1/3/19 Fri 1/3/19	
98	Vert. Band drain installation	7 days	Fri 1/3/19 Thu 7/3/19	
99 100	Surcharge at deferred portion	14 days	Fri 8/3/19 Thu 21/3/19	
100	Site Preparation for Vertical Band Drain	83 days 3 days	Wed 26/12/18 Thu 28/3/19 Tue 1/1/19 Thu 3/1/19	
102	Band drain installation	21 days	Wed 26/12/18 Tue 15/1/19	
103	Possession of Defer portion at Zone 4	0 days	Fri 1/3/19 Fri 1/3/19	
104	Vert. Band drain installation	28 days	Fri 1/3/19 Thu 28/3/19	
105 106	Section A5 (ii) - Surcharge works at Zone 4	<u>30 days</u>	<u>Tue 1/9/20</u> <u>Wed 30/9/20</u>	
106	Deposition of surcharge up to +8.3mPD	30 days	Tue 1/9/20 Wed 30/9/20	
107	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18 BD Amendment, resubmission & approval for Jacking Pit	493 days 170 days	Thu 1/11/18 Sat 28/3/20 Thu 1/11/18 Mon 29/4/19	
109	Consent for Jacking Pit ELS	28 days	Sat 20/4/19 Fri 17/5/19	
110	Mobilization	0 days	Sat 15/12/18 Sat 15/12/18	
111	Jacking Pit Sheetpile Installation (incl. Stop work notice + CNY)	60 days	Sun 16/12/18 Sat 23/2/19	
112	Protective screen and preventive measure for U9 gas pipeline (VO)	28 days	Sun 24/2/19 Sat 23/3/19 Sun 14/4/10 Sat 11/5/10	
113 114	Provision of temp support for U10 gas pipeline (VO) upon RMA allow access ELS of jacking pit	28 days 30 days	Sun 14/4/19 Sat 11/5/19 Sat 18/5/19 Sun 16/6/19	
115	Pipe Jacking set up & ground strengthing	18 days	Mon 17/6/19 Thu 4/7/19	
116	Pipe Jacking	90 days	Tue 10/9/19 Sun 8/12/19	
117	Receiving Pit BD Approval	170 days	Sun 25/11/18 Thu 23/5/19	
118 119	Consent for Pipe & Sheet pile	28 days	Tue 14/5/19 Mon 10/6/19 Tue 11/6/19 Wed 10/7/19	
120	Receiving Pit Pipe & Sheet pile installation Consent for Receiving Pit ELS	30 days 28 days	Tue 11/6/19 Wed 10/7/19 Thu 4/7/19 Wed 31/7/19	
121	ELS of Receiving pit	40 days	Thu 1/8/19 Mon 9/9/19	
122	Allow modify existing outfall manhole for pipe jacking receiving	18 days	Tue 10/9/19 Fri 27/9/19	
123	Culvert Pipe Intallation & water test	55 days	Mon 9/12/19 Wed 12/2/20	
124	Inspection Manhole at Jacking Pit + backfill (Area E3(A))	18 days	Thu 13/2/20 Sun 1/3/20	
125	Manhole extension at Outfall no. 4 + backfill + Reinstate of Outfall Rd	45 days	Thu 13/2/20 Sat 28/3/20	
126 127	Sheetpile for L12 Outlet culvert (Connection to Jacking Pit) Consent + ELS for remaining jacking pit	45 days 75 days	Mon 15/7/19 Wed 28/8/19 Thu 29/8/19 Mon 11/11/19	
127	Outlet Culvert pipe installation + Thrust Box (remaining portion at A1 Area)	45 days	Tue 12/11/19 Sat 28/12/19	
129	Sheet pile for future extension along GRS	60 days	Thu 29/8/19 Sun 27/10/19	
130	Section A6 (ii) - External works at Area E15(D)	<u>37 days</u>	Wed 1/1/20 Sat 15/2/20	
131	Arae possession & Clearance	6 days	Wed 1/1/20 Mon 6/1/20	
132	Road & Surface Works	31 days	Tue 7/1/20 Sat 15/2/20	
133	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards	<u>375 days</u>	<u>Thu 31/1/19</u> <u>Sun 1/3/20</u>	
134	leading to Chimney Road at Area E1 & E2	0 4	Thu 21/1/10 Th 21/1/10	
134	Area Possession & Clearance Excavation for CW Inlet Culvert (South of L11 HRSG)	0 days 21 days	Thu 31/1/19 Thu 31/1/19 Tue 16/4/19 Mon 6/5/19	
135	Installation CW Inlet Culvert (South of L11 HRSG)	21 days 30 days	Tue 16/4/19 Mon 6/5/19 Tue 7/5/19 Wed 5/6/19	
137	Construction of Thrust Box & Manholes,etc	14 days	Thu 6/6/19 Wed 3/6/19	
138	Backfill	21 days	Thu 20/6/19 Wed 10/7/19	
139	Install underground utilities	45 days	Mon 30/9/19 Wed 13/11/19	
140	Backfill and Temporary paving for Condensor Move in (E1)	14 days	Mon 17/2/20 Sun 1/3/20	
141	Backfill and Temporary paving for Condensor Move in (others)	30 days	Sat 1/2/20 Sun 1/3/20	
142	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB	<u>482 days</u>	<u>Thu 1/11/18</u> <u>Tue 17/3/20</u>	
4.40	including the associated roof structure except the roof deferred works			
143	Area possession & Clearance	0 days	Thu 1/11/18 Thu 1/11/18	

)	Task Name	Duration	Start	Finish		May	Ju
14	Erection of turbine hall roof except defer work	0 days	Wed 13/11/19	Wed 13/11/19		May	JL
45	Installation of crane griders	21 days	Mon 11/11/19				
146	Turbine hall wall claddings	60 days		Tue 17/3/20			
47	Section B1 (iii) - FSRU Civil works at Area E13 (GRS)	151 days		Mon 31/5/21	c.B1(ii)	31 May '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		Civil & Building Works	
150	Ground reinstatement	21 days		Mon 31/5/21		*	Ground reinstatement
151	Section B2 - Retractable Cover D at Area E22	435 days		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	Foundation construction	60 days		Mon 7/10/19			
155	Backfill & Ground reinstatement	30 days		Wed 6/11/19			
156	Superstructure fabrication & delivery	90 days		Wed 6/11/19			
157	Superstructure erection	90 days		Sat 15/2/20			
158	E&M Installation and T&C	45 days		Tue 31/3/20			
159	Section B3 - External works at Area B1, D2 and D4	416 days	Fri 1/3/19	Thu 30/4/20			
160	Receive Area from HKE, Area Possession & Clearance	0 days	Fri 1/3/19	Fri 1/3/19			
161	Receive Area from FixE, Area Possession & Clearance 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	•	Sat 1/2/20	Thu 28/3/19 Thu 30/4/20			
164		90 days					
104	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	<u>466 days</u>	<u>Thu 1/11/18</u>	<u>Sun 1/3/20</u>			
165		0.1	T 1 1/11/10	751 1/11/10			
	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		Mon 6/5/19			
168	Installation CW Inlet Culvert pipe (South of L11 Condensor)	21 days	Mon 20/5/19				
169	Construction of Thrust Box	10 days		Wed 19/6/19			
170	Construction of Access Manhole	21 days	Mon 10/6/19				
171	Backfill	14 days		Sun 14/7/19			
172	Construction of Underground drainage and utilities	60 days	Thu 7/11/19	Tue 7/1/20			
173	Construct Temp Paving for Condenser move in	45 days		Sun 1/3/20			
174	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area	<u>295 days</u>	<u>Thu 31/1/19</u>	<u>Sun 1/12/19</u>			
175	E7 (No Defer Foundations)	0.1	T1 21/1/10	TTI 21/1/10			
175	Area Possession & Clearance	0 days		Thu 31/1/19			
	Excavation & Pile Caps & Tie Beams (HRSG South Area E7)	45 days	Sun 19/5/19				
177	Construction RC foundations	45 days		Thu 22/8/19			
178	Construction RC plinths	30 days		Sat 21/9/19			
179	Construction underground utilities	45 days		Sun 6/10/19			
180	Backfill & Construction on-grade slabs	35 days		Sun 10/11/19			
181	Backfill and Temporary paving	21 days	Mon 11/11/19				
182	Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground	<u>496 days</u>	<u>Sat 1/12/18</u>	<u>Thu 30/4/20</u>			
	floor together with the equipment foundations between GL 11-F to 11-H and						
	<u>11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil</u>						
	<u>reservoir</u>						
183	Area Possession & Clearance	0 days		Sat 1/12/18			
184	Excavation & Pile Caps & Tie Beams (MSBL11 - Turbo Block North)	70 days		Wed 3/4/19			
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 7/1/20			
89	Construction turbine block columns and upper portion for plant embed installation	21 days	Mon 9/9/19	Sun 29/9/19			
90	Concrete Turbine upper part foundation & clear falsework	52 days	Tue 10/3/20	Thu 30/4/20			
191	Section C2 - (iii) G/F of L11 MSB including the Condenser Pit, Circulating	<u>466 days</u>		Sun 1/3/20			
	Water Pipe Pit and equipment foundations between GL 11-B to 11-C and 11-1	<u></u>	<u></u>	<u>out 10/20</u>			
100	to 11-6 for the installation of condenser	0.1					
192	Area Possession & Clearance	0 days		Thu 1/11/18			
193	Excavation to foundation level at ELS Type A	18 days		Tue 30/4/19			
194 195	Construction of CW Outlet Box + lowest tie beam & caps	40 days		Sun 9/6/19			
	Construction of pile caps & tie beams & hot well sump pit up to +2.5mPD	30 days	Mon 10/6/19				

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שו	Task Name	Duration	Start Finish	
196	Backfill & Construction of CW Inlet Box + tie beams	18 days	Wed 10/7/19 Sat 27/7/19	
197	Backfill and Construction ground beams & trenches	18 days	Sun 28/7/19 Wed 14/8/19	
198	Construction of indoor underground drainage	12 days	Thu 15/8/19 Mon 26/8/19	
199	Backfill & construction on-grade slabs	10 days	Tue 27/8/19 Thu 5/9/19	
200	Construction Column casting and RC walls	30 days	Mon 30/9/19 Tue 29/10/19	
201	Metal Cladding & Louvres for GLB-C/1-6	60 days	Thu 28/11/19 Thu 6/2/20	
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	<u>414 days</u>	Thu 1/11/18 Tue 31/12/19	
	HRSG in addition to the southern & eastern areas mentioned above in Area			
	<u>E5 and E6</u>			
204	Area Possession & Clearance	14 days	Thu 1/11/18 Wed 14/11/18	
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	Tue 16/4/19 Mon 6/5/19	
207	Backfill	10 days	Tue 7/5/19 Thu 16/5/19	
208	Undeground utilities and trenches	60 days	Wed 3/7/19 Sat 31/8/19	
209	Construction of plant drainage, trenches & RC plinths	45 days	Sun 1/9/19 Tue 15/10/19	
210	Remaining Undeground utilities & backfill (West of Tx Bay)	75 days	Wed 16/10/19 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>	
24.0	surrounding in Area E6	0.1		
212	Area Possession & Clearance	0 days	Thu 31/1/19 Thu 31/1/19	
213	Excavation & Pits & Pile Caps & Tie Beams (HRSG north Area E6)	45 days	Thu 4/4/19 Sat 18/5/19	
214	Construction RC foundations	45 days	Sun 19/5/19 Tue 2/7/19	
215	Construction RC plinths & HRSG Lift Pit & internal drainage	60 days	Sun 9/6/19 Wed 7/8/19	
216 217	Backfill Construction on-grade slabs	28 days	Thu 8/8/19 Wed 4/9/19	
217	Construction underground utilities	45 days	Thu 5/9/19 Sat 19/10/19	
210	Backfill, Remaining utilities and temporary paving Touch up and site clearance	85 days 13 days	Thu 14/11/19 Mon 17/2/20 Tue 18/2/20 Sun 1/3/20	
219	Section D - (iii) Whole of L11 MSB including the pipe and cable rack along	526 days	Thu 1/11/18 Thu 30/4/20	
	south façade of L11 MSB with all underground utilities at Area E4 including	<u>520 uays</u>	<u>Inu 1/11/10</u> <u>Inu 30/4/20</u>	
	C.W. Inlet and Outlet Culvert except the deferred works			
221	Area Possession & Clearance	0 days	Thu 1/11/18 Thu 1/11/18	
222	Construction of pile caps & tie beams at Transformer Area	60 days	Thu 15/11/18 Sun 13/1/19	
223	Excavation & Construction Blow Down Sum pit (Type B)	45 days	Thu 4/4/19 Sat 18/5/19	
224	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Wed 10/7/19 Fri 23/8/19	
225	Preaparation for S.Steelwork Erection	14 days	Wed 3/7/19 Tue 16/7/19	
226	Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	30 days	Wed 17/7/19 Thu 15/8/19	
227	Structural Delivery & Erection (Equipment Floors)	45 days	Fri 16/8/19 Sun 29/9/19	
228	Structural Delivery & Erection (Turbine Hall South)	45 days	Mon 30/9/19 Wed 13/11/19	
229	Fire Coating Application at Joint	120 days	Fri 16/8/19 Fri 13/12/19	
230	External Scaffolding Erection	150 days	Wed 31/7/19 Sun 29/12/19	
231	Construction 1/F RC Slab	14 days	Mon 30/9/19 Sun 13/10/19	
232	Construction M/F RC Slab	•	Mon 14/10/19 Sun 20/10/19	
233	Construction 2/F RC Slab		Mon 14/10/19 Sun 27/10/19	
234	Construction 3/F RC Slab	14 days	Mon 28/10/19 Sun 10/11/19	
235	Construction 4/F RC Slab		Mon 11/11/19 Sun 24/11/19	
236	Construction 5/F RC Slab (Roof of turbine hall, except defer portion)		Mon 25/11/19 Tue 24/12/19	
237	Construction Roof RC Slab	14 days	Mon 9/12/19 Sun 22/12/19	
238	Construction Upper Roof RC Slab	12 days	Fri 27/12/19 Tue 7/1/20	
239	Construction Defer Roof RC Slab (G.L. G-H)	30 days	Wed 8/1/20 Sat 15/2/20	
240	Construction of Staircase ST-01 & lift shaft & machine room	120 days	Fri 30/8/19 Sun 29/12/19	
241	Construction of Staircase ST-02 except defer work		Mon 28/10/19 Mon 13/1/20	
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	Fri 21/2/20 Sun 5/4/20	
244	Waterproofing & Flooring at Roof	60 days	Wed 8/1/20 Mon 16/3/20	
245	ABFW Works from 1/F to 5/F equipment rooms		Mon 21/10/19 Sun 29/3/20	
246	Metal Cladding, Windows and Louvres incl. roof feature		Thu 28/11/19 Tue 17/3/20	
247	Removal of external scaffolding	60 days	Mon 17/2/20 Thu 16/4/20	
248	Building Services E&M Access & Installation	-	Mon 4/11/19 Sun 12/4/20	
	Bunding Services Earn Access & Installation			
249	Remaining and Mis. works for Plant erection Full Access	18 days	Mon 13/4/20 Thu 30/4/20	

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ID	Task Name	Duration	Start	Finish	
250	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	
	L11 MSB including their associated alternations & additions (A&A) Works at	<u>e 20 au jo</u>		1114 0 01 1120	
	L10 MSB				
251	Area Possession & Clearance	0 days		Thu 1/11/18	
252	A&A works at South of L10 MSB	60 days	Thu 28/11/19		
253	Erection of link bridge structural steel	21 days		Thu 27/2/20	
254	Casting of bridge deck	7 days	Fri 28/2/20	Thu 5/3/20	
255	Metal roofing installation	14 days	Fri 6/3/20	Thu 19/3/20	
256	ABWF work	21 days	Fri 20/3/20	Thu 9/4/20	
257	Form new opening at MSB for final connection	14 days	Fri 27/3/20		
258	E&M Work for completion	21 days		Thu 30/4/20	
259	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated	<u>345 days</u>	<u>Mon 11/2/19</u>	<u>Sat 1/2/20</u>	
260	trench in Area E20	0.1	Mar. 11/2/10	Mar. 11/2/10	
260 261	Area Possession & Clearance + CNY Sheet pile installation & submit as-built	0 days		Mon 11/2/19	
262		75 days	Mon 11/2/19		
262	Consent for excavation	28 days	Sat 27/4/19	Mon 15/7/19	
203 264	Excavation & plate load test Construction of foundation	45 days 45 days		Thu 29/8/19	
264 265	Backfill & Underground utilties	45 days 30 days		Sat 28/9/19	
265	Remaining Pipe & cable rack and associated trenchs in Area E20	115 days	Sun 29/9/19		
200 267	Section E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to	<u>263 days</u>		Mon 28/9/20	
	<u>Section E1 - (1) Link Bridge and Pipe and Cable Kack connecting E11 MSB to</u> the western area of L11 MSB at Area E3	<u>205 uays</u>	<u>weu 1/1/20</u>	11011 26/9/20	
268	Area Possession	0 days	Wed 1/1/20	Wed 1/1/20	
269	Excavation & construction of new foundation	40 days		Tue 18/2/20	
270	Backfill	10 days	Wed 1/1/20 Wed 19/2/20		
271	Erection of Structural steel	30 days	Mon 6/7/20		
272	Backfill & Ground works	55 days		Mon 28/9/20	
273	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station	173 days		<u>Tue 30/6/20</u>	
	Equipment Room (GRS) Area Extension at Area E16				
274	Area Possession	0 days	Wed 1/1/20	Wed 1/1/20	
275	Removal of Surcharge and excavation	14 days		Tue 14/1/20	
276	Modification of Site Drainage	45 days	Wed 15/1/20		
277	Construction of new RC for GRS Equipment Room	75 days		Mon 6/4/20	
278	ABWF for GRS Equipment room	45 days		Thu 21/5/20	
279	E&M Installation	45 days		Tue 30/6/20	
280	Construction of new Gas pipe plinths & racks	45 days	Sat 22/2/20	Mon 6/4/20	
281	Backfill and construction site drainage	21 days		Mon 27/4/20	
282	External Paving and install new fencing	60 days		Tue 30/6/20	
283	<u>Section E1 - (iii) External Works at Area E15 (C)</u>	273 days		Sun 28/2/21	c.E1(
284	Removal of Surcharge and excavation	45 days		Wed 15/7/20	
285	Underground drianage, Utilities and RC plinths	123 days		Sun 15/11/20	
286	Backfill and install surface utilities		Mon 16/11/20		
287	Roadwork	60 days	Thu 31/12/20		
288	Section E2 - Pipe and Cable Rack and trench at west of Chimney Road and	<u>495 days</u>	Wed 1/5/19	<u>Thu 17/9/20</u>	
	Pipe and Cable Rack at south of Middle Road at Area E8 and E19				
289	BD consent + Site Possession @ Area E8	0 days		Wed 1/5/19	
290	Excavation & Plate load test	60 days	Wed 1/5/19	Sat 29/6/19	
291 292	Foundation and Trench constructions	90 days 60 days	Sun 30/6/19 Sat 28/9/19	Fri 27/9/19 Tue 26/11/19	
292 293	Backfill & underground utitiles + temp paving	-	Wed 27/11/19		
293 294	Excavation & plate load test @ E19 Construction of foundations & trenches	60 days 45 days		Sat 21/3/20	
294 295	Backfill & underground utitiles			Sat 21/3/20 Wed 20/5/20	
295 296		60 days		Sun 19/7/20	
290 297	Pipe & cable rack Erection Ground reinstatement	60 days 60 days	Mon 20/7/20		
298	Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated	173 days		Tue 30/6/20	
	external works at Area E14, E15 (A) and E15 (B)	<u>175 uays</u>	<u>weu 1/1/20</u>	<u>1 ue 30/0/20</u>	
299	Removal of surcharge / site clearance	21 days	Wed 1/1/20	Tue 21/1/20	
300	Excavation & construction of pipe trench	30 days	Wed 1/1/20 Wed 22/1/20		
301	Construction of gas pipe support foundation	30 days		Mon 30/3/20	
302	Construction of underground drainage and utilities	60 days	Tue 31/3/20		
		ou uavs	1 uc 31/3/20	11127/3/20	1 1

ID	Task Name	Duration	Start	Finish	N.4	
303	Backfill & road work	32 days	Sat 30/5/20	Tue 30/6/20	May	
04	Section E4 - 275kV cable trenching works connecting the 275kV Switching	<u>185 days</u>	Fri 15/3/19	Sun 15/9/19		
	Station Extension and L11 MSB at Area E9 (A)	<u>105 uays</u>	<u>FII 15/5/17</u>	<u>Sull 13/9/19</u>		
05	Site possession	0 days	Fri 15/3/19	Fri 15/3/19		
005 006			Fri 15/3/19	Sun 24/3/19		
00	Obtain Permit to work & Road close permit	10 days				
	Excavation & construction new cable trench to 275kV	45 days	Mon 25/3/19			
808	Excavation & construction new cable trench to L11MSB	130 days	Thu 9/5/19	Sun 15/9/19		
09	Section F - 275kV Station Building Extension and associated works at Area	<u>709 days</u>	<u>Fri 1/6/18</u>	<u>Sat 30/5/20</u>		
	<u>E17</u>					
10	Installation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6	14 days	Fri 1/6/18	Thu 14/6/18		
811 812	Construction of Staircase ST-3 BD Amendment Approval on A&A	110 days	Fri 15/6/18 Mon 17/12/18	Tue 2/10/18		
12	BD Amendment Approval on A&A ST3 & Drainage	0 days 0 days	Mon 4/2/19	Mon 4/2/19		
14	OP inspection of Staircase ST-3	14 days	Mon 11/2/19	Sun 24/2/19		
15	Consent of New Foundation Works (Stage 1)	0 days	Fri 19/10/18	Fri 19/10/18		
16	Consent & BA10 for Demolition of Existing Staircase	0 days	Fri 8/3/19	Fri 8/3/19		
17	Demolition of Exisiting Staircase and Submit BA14A	14 days	Sat 9/3/19	Fri 22/3/19		
18	BD inspection for BA14A & Issue OP	28 days	Sat 23/3/19	Fri 19/4/19		
19	Consent & BA10 for New Foundation Work (Stage 2)	28 days	Sat 13/4/19	Fri 10/5/19		
20	Hoarding Modification	7 days	Fri 19/10/18	Thu 25/10/18		
21	Pile Cap & Tie Beam Construction (Stage 1)	98 days	Fri 26/10/18	Thu 31/1/19		
22	Erection of Tower Crane	40 days	Mon 11/2/19	Fri 22/3/19		
23	Pile Cap and Tie Beam (Stage 2)	21 days	Sat 11/5/19	Fri 31/5/19		
24	RC Construction up to 1/F (Stage 1)	30 days	Sat 11/5/19	Sun 9/6/19		
25	RC Construction up to 1/F (Stage 2)	75 days	Sat 1/6/19	Wed 14/8/19		
26	Construction of Staircase ST6	90 days	Sun 15/9/19	Fri 13/12/19		
27 28	Shop Drawing Submission & Approval of Structural Steel Structural Steel fabrication & Delivery	45 days 60 days	Wed 27/2/19 Sat 13/4/19	Fri 12/4/19		
20 29	Erection of Structural Steel GL 17~18	30 days	Fri 16/8/19	Tue 11/6/19 Sat 14/9/19		
29 30	Erection of Structural Steel GL 8~17	60 days	Sun 15/9/19	Wed 13/11/19		
31	Metal Cladding Delivery	60 days	Wed 7/8/19	Sat 5/10/19		
32	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	Mon 9/12/19		
36	Construction of 2/F RC slab	14 days	Tue 10/12/19	Mon 23/12/19		
37	Construction of R/F RC slab	21 days	Tue 24/12/19	Wed 15/1/20		
38	Construction of UR/F RC slab	14 days	Thu 16/1/20	Fri 7/2/20		
339	Construction of GIS Hall Floor	60 days	Tue 24/12/19	Tue 3/3/20		
340	Installation of Overhead Crane (By JEC)	60 days	Wed 4/3/20	Sat 2/5/20		
41	Construction of staircase ST4, ST5, Lift Shaft & Equip Floors	150 days	Sun 15/9/19	Sat 22/2/20		
42	Lift Installation	90 days	Sun 23/2/20	Fri 22/5/20		
43 44	Concrete of RC walls, plinths, kerb & parapet walls & New trench for LV Power ABWF Works @ G/F	30 days 50 days	Tue 24/12/19 Mon 14/10/19	Sun 2/2/20		
44 45	ABWF Works @ G/F ABWF Works @ 1/F	50 days	Wed 13/11/19	Fri 3/1/20		
45 46	ABWF Works @ 1/F ABWF Works @ 2/F	75 days	Fri 13/12/19	Sat 7/3/20		
40 47	ABWF Works @ R/F	30 days	Tue 14/1/20	Fri 21/2/20		
48	ABWF Works @ UR/F	21 days	Mon 3/2/20	Sun 23/2/20		
49	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	Tue 21/4/20		
51	Metal Cladding, Windows and Louvres incl. Roof Feature	90 days	Tue 24/12/19	Thu 2/4/20		
52	Shutter Erection	30 days	Fri 3/4/20	Sat 2/5/20		
53	Removal of External Scaffolding + Tower Crane	35 days	Fri 3/4/20	Thu 7/5/20		
54	External Underground Drainage and Utilities	30 days	Fri 17/4/20	Sat 16/5/20		
55	Road & Paving Reinstatement	30 days	Fri 1/5/20	Sat 30/5/20		
56	Ready for FSD & OP Inspection	0 days	Sat 30/5/20	Sat 30/5/20		
57	Section G - A&A Works at No. 4 C.W. Intake at Area E12	<u>143 days</u>		<u>Sun 31/5/20</u>		
58	Permit to work	0 days	Wed 1/1/20	Wed 1/1/20		
59	Erection of temp. platform	14 days	Wed 1/1/20	Tue 14/1/20		
60	Demolition work	30 days	Wed 15/1/20			
61	Modify existing slab openings	75 days	Sun 23/2/20			
62						
	Curing + Removal of platform	24 days	Fri 8/5/20	Sun 31/5/20		
63	Section H - L11 Steel flue liner at No. 4 Chimney	<u>186 days</u>		Mon 15/7/19		
64	Complete erection of L10 Steel flue	0 days	Tue 1/1/19	Tue 1/1/19		
865	Modification of erection equipment	21 days	Tue 1/1/19	Mon 21/1/19		
866	Erection temp. platform and demolition work	30 days	Tue 22/1/19			
867	Structural steel delivery & Erection	85 days		Sun 26/5/19		
368		-	Mon 27/5/19			
	Removal of temp. work	5 days				
69	Reinstate G/F louvre wall and access door	45 days	Sat 1/6/19	Mon 15/7/19		

	ask Name	Duration	Start	Finish	
70	Section I - (i) 275kV cable trenching works connecting the 275kV Switching	232 days	Sun 15/9/19	Fri 15/5/20	May Jun
	Station Extension and L11 MSB at Area E9 (B)	<u></u>	<u></u>		
71	Obtain Permit to work & Road close permit	0 days	Sun 15/9/19	Sun 15/9/19	9
2	Excavation & construction new cable trench	160 days	Mon 16/9/19		
3	Re-excavate cable trench for cable laying	72 days	Thu 5/3/20	Fri 15/5/20	
4	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	275 days	Wed 1/4/20		
'5	Obtain Permit to work & Road close permit	0 days	Wed 1/4/20		
6	Re-excavate & new cable trench for cable laying	275 days	Wed 1/4/20		
7	Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of	426 days	Sun 1/3/20		1 JC.30 Apr '21
	new LOT 3 & 4		· · · · · · · · · · · · · · · · · · ·		
8	Obtain permit to work & Road close permit	0 days	Sun 1/3/20	Sun 1/3/20	0
9	Erection of Hoarding	21 days	Sun 1/3/20	Sat 21/3/20	
)	Removal of existing cover & structural steel	30 days	Sun 22/3/20		
	Demolish of existing bund wall and staircases	45 days	Tue 21/4/20		
	Demolish of existing slab & foundation	60 days	Fri 5/6/20	Mon 3/8/20	
	Consent for new work	30 days	Tue 4/8/20	Wed 2/9/20	
+	Construction of new bund wall and foundation	100 days	Thu 3/9/20		
+	Construction of new oil separator	80 days	Wed 23/9/20		
	Construct underground drainage and surface channel	40 days	Sat 12/12/20		
	Construction on-grade slab	60 days	Thu 21/1/21		
7 }	Removal of hoarding and ground reinstatement	40 days	Mon 22/3/21		
)	Section K1 - External works at Area 15 (E) and 15(F)	365 days	Mon 1/6/20		
)	Removal of surcharge	30 days	Mon 1/6/20		
	Construct new drainage and utilities work	200 days	Wed 1/7/20		
2	Road & Paving	135 days	Sun 17/1/21		
	Section K2 - Removal of Southern Bund and External Works at Area D5, D6	365 days	Mon 1/6/20		
	and D7	<u></u>			
ł	Demolition work	30 days	Mon 1/6/20	Tue 30/6/20	20
	Construct new drainage and utilities work	200 days	Wed 1/7/20		
	Road & Paving	135 days	Sun 17/1/21		
'	Section K3 - All remaining works shall be completed for reporting completion	623 days	Wed 8/1/20	Thu 30/9/21	21 pc.K3
	to BD and ready for OP inspection (PS1.4.4)				
3	Completion of remaining roof after over headcrane move in	30 days	Wed 8/1/20	Sat 15/2/20	0
9	Construction of G/F Lube Oil Tank Room (BY TDK)	61 days	Tue 6/10/20	Sat 5/12/20	0
2	Construction of wall and staircase at G/F after Condensor Move in	90 days	Mon 6/7/20		
	Construction of Durasteel Steel wall panel after IBP installation	30 days	Sun 20/9/20		
	Construction of Transformer fence wall, cladding & associated FS services	122 days		Thu 31/12/20	
3	Final restatement of road & paving around MSB & HRSG	122 days		Thu 31/12/20	
4	Installation of trench covers and gratings after plant installation	151 days	Thu 1/10/20		
5	Backfill and reinstatement after 275kV cable laying	122 days	Tue 1/6/21	Thu 30/9/21	

17-8002 Master Prog Rev 3

Task

Split Milestone 🔶

Summary 🛡

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				Appendix J	
Re	efer to	CEM	dated	26March2	2019
			Jul		

	92.98	203(143	開始日	楼7日	Construction Schedule of Unit-11
	ar to shipe a	120.3			2020年
0	Key Date	613日	19/12/16 (月)	21/12/01 (水)	2020年 9年08月 2019年09月2019年10月 2019年11月2019年11月 2019年12月 2020年01月 2020年02月2020年02月2020年03月 2020年04月2020年05月 2020年05月 2020年06月2020年07月 2020年05月 2020年06月 2020年06月 2020年06月 2020年10月 2020年10月 2020年11月2020年12月2021年02月2021年02月2021年03月 2021年03月 2021年03月 2021年03月 2021年03月 2021年03月 2021年03月 2021年03月 2021年03月 2021年04月2021年05月 202 中旬下旬上前中旬下旬日
and .	H O HRSG Foundation	1日	19/12/16(月)	19/12/16(月)	Ney, Uato
	H/O OHC Installation	1日	19/12/16(月)	19/12/16(月)	H/O HRSG Foundation + 12/16
	H/O HRSG Exhaust duct	1日	20/02/01 (土)	20/02/01 (土)	H/O OHC Installation 🔶 12/16
	H O Condenser foundation	1日	20/03/09(月)	20/03/09(月)	H/O HR\$G Exhaust duct 🗢 02/01
	H/O Aux_equipment foundation of HRSG	1日	20/03/16(月)	20/03/16 (月)	H/O Condenser foundation + 03/09
	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 IN 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
000	PY cast the concrete of G_F	20日	20/06/08(月)	20/06/30 (火)	Dismanting the Towler Crane (PY) +-06/22
	MSB Full access	1日	20/07/01 (水)	20/07/01 (水)	PY cast the concrete of G/F
EE .	H O Foundation around CCW-Cooler	1日	20/05/16 (±)	20/05/16 (土)	MSB Full access 🍝 07/01
	H/O Foundation around Transformer	1日	20/07/01 (水)	20/07/01 (水)	H/O Foundation around CCW-Cooler 🗢 (05/16
	O/B GT & GEN	10日	20/09/01 (火)	20/09/11 (金)	H/O Foundation around Transformer 🔶 07/01
	Power Receiving	1日	21/02/01 (月)	21/02/01 (月)	O/EI GT & GEN- 09/01
	Hydrostatic test (Can't promise)	1日	21/05/31 (月)	21/05/31 (月)	Power Receiving
(COR	Receiving Lube Oil	1日	21/05/24(月)	21/05/24(月)	WTDK shallenge to move "hydro" Hydrostatio test (Can't promise) © 05/3
	GT First Firing	1日	21/11/01(月)	21/11/01(月)	Receiving Lube Oi 🛫 05/24
	Synchronization	1日	21/12/01 (水)	21/12/01 (水)	
н	HRSG	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)	Make the condition for construction
7	Center line marking	3日	19/12/18 (水)	19/12/20 (金)	
	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 Packer setting
1	Lay down Pipes under HRSG	4日	20/01/09 (木)	20/01/13(月)	Lay down Pipes under HRSG
	Unloading Short legs and Bottom casing	1日	20/01/04 (土)	20/01/06(月)	
-	Short legs setting	9日	20/01/09 (木)	20/01/18(土)	Short logs setting
	Prepare for installing Bottom casing	3日	20/01/16(木)	20/01/20(月)	Prepare for installing Bottom casing
	Lifting and installing Bottom casing	6日	20/01/20(月)	20/01/29 (水)	
	Welding Short legs and Bottom casing	35日	20/01/30(木) :	20/03/10 (火)	Lifting and installing Bettom casing
-	Setting and welding Brace gusset	35日	20/01/30 (木) :	20/03/10 (火)	Welding Short legs and Bottom casing
	Setting and welding SCR bottom frame	35日	20/01/30(木) 2	20/03/10 (火)	Setting and welding Brace guiset
	Setting FL+2 5m floor structure	17日	20/01/30 (木) 2	20/02/18 (火)	Setting FL+2 Sm floor structure
1	Insulation and lagging on Bottom casing	17日	20/02/17(月) 2	20/03/06 (金)	
	Unloading Side casing and Top Casing #1	2日	20/02/08(土) 2	20/02/10(月)	Insulation and lagging on Bottom casing
	Lifting and installing Side casing	42日	20/06/23 (火) 2	20/08/10(月)	Unloading Side casing and Top Casing #1
	Lifting and installing Top casing	42日	20/06/30(火) 2	20/08/17(月)	Lifting and installing Side loasing-
1	Lifting and installing SCR	2日	20/07/08 (水) 2	20/07/09 (木)	Lifting and installing Top cashg
1	Lifting and installing AIG	2日	20/08/20(木) 2	20/08/21(金)	Lifting and installing SOF01
-	Unloading Side casing and Top Casing #2	1日	20/07/10(金) 2	20/07/10 (金)	Lifting and installing Aig
	Installation of piping, header, support, EXP inside HRSG	40日	20/07/16(木) 2	20/08/31(月)	Unloading Side caling and Tep Caling #24
-	Lifting and installing HRSG Inlet duct	2日	20/08/25(火) 2	20/08/26 (水)	Initalition of piping, header, support, EXP inside HISG)
	Setting FL+6/10m floor structure (Left side of HRSG)	55日	20/05/15(金) 2	20/07/17 (金)	Uförg and installing HRSO inlet duct
-	Setting FL+29m floor structure (The part of over hang)	00.51	20/08/22(土) 2	0 (00 (02 (+)	Setting FL=6/10m floor structure (Left side of HRSO)

1. Change the starting date of installation below

Installation HRSG was re-started from 23rd-Jun

Installation Exhaust duct was re-started from15st-May

2. To consider that structure of Takasago portion is delayed

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

21年06月2021年07月202 冲旬下旬上旬中旬下旬上旬	1年08月 2021年09月 中旬下旬上旬中旬下旬上	2021年10月 2021年 10中旬下旬上旬中旬	2 11月2021年12月2 下旬上旬中旬下旬上	022年 022年01月 2022年025 旬中旬下旬上旬中旬下旬
			12/01	
	1111	1111		11 I N D
	1111			
11111				
up to 31st-May-2021	1111			
31				
	GT Fir	st Firing + 11/01-		
		Synchronization	n * 12/01	-
			111	•
	10.01			
1111				
11111				
H H U L				

9	72.0名	NUM	開始日 終了	Construction Schedule of Unit-11	
				2020年 2020年 2021年 2021年	
	North side stair frame & EV structure	90日	20/08/22(土) 20/1		021年10月 20 旬中旬下旬上
	Setting FL+29m floor structure (Above tube bundle)	30日	20/10/01(木) 20/1		
	South side stair frame	60日	21/02/25(木) 21/0	(rk)	
	Setting roof structure (Including deferable structure)	120日	20/12/04(金) 21/0	(木)	
		10日	20/09/04(金) 20/0	(水) Setting roof structure (Including deferable structure)	
	Unloading Tube bundle #1 (9set)	3日	20/09/16(水) 20/0	(金) Prepare unloading Tube bunch	1.1
	Prepare installing Tube bundle #1 (9set)	5日	20/09/19(土) 20/0	Un/pading Tube bundle #1 (9set)計	
	Period for the installation of Power Train	0日	20/09/24 (木) 20/0	(木) Prepare installing Tube bundle # (9aet) 董	
	Lifting and installing Tube bundle #1 (9set)	12日	20/09/25(金) 20/1	(木)	
	Unloading Tube bundle #2 (6set)	2日	20/10/10(土) 20/1	(月)	
	Prepare installing Tube bundle #2 (6set)	4日	20/10/13 (火) 20/1		
	Lifting and installing Tube bundle #2 (6set)	6日	20/10/17(土) 20/1	(月) Prepare installing Tube bundle #2 (6set)-	
	Lifting Down commer piping (pre-assembling)	8日	20/09/01 (火) 20/0		
	Lifting and setting HP-Drum	1日	20/10/14(水) 20/1		
	Lifting and setting IP-Drum	1日	20/10/31(土) 20/1		
	Lifting and setting LP-Drum	1日	20/11/04 (水) 20/1	(%)	
	Lifting and installing HRSG Outlet duct	2日	20/11/18 (水) 20/1		
	Adjusting HDR level (HP)	10日	20/11/05 (木) 20/1		
	Adjusting HDR level (IP & LP)	15日	20/11/17 (火) 20/1	(末) Adjusting HDR level (HP)	
	Lifting and setting the silencer of HRSG	5日	21/04/23(金) 21/0	(%)	
,	Assembly accessory inside HRSG	180日	21/03/19(金) 21/1	(末)	
	Excavation the foundation of UTAC (By Civil)	21日	21/02/01(月) 21/03	(rk) Assembly accessory inside HRSC	
	Urea to Ammonia conversion system	90 El	21/02/25(木) 21/0	(%) Excavation the foundation of UTAC (By Civil)	
	CO2 Fire fighting	50日	21/04/13(火) 21/00	(%)	
,	Installation the SCR catalyst	20日	22/01/06(木) 22/0	(金)	
					Installa
	Lifting and hang Pipes (Left side of HRSG)	80日	20/07/16 (木) 20/10		
F	Fitting Pipes (Inside of HRSG / HP)	90日	20/11/17 (火) 21/03		
Fi	itting Pipes (Inside of HRSG / IP,LP)	90日	20/12/04(金) 21/03		
ł	Lifting FL+29m and roof structure	40日	20/12/04(金) 21/01		111
	Lifting and hang Pipes (Upper HRSG)	60日	20/12/04(金) 21/02		
	Fitting and welding Pipes in range of Hydrostatic	150日	20/11/17 (火) 21/05		
	Fitting and welding Pipes out range of Hydrostatic	160日	21/03/02(火) 21/05		
				Eithing and welding Pipes out range of Hydrostatic	
	Prepare for preassemble Side and Top Casing 1	10日	20/01/24 (金) 20/02	(金) Prepare for preassemble Side and Top Casing	
	Preassembly Side casing (2set)	30日	20/02/11(火) 20/03		
	Preassembly Top casing (HP and IP)	30日	20/02/11(火) 20/03		
	Prepare for preassemble SCR 3	3日	20/03/20(金) 20/03		
	Preassembly SCR 1	12日	20/03/24 (火) 20/04		
	Prepare for preassemble AIG 3	3日	20/07/27(月) 20/07		
	Preassembly AIG	18日	20/07/30(木) 20/08	Prepare for preasserbile AIG III	
	Prepare for preassemble HRSG Inlet duct	4日	20/06/20(±) 20/06		
	Preassembly HRSG Inlet duct 5	52日	20/06/25 (木) 20/08		
	Prepare for preassembly HRSG Outlet duct 4	1日	20/09/28(月) 20/10		
	Preassembly HRSG Outlet duct 4	10日	20/10/02(金) 20/11	Prepare for preassentibly HRSG Dutlet duct 邮 水)	

T	タスク名	利用加	開始日	終了日					Constru	iction Sche	dule of Un	IT-11										
	2079	103 (m)	Life PEL				2020年								20214							
)	Preassembly FL+29m floor structure #1	18,8	20/08/01(±)	9年08月 中旬下旬 20/08/22(土)	月2019年09月2019年10月 0上旬中旬下旬上旬中旬下旬上	2019年11月2019年12 上旬中旬下旬上旬中旬下	月 2020年01月 2020年0 旬上旬中旬下旬上旬中旬下	2月2020年03月 2 有上旬中旬下旬上	2020年04月2020年05 自中旬下旬上旬中旬下	5月 2020年06月 20 5 旬上旬中旬下旬上1	20年07月 2020年0 时前下旬上旬中旬1	8月 2020年09月1 F 旬上旬中旬下旬上	020年10月 2020 旬中旬下旬上旬中	年11月2020年12 旬下旬上旬中旬下	2月 2021年01月 旬上旬中旬下旬上	2021年02月202 ,每中旬下旬上旬	年03月 2021年(同下旬上旬中旬	14月2021年05月 下旬上旬中旬下旬	2021年06月3 上旬中旬下旬上	2021年07月2 旬中旬下旬上	2021年08月 20 前中旬下旬上旬	21年09月20 护矿F创上
-			and the state of a state of						and the second se	FL+29m floor stru		•		111								
	HRSG Exhaust duct	445日	20/02/01 (土)	21/07/02 (金)																		
	Make the condition for construction	5日		20/02/06 (木)		HRSG I	Exhaust duct												-		0.0	
	Center line marking	5日	20/02/01 (土)			Make the condition for	construction								1						111	
	Chipping	20日		20/02/29(土)		Center	r line markin										1111					
	Packer setting	20日		20/03/12 (木)			Chipping											1.14				
HH.	Building structure in the part of ED4	25日		20/06/12(金)			Packer setting															
	Building structure in the part of ED5,6 (By 2nd			20/07/11(±)			Build	ing structure in t	the part of ED4	-												
	tier) Grouting structure for exhaust duct (Nearly stack			20/06/24 (水)			Bu	lding structure in	n the part of ED5,6 (I	By 2nd tier)							1111					
-	Receiving Exhaust duct ED4	2日	20/05/01(金)				Groutin	g structure for e	exhaust duct (Nearly	stack) 🦰											111	
		30日		20/08/15(±)			Re	ceiving Exhaust o	duct ED4											1.1	111	
	Preassembling other duct in ED4	40日		20/06/18 (木)				Liftin	ng and assembly the	Elbow duct in ED	******											
		5日	20/08/17(月)				Preas	sembling other du	luct in ED4	amm												
		2日		20/06/16(火)					Lifting	; and connecting t	he duat of ED4									111		
	Preasembling ED5, 6	70日	20/06/15(月)					Rec	ceiving Exhaust duct	ED5,6-1										1.1		
	Building structure in the part of ED5,6 (Above 2nd		20/08/22(土)						Preasembling	ED5. 6)111111	mmmm	an-										
	tier)	7日	20/10/22(上)						Building structure in	the part of EDS.6	(Abave 2nd tier)											
	Lifting and connecting the duct of ED5,6	7日	20/10/20(火)							1	Period for the instal	lation of tube but	ides 🎽									
	Building structure in the part of ED1-3	55日	20/11/24(火)								Lifting and cor	necting the duct	of ED5,6	4								
	Grouting structure for exhaust duct (Horizontal)		20/11/24 (火) 21/02/16 (火)								82	ilding atructure in	the part of ED1-	3/100						111		
		2日	20/06/30(火)										Grouting str	ucture for exhau	ust duct (Horizon	tal) 📩						
	Preassembling ED1-3	120日	20/09/04(金)		1.1.1.1.1				Receiving Exhaust	t dunt ED1-3							1111			111		
											Preassembling ED1	•• Timm	unnunn	unnun	mmn							
	ting and connecting the duct of ED1-3 caffolding, welding, insulation	25日 140日	21/02/13(土) 21/01/21(木)										Lifting	and connecting	the duct of EDI-	a)						
		140日	21/01/21(木)										Scot	folding, welding, i	nsulation)							
		, 3 H	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								Period	of crane for vert	cal duct									
Ωv	er Head Crane	75日	19/12/14 (土)	20/03/13(金)																		
		1日	19/12/14(土)		Ove	er Hoad Crane 🛡																
		16日	19/12/17(火)		Check the location	on of installation																
		5日	19/12/14(土)		Lifting and setting	the rail for OHC																
		2日	19/12/20(金)		Prepare for preas	ssembling OHC																
		2日	19/12/23(月)		Unload	ding OHC material																
		4日	20/01/09(木)			Preassembly OHC																
		4日	20/01/14 (火)		Lifting and	d setting Aux. OHC Gar	ter															
		20日	20/01/18(土)		Lifting and	id setting Main. OHC G	arter													111		
		25日	20/02/14(金)		6	Installing electrical equ	ipment															
			, v=, , + (ut/				Commissioning															
	Condenser	185日	20/03/03 (火)	20/10/02 (金)																		
		2日	20/03/03(尺)				Condenser	-				-										
		2日	20/03/09(八)				Center line mark	ing												111		
	=	6日	20/03/11(水)				Chip	ping														
		4日 28日	20/03/18(次)				Setting packer and bas	e plate														
	condenser	28日	20/03/11(水)		Setting tem	nporary rail and SARLIF	FT for installation conde	iser														
		15日	20/04/03 (金) 20/03/20 (金)				(Load test f	or SARLIFT)														
	Assembling the scattlight around skirt	1212	20/03/20(置)	20/04/00([])		Assem	bling the scafolding arou	nd skirt						1.1								

	92.08	Mina	開始日	转了日	Construction Schedule of Unit-11	
		- and	and the second s	22	2020年 2020年1月2019年10月2019年11月2019年11月2019年11月2020年02月2020年03月2020年03月2020年04月2020年05月2020年05月2020年05月2020年0月2020年0月2020年0月2020年05月2019年11月2020年05月2020年15月2010年15月2020年15月2020年15月2020年15月2020年15月2020年15月2020年15月2020年15月2020年15月2020年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月2010年15月10月11月11月11月11月11月11月11月11月11月11月11月11月	
36	Preparation the lifting tool for the skirt	2日	20/04/05(日)	非位 20/04/06(月)	2020年 2021年 2021年 2021年 2020年0月 2020年0月 2020年10月 2020年11月 2020年12月 2021年0月 2021年0日 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年11月 2021年11月 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年0日 2021年11月 2021年	2021年12月 止何中何下何。
37 🔜	[Civil]Excavate the access road	30日	20/03/03 (火)	20/04/05(日)	Preparation the lifting tool for the skirt IN [Civil]Excavate the access road	
8	Assembly the Unit carrier	4日	20/04/03(金)	20/04/06(月)		
39	Assembly the 750tonA/C	4日	20/04/03 (金)	20/04/06(月)	Assembly the Unit carrier	
10 m	Delivery date of condenser	2日	20/04/01 (水)	20/04/02 (木)	Assembly the 250tonA/C.	
41	Remove packing material	3日	20/04/04 (±)	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	
15	Assembling and welding skirt	8日	20/04/20(月)	20/04/28 (火)	Fit up condensin skirt	
16	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)	Remove rill for cohdenser skirt.	
8	Installation Condenser shell of upper	1日	20/04/18 (土)	20/04/18 (土)	Installation Condenser shell of lower.	
9	Disassembly the 750tonA/C	1日	20/04/18 (土)	20/04/18(土)	Installation Condenser shell of upper 1	
0	Dismantling SARLIFT and temporary rail	15日	20/04/20(月)	20/05/06(水)	Disassembly the 750tonA/O	
H.	Assembling the scafolding around condenser shel	15日	20/04/27 (月)	20/05/01(金)	Dismantling SAFLIFT and tempbrary rail	
12	Welding Condenser shell (outside / 1 layer)	5日	20/05/02 (土)	20/05/07 (木)	Assembling the scafelding around condenser shell	
3	Fit up condenser skirt to condenser shell	3日	20/05/08 (金)	20/05/11(月)	Walding Condenser shell (outside / 1 layer)	
4	Installation the monorail of South side	20日	20/05/12 (火)		Fit up condenser skit to condenser shell	
	Hand over around condenser to civil working		20/06/08(月)		Installation the monoral of South side	
1	Installation the condenser water box of South sid		20/07/13(月)		Hand ever around condenser to civil working	
-	Installation the CW pipe	45日	20/07/21 (火)		Installation the condenser water box of South side 💼	
	Assembling Exp.J	1日	20/09/21(月)		Installation the GW pipe	
9	Welding Exp J	10日	20/09/22(火)		Assembling Exp.J h	
-					Welding Exp. J 🚋	
	BT/ST/Generator	535日	20/06/02 (火)	2/02/15 (火)		
	Remove templates	14日	20/06/02 (火)		GT/ST/Generator	
	Center line marking	5日	20/06/18 (木)		Remove templates	
4	Chipping	10日	20/06/24 (7k)		Center line matking	
	Packer setting	15日	20/07/06(月)		Chipping	
1	Setting the base plate	7日	20/07/23 (木)		Packer setting	
	Setting the bearing case	7日	20/07/31(金) 2		Setting the base plate 🎽	
3	Lay down pipes under GT	1日	20/08/08(土) 2		Setting the boaring case 🍎	
1	Lay down pipes under ST	3日	20/08/08(王) 20/08/10(月) 2		Lay down pipes under GT	
ī	IP/LP-MSV Lifting and setting				Lay down pipes under ST 🛣	
	Lifting and hanging EB01	5日	20/08/05 (水) 2 20/07/30 (木) 2		IP/LP-MSV Lifting and setting 🐋	
		1日			Lifting and hanging EB01 H	
2		21日	20/08/03(月) 2		Setting the Gantry system for GT-	
4		2日	20/08/27(木) 2		Load tein for Gantry system a	
		2日	20/09/01(火) 2		GT Q/B (with Gamtry) 🐱 B9/02	
	Setting the Gantry orane for GEN	1日	20/09/03(木) 2		Setting the Gentry grane for GEN T	
		2日	20/09/03(木) 2		GEN D/B (with Gartay) 🗸 89/04	
7		2日	20/09/05(土) 2		ST Lower casing O/B (with OH)	
3		15日	20/09/08 (火) 2		Disminuting the Ganty system	111
9		31日	20/10/01(木) 2		Lifting and petting ST	
)	ST Rotor	1日	20/10/30(金) 2	0/10/30(金)	V-ST Poter94	

la la contra con	<i>by</i>	NOPE	WHAT P	Interne D	Construction Schedule of Unit-11
92.0	-0-	利用	開始日	終了日	2020.0
B1 HF	P-MSV lifting and setting	5日	20/10/11 (+)	20/11/05 (未)	2020年 9年08月2019年10月2019年10月2019年11月2019年11月2019年12月2020年01月2020年05月2020年03月2020年05月2020年05月2020年05月2020年05月2020年05月2020年10月2020年11月2020年11月2020年11月2021年01日1月2021年01月2021年01日1月2021年01日1月2021年01日1月2021年01日1月2021年01日1月2021年01日1月2021年01日1月1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1
	esembly ST	51日		21/01/04(月)	HP-MSV lifting and setting
	Upper Casing	1日		20/12/29 (火)	Assembly ST-
	rst alignment of GT and GEN	25日			
	f enclosure (Lower)			20/10/12(月) 20/11/23(月)	First; alignment of QT and DEN
		20日			GT enclosure (Lower)
	sembly piping around GT	120日		21/03/30 (火)	Assembly piping around GT
	sembly slipring of GEN	28日		20/12/12 (土)	Assembly dipring of GEN
	al alignment	20日		21/01/27 (水)	Final alignment
	sembly 3S clutch	15日	21/01/28(木)	21/02/13(土)	Assembly 3S chitch
) Joi	int coupling	10日	21/02/15(月)	21/02/25 (木)	Joint coupling 🏊
Ins	tallation GT enclosure	80日	20/12/19(土)	21/03/22(月)	Installation, GT enclosure
2 Inst	tallation ST enclosure	80日	21/02/26 (金)	21/05/29〈土〉	Installation ST enclosure
3 Blo	owing out	10日	21/11/10 (水)	21/11/20(土)	
4 Rer	move temporary strainer	20日	22/01/24(月)	22/02/15 (火)	
GT Air	r inlet	394日	20/07/06(月)	21/10/08 (金)	GT Air inlet
Cer	nter line marking	2日	20/08/13 (木)	20/08/15(土)	Contect line mathing Bt
Set	tting the base plate	10日	20/08/15(土)	20/08/27 (木)	
Pre Pre	eassembly the Air inlet duct	60日	20/07/06(月)	20/09/12(土)	Setting the base plate*
Lifti	ing and installation the Air inlet duct (Vertical)	25日	20/08/27(木)	20/09/24 (木)	Pressembly the Air inlet duct
Wel	lding Air inlet duct (Vertical)	50日	20/09/08 (火)	20/11/04 (水)	Lifting and installation the Air inlet duct (Vertical)
Lift	ing and installation the Air inlet filter	37日	20/10/07 (水)	20/11/18 (水)	Welding Air inlet duct (Verbesi)
Wel	lding Air inlet filter	70日	20/10/19(月)	21/01/07 (木)	Lifting and installation the Air Inlet Filter
Lifti	ing and assembly the Air inlet manifold	2日	20/11/06(金)	20/11/07 (土)	Weißing Air inlet Sitter
Lifti	ing and installation the Air inlet duct (Horizontal)	8日	20/11/09(月)	20/11/17 (火)	Lifting and desembly the Air infet manifold the
Aut	omatic roller shutter	2日	20/11/18 (水)	20/11/19(木)	Lifting and installation the Air inlet duct (Horizonta)) 🛲
Wel	ding Air inlet duct (Horizontal)	25日	20/11/18 (水)	20/12/16 (水)	Automatic roller shutter
Filte	er element installation	5日	21/10/02(土)	21/10/08 (金)	Weitsing Air inlet dupt (Horizontal)
-					
	ry Equipment (0/8)	353日?	20/04/28 (火)	21/06/12(+)	
	around Power Train & North west of MSB	143日?	20/06/09(火)		Auxiliary Equipment (Q/B) 🗣
	Chipping and pakker setting	10日	20/06/09(火)		
	12 cooler	2日	20/07/31(金)		Chipping and pakker setting 🚃
	12 cooler Platform under the GEN				H2 cooler
		5日	20/08/03(月)		Platform under the GEN 🚡
	Femp hanging Main Steam Piping	25日	20/07/30(木)		Temp hanging Main Steam Piping
	Sampling lack	2日	20/11/03 (火)		Sampling Lack M
	ight oil drain unit	2日	20/11/05(木)		Light dil drain unit 196
	ST purge air compressor	2日	20/11/07 (土)		GT purge an compresson the
	aT purge are reservoir	2日	20/11/10(火)		GT purge are reserver M
L	ight oil flow divider unit & platform	2日	20/11/12 (木)	20/11/13 (金)	Light oil flow divider unit & platform)
G	T Purge air unit	2日	20/11/12 (木)	20/11/13 (金)	QT, Purze air unit
	uel gas unit	2日	20/11/20(金)	20/11/21(土)	Fuel mis unit
2 MS	SB Inside North-West	125日?	20/05/05 (火)	20/09/26(土)	
С	hipping and pakker setting	10日	20/05/05 (火)	20/05/16(土)	Chipping and pakker setting

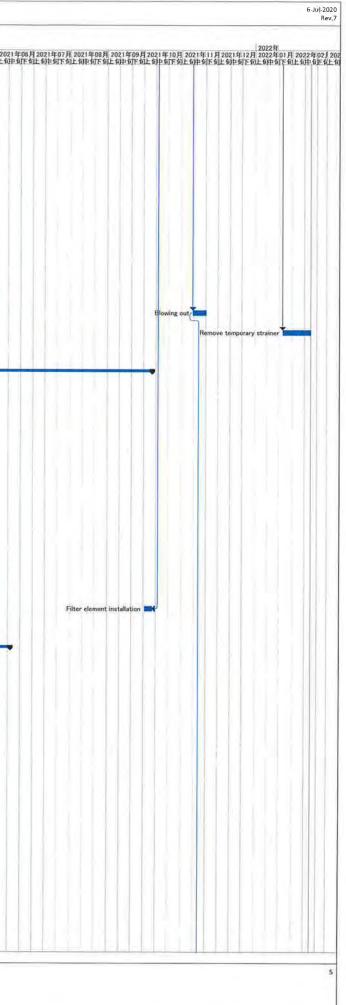
To consider the delay of H/O date from PDC
 Add the schedule of the electric work and the replacement the gantry crane for CWP

1. Change the starting date of installation below

Installation HRSG was re-started from 23rd-Jun

Installation Exhaust duct was re-started from15st-May

2. To consider that structure of Takasago portion is delayed



3	2.0名	101/01	開始日	转了日			_					_	2011511	iction Scl	incutic U	. one i								_		-										6-
0				99	08月 2019年	∓09月2019年	10月 2019	年11月201	9年12月	2020年 2020年01日	2020年62	F 20204F	13月 2020年04月 2020年0 下旬上旬中旬下旬上旬中旬	日 2020年08日	20204078	020年08日 20	20年00月~	201101010	12045118	202010000	2021年	Banarte	0919091	teos Bi arr	1 de na Fil en	ni droc D	000.000	I noot for	10 40314	en El ano	and a second				2022年	-
0	Preparation hauling equipment	4日	20/05/28 (木)	中的 20/06/02(火)	下前上前中旬	矿如上印物	可下输上输出	句下句上句	中旬下旬上	前中旬下旬	上旬中旬下旬				上领中旬下旬上	创产每下旬上旬	中旬下旬上	中旬下旬上	时前的	2020年12月 :旬中旬下旬	上旬中旬	F何上旬中旬	021 2021 下有上句中	年03月203 何下旬上旬	1年04月20 中旬下旬上1	21年05月 中旬下旬」	2021年06, 11年旬下1	月2021年0 司上有中旬日	月 2021年 旬上旬中旬	18月 2021年 下旬上旬中	409月2021 何下旬上旬排	年10月203 中旬下旬上年	21年11月25 市有下旬上	021年12月 何中旬下旬	2022年01 上旬中旬下	月,20225 旬上旬中
	Condenser water box	3日	20/06/02 (火)	20/06/04 (木)								Fret	saration hauling equipmen	1																				111		
	Closed cooling water pump	2日	20/06/05(金)	20/06/06 (土)				11					Condenser water I																							
	Condenser vacuum pump	2日	20/06/08(月)	20/06/09 (火)									Closed cooling water p											11							111					
	Dismantling hauling equipment	2日	20/06/10 (水)	20/06/11 (木)									Condenser vacuum																							
	ST blow down tank	1日	20/06/10 (水)	20/06/10 (水)									Dismantling hauling equi																							
	ST Blow down tank structure	1日	20/06/11 (木)	20/06/11(木)				111					ST blow dow																							
	GT casing cooling fan	1日	20/06/12(金)	20/06/12 (金)						11		11	ST Blow down tank str											111												
	GT compressor blade washing device	1日	20/06/12(金)	20/06/12(金)				11				CT.	GT casing cool																							
	Building MSB North streuture	40日	20/06/13(土)	20/07/29 (水)								61 6	ompressor blade washing											111												
	Pre-assembly structure for Air inlet duct access	30日	20/08/01 (土)	20/09/04 (金)									Building MSB North st											111										111		
	Building structure for Air inlet duct access	2日	20/09/25(金)	20/09/26(土)									Pre-assembly structu				+										11				111			111		
	Closed cooling water stand pipe	2日	20/09/25(金)	20/09/26(土)										bulong i	structure for A				110															111		
	ST Blowdown pit sump pump	2日	20/06/10 (水)	20/06/11(木)									OT DI LA DI		Glosed Code	ng water stand	biba a																			
					111								ST Blowdown pit sump	oump -											1											
	6 MSB Inside South-West	163日?	20/05/16(土)	20/11/21(土)																														111		
	Chipping and pakker setting	10日	20/05/16(土)	20/05/27 (水)																																
	Condensate extraction pump	2日	20/06/15(月)	20/06/16 (火)				111				Chippin	g and pakker setting	1.1.1																				111		
	CEP access stair	1日	20/06/15(月)	20/06/15(月)	0117			f I I					Condensate extractio																							
8	Building MSB South strouture	25日	20/07/01 (水)	20/07/29 (<i>7</i> K)									CEP acce											111										111		
	Gland condenser	18	20/07/07 (火)	20/07/07 (火)									Building MSB S																							
	Plant and Instrument air receiver	2日	20/07/27 (月)	20/07/28 (火)										lland condenses	1																					
	Trip valve unit	1日	20/09/28(月)	20/09/28(月)									Plant an	Instrument air	roceiver R															11						
	Control oil unit	1日	20/09/28(月)	20/09/28(月)													a unit																	112		
	Seal oil unit	2日	20/07/31 (金)	20/08/01(土)						11					eal oil unit	ventre) d	a unit 1										11							111		
3	Plant air compressor	2日	20/11/18 (7K)	20/11/19(木)										3	er on anat																			111		
	Instrument air dryer	2日	20/11/20 (金)	20/11/21 (土)	111												Prism's	air compress	11															117		
	CEP pit sump pump	2日	20/06/17 (水)	20/06/18 (木)						111			CEP pit sur				an su	ument av do	Yac			(I .								11	111					
	Condenser hotwell pit sump pump	2日	20/06/19 (金)	20/06/20 (土)									Condenser hotwell pit au																							
	7 Lube oil room	144日?	20/05/28 (木)	20/11/11 (水)																										11						
	Chipping and pakker setting	10日	20/05/28 (木)																																	
	Disassemble structure	1日	20/07/31 (金)									Chi	pping and pakker setting																							
	Lube oil reservoir	1日	20/08/01 (土)	20/08/01 (±)									1.14	Disassemble	structure M																					
	Assemble sturcture	1日	20/08/01(土)	20/08/01 (±)										Lube e	reservoir-1																			111		
	Open floor	1日	20/09/28(月)											Assemble	sturqture																					
	Lube oil filter with sturcture	2日	20/09/29 (火)	20/09/30(水)													×					111														
	Lube oil cooler	1日	20/09/29 (火)	20/09/29 (火)											Lube oil	filter with stu	cture														1					
	JOP for GEN	2日	20/10/01 (木)											111		Lubeloii k	oolerik																			
	JOP for ST	2日	20/10/01 (木)													JOP fo	r GEN																			
	Lube oil purifier unit	2日	20/10/01 (木)													JOP	for ST																			
	Lube oil transfer pump	2日	20/10/01 (木)													Lube oil purifi	tr unit																			
	Lube oil accumulator	1日	20/10/01 (木)												L	ibe ol travisfer	brink 1								11									111		
	Close floor	1日	20/10/02 (金)												L	ube cil accum	lator						11		-	-										
	TCA filter support		20/11/02(月)													Clos	e floor T																			
																	TCA filter	support									1.			11/	6.1.1.					

47	くク名	10100	開始日	終了日	Construction Schedule of Unit-11
					2020年 2020年 2020年
0	TCA filter	18	20/11/11 (水)	20/11/11 (水)	2020年 9年08月 2019年10月 2019年10月 2019年11月 2019年11月 2020年01月 2020年05月 2020年03月 2020年03月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年05月 2020年10月 2020年10月 2021年05月 2021年03月 2021年05月 2021年11月 2021年11月 2021年11月 2021年05月 2021年11月 2021年11月 2021年11月 2021年05月 2021年11月 2021年12月 2021年12月 2021年05月 2021年11月 2021年11月 2021年05月 2021年11月 2021年05月 2021年11月 2021年05月 2021年11月 2021年05月 2021年11月 2021年05月 2021年05月 2021年05月 2021年11月 2021年05月 2021年11月 2021年05月 2021年11月 2021年11日 2011年11日 2011年11日 2011年11日 2011年11日 2011年11日 2011年11日 2011年11日 2011年11日
					TGA filter l
1	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)	
BIB	Light Oil main pump unit	2日	20/05/15 (金)	20/05/16 (土)	Chipping and polyker setting
	GT light oil last chance filter	2日	20/05/15(金)	20/05/16 (土)	Light (Oil main pump unit 1
	GT light oil drain tank unit	2日	20/06/01(月)	20/06/02 (火)	OT light oi last chance filter
	Pipe rack from L10 to L11 (except around FR02)	45日	20/06/08(月)	20/07/29 (水)	D'i 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
	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)		Lifting and installation EBG298.
	Pipe rack from L10 to L11 (Above EB02)	30日	20/09/01 (火)		Sound proof around EE02
	GT enclosure ventilation fan	2日	20/10/06 (火)		Pipe ruck from L1D/te L11 (Above EB02)
(111)	Oil mist separator unit	2日	20/10/08(木)		GT enclosure ventilation fan 👗
	Oily drain pit sump pump	4日	20/05/18(月)		Oil muit apparator unit 🥈
	Chemical drain pit sump pump	4日	20/05/22(金)		Oily thain pit sump pump 🚡
	energy and the proving points	1H	20/00/22 (10/	20/00/20 (X/	Chemical drain pit; sump pump 🎽
1	0 North of HRSG	216日?	20/05/06 (<i>7</i> K)	21/01/12 (北)	
	HRSG Blow down tank	2日			
	Chemical dosing system		20/05/06 (水)		MRSG-Blow down tank
	GT water injection system	2日	20/05/12(火)		Chemical dasing system
		2日	20/05/18(月)		GT water Injection system T
	Lower Fuel gas heater	2日	20/06/03 (水)		Lower Fuel gas heater.
_	Support structure for FGH	3日	20/06/05(金)		Support structure for FGH 🞽
(11)	Upper Fuel gas Heater	2日	20/06/20(土)		Upper Fuel gas Hoater
	GT fuel gas flow meter	2日	20/07/30(木)		GT fuel gas flow meter Ma
	FGH Maintenance platform	15日	20/07/30(木)		FGH Maintenance platform
	FWP sun shade	30日	20/07/30(木)		FWP sun shide
	Reserved feed water tank	14日	20/06/30(火)	20/07/15 (⁊ <u>k</u>)	Reserved feed water tank
	Feed water pump	2日	20/08/01(土)	20/08/03(月)	Feed water pump
	LP-ECO Recirculation pump	2日	20/10/30(金)	20/10/31(土)	LP-ECO Recirculation pump-1
	Dry air system for HRSG	2日	20/10/30(金)	20/10/31 (土)	Ory air system for HRSOM
	HRSG Topping up pump	1日	21/01/09(土)	21/01/11(月)	HRSG Topping up pump 👪
	HRSG blowdown pit sump pump	2日	20/05/15(金)	20/05/16 (土)	HRSC blowdown pit sump pump
	HRSG Washing water sump pump	2日	21/01/11(月)	21/01/12(火)	HRSG Washing water sump pump
					wood iterating ward and built a
12	CCW cooler area	87日	20/05/15(金)	20/08/24(月)	
	Chipping and pakker setting	10日	20/05/15(金)	20/05/26 (火)	
	Civil finish casting trench at west side of CCW-C area	1日	20/06/30 (火)	20/06/30 (火)	Chipping and packer setting
	Sea water booster pump	4日	20/07/01 (水)	20/07/04 (土)	Givil finish casting trends at west side of CCW-C area h
	CW vent pump and seal water booster	4日	20/07/01 (7 <u>k</u>)	20/07/04 (土)	Sea water booster pump
	Condenser tube cleaning unit	4日	20/07/01 (水)	20/07/04 (±)	CW vent pump and, seal water booster
	CCW cooler	4日	20/07/01 (水)	20/07/04 (土)	Condenser tube cleaning unit
	CCW cooler sun shade	20日	20/08/01 (土)	20/08/24(月)	CCW cooler

1. Change the starting date of installation below

Installation HRSG was re-started from 23rd-Jun

Installation Exhaust duct was re-started from15st-May

2. To consider that structure of Takasago portion is delayed

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

	タスク名	NED	開始目	終了日	Construction Schedule of Unit-11
					2020年 9年08月 2019年09月 2019年10月 2019年10月 2019年11月 2019年11月 2020年01月 2020年03月 2020年03月 2020年03月 2020年05月 2020年10月 2020年10日 2020年10月 2020年10日 2010年10日 2010年10日 2010年10日 2010年10日 2010年10日 2010年10日
	Sea water sump pump	4日	20/06/02 (火)	20/06/05 (金)	
-					Sea water sump pump
	TCA cooler	2日	20/10/28 (水)	20/10/30(金)	TCA cooler IN
	Dismantle the temporary slope at south side of HRSG	20日	21/02/01(月)	21/02/24 (水)	
T.	CO2 Fire fighting	50日	21/04/16 (金)	21/06/12(土)	Disimantle the temporary slope at south side of HRSO-ITITITIA
	UTAC system	90日	21/03/01(月)	21/06/12(土)	1002-Fire-fighting W
	Silencer at MSB roof	3日	20/10/28(水)	20/10/30 (金)	Silencer at MSB rooff
	LPS to LMX LO transfer pump for U-11	2日	20/06/08(月)	20/06/09 (火)	LPS to LMX LO transfer pump for U-11
4					
5	Sea water intake area	52日	20/08/06 (木)	20/10/05(月)	Sea waterijitako area
	Marking center line	3日	20/08/06 (木)	20/08/10(月)	Marking conter ince 🙀
	Chipping and pakker setting	7日	20/08/10(月)	20/08/18(火)	Chipping and phiker setting
3	Setting the baseplate	3日	20/08/18 (火)	20/08/21(金)	Setting the baseplate The
	Grouting	15日	20/08/21 (金)		Grouting
	Circulating water pump	10日	20/09/08(火)		Circulating water purport
	Circulating water pump outlet piping	2日	20/09/19(±)		Circulating water sump outlet piolog
	Auxiliary circulation water pump	2日	20/09/09(水)		Auxiliary circulation water numphs
3	Electro chlorination plant	3日	20/10/01 (木)		Electro cilionation plant
-	Cathodic protection	1日	20/10/05(月)		Cathoolic protection T
	Screen system	8日	20/09/22 (火)		Serpen system 🏣
	Screen wash water pump	2日	20/09/11(金)	20/09/12(土)	Screen wash water pump I
	eplacement of Gantry crane for CW pump	201	00/11/11(+/	81/01/28(土)	
-	Dismantling Old gantry crane	70日 30日	20/11/11(水) 20/11/11(水)		
(113)	Assembling New gantry crane	30日	20/12/28(月)		Disminiting Old gentry crime
	Burral and	001	20/12/20 (/)/	200000(12)	Assembling New gantry crane
<u>.</u>	1 Tranceformer area	183日	20/05/01 (金)	20/11/30(月)	
	Preparation work in the area (If applicable)	53日	20/05/01 (金)		11 Tranceformer area
-	Preparation the installation	25日	20/07/02 (木)	20/07/30 (木)	Preparation work in the area (If applicable)
-	Preparation for Generator transformer	10日	20/08/19 (水)	20/08/31 (月)	Preparation the installation at a second s
	Generator tranceformer	3日	20/08/31(月)	20/09/02 (水)	Preparation for Generator transformer
	Unit tanceformer	1日	20/08/01 (土)	20/08/01 (土)	Generator tranceformet a
	SFC tranceformer	1日	20/08/03(月)	20/08/03(月)	Unit tanceformer
	Excitation tranceformer	1日	20/08/04 (火)	20/08/04 (火)	SFC transformer
-	Auxiliary tranceformer	1日	20/08/05 (水)	20/08/05 (水)	Excitation transformer
	Trans area oily drain sump pump	2日	20/07/25 (土)	20/07/27 (月)	Autiliary transformer
	Transformer ancillaries	88日	20/08/20 (木)	20/11/30(月)	Trains area oily drain sump.pump91
					Transformer ancillaries. Know
E	ectrical work	465日?	20/05/07 (木)	21/10/30(土)	
	Generator Ancillaries	110日	20/09/25 (金)	21/01/30(土)	
	Lifting IPB Bass & Suppoets	20日	20/10/08 (木)	20/10/31 (土)	Generator, Aricillaries
	IPB Bass & Supports	50日	20/10/31 (土)	20/12/28(月)	Lifting IPB Bass & Supporter Stressort
	O/B GMCB	2日	20/08/29(土)	20/08/31(月)	D/B GMCBI
1	IPB & GMCB (IN MSB 2F)	131日	20/09/01 (火)	21/01/30(土)	
	SWGR & MCC (In MSB 1 - 3F)	79日	20/06/01(月)	20/08/31(月)	SWQR & MCC (In MSB 1 - 3F)

Installation Exhaust duct was re-started from15st-May

2. To consider that structure of Takasago portion is delayed

32.7	6	NH (M	開始目	終了日	Construction Schedule of Unit-11
		M3(n)	DALAR CI	42.1 []	2020年 2021年
UF	S Battery & Battery Charger (in MSB 4F)	7913	20/00/01/41	20/10/31(±)	2020年 9年08月2019年09月2019年11月2019年11月2019年11月2019年11月2020年01月2020年03月2020年03月2020年05月2020年05月2020年05月2020年05月2020年09月2020年09月2020年11月2020年11月2020年11月2021年01月2021年01月2021年03月202
	S & Others (in MSB 5F)	78日		20/11/30(月)	UPS, Battery & Battery Charger (in MSB 4F)
-	/DC Busduct	105日		21/01/30(土)	DOS 3 Others (in MSB 5F) International International
	SG Equipment	78日		20/10/30(金)	AC/DC Busduct
	al panel (GT/ST TB, Local control box etc)	155日		21/03/30(史)	HRSG Equipment
	al Instrument Enclosure	182日		21/03/30(火)	Lócal panel (GT/ST 78, Local control box etc)
	ole Tray & Supports (Erectrical room of MSB)				Local Instrument Enclosure)
	le Tray & Supports (MSB – HRSG)			20/11/14(土)	Cable Tray & Supports (Erectrical room of MSB)
		98日		20/12/02 (水)	Cable Tray & Supports (MSB - HRSG)
	de Tray & Supports (HRSG)	105日		21/01/30(土)	Goble Tray & Supports (HRSG) Descent and a support (HRSG) Descent and a support of the support o
	erray & Supports (Chimney)	78日		21/01/30(土)	Cabler Tray & Supports (Chimney).
	osed Cinduit (MSB)	130日		21/03/01(月)	Exposed Cinduit (MSB)
	osed Cinduit (HRSG)	103日		21/05/31(月)	Exposed Cinduit (HRSQ)
	osed Cinduit (Island equipment)	130日		21/07/01(木)	Exposed Cinduit (Island equipment)
	ling (for Power Receiving)	119日		20/12/31(木)	Cabling (for Poyer Receiving)
	ling (for MSB Local, to HRSG)	155日		21/04/30(金)	Cabling (for MSB Local; to HRSQ)
	ling (for HRSG)	132日	21/03/01(月)		Cabling (for HRSQ)-
	ling (for Island equipment)	184日	21/03/01(月)	21/09/30(木)	Cabling (for Island equipment)
	nination & Cable check	365日	20/09/01 (火)	21/10/30(土)	Termination & Cable check
	hing System	339日	20/08/01(土)	21/08/31(火)	Earthing System
	el Instrument	339日	20/09/01 (火)	21/09/30(木)	Local Instrument
	rument Piping & Tubing	262日	20/10/01 (木)	21/08/02(月)	Instrument Piping & Tubing
🖪 İnst	ument Calibration & Testing	365日	20/09/01 (火)	21/10/30(土)	Instrument Colibration & Testing
Piping		392日	20/08/10(月)	21/11/10(水)	Pione
Mai	ı Piping	244日	20/08/20 (木)	21/05/31(月)	Mait Piping
	round HRSG	150日	20/11/17(火)	21/05/10(月)	Around HRSOM
	orth side of MSB	222日	20/08/20(木)	21/05/05(水)	North side of MSB 1.1
	outh side of MSB (around gland condenser)	200日	20/09/15 (火)	21/05/05 (水)	South side of MSB (around gland condenser)
	aad piping	60日	20/11/06(金)	21/01/14(木)	Lead piping
F	reparation Hydrostatic test	30日	21/04/17(土)	21/05/22(土)	Preparation Hydrostatio test
н	ydrostatic test (Can't promise)	1日	21/05/31(月)	21/05/31(月)	*TDK-challenge to move Hydroatatic test (Can't promise)
BOF	for lube oil and cooling	247日	20/08/10(月)	21/05/24(月)	BOP for tube eit and cooling
N N	orth side of MSB (around CCW)	230日	20/08/10(月)	21/05/04 (火)	North side of MSB (ground CCW)
s s	outh side of MSB (around Lube oil reservoir)	150日	20/11/20 (金)	21/05/13(木)	South side of MSE (around Luge of reservoir)
R	aceiving Lube Oil	1日	21/05/24(月)	21/05/24(月)	
Othe	rs BOP	230日	20/12/11 (金)	21/09/04(±)	Receiving Lube Olije
0	thers BOP	230日	20/12/11 (金)	21/09/04(土)	Others BOP
Asse	mbly the blowing out piping	80日	21/08/09(月)	21/11/10 (水)	-Others BOP
					Asse
Crane		480日	19/12/16(月)	21/06/29(火)	
Reco	mbination of 500tonC/C	3日	20/01/03 (金)	20/01/06(月)	Crane 💌
Oper	ate 500tonC/C (with JIB)	10日	20/01/07 (火)	20/01/17 (金)	Recombination of 500tonC/C
Dism	antling 500tonC/C	4日	20/01/18 (土)	20/01/22 (水)	Operate 500tonC/C (with JIB)
Asse	mbly 1250C/C	10日	20/02/14 (金)	20/02/25 (火)	Dismantling 500tonC/C
Oner	ate 1250tonC/C for HRSG	222日	20/02/26 (水)	20/12/09 (%)	Assembly 1250C/C

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

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blowing out piping			4			
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	and making a			11000	Construction Schedule of Unit-11
	92.08	WHITH	開始日	終了日	
0					2020年 9年08月 2019年09月 2019年10月 2019年11月 2019年11月 2020年01月 2020年01月 2020年02月 2020年03月 2020年05月 2020年05月 2020年05月 2020年06月 2020年08月 2020年08月 2020年09月 2020年 11月 2020年11月 2021年12月 2021年03月 2020年03月 2020年13月 2020年13月 2020年13月 2020年13月 2020年13月 2020年13月 2020年13月 2020年13月 2020年13月 2021年13月 2021年14日 2020年13月 2021年14日 2021年14
405	Operate 1250tonC/C for GT Air inlet	25日	20/08/27 (木)	20/09/24 (木)	Operate 1250tonG/G for GT Air inter 2000
407	Operate 1250tonC/C with additional C/	∦ for inlet 2日	20/08/25(火)	20/08/26 (水)	Operate 1250tonC/C with additional C/W for inlet#.
408	Operate 1250C/C with additional C/W f bundle	prtube 27日	20/09/25(金)	20/10/26(月)	Operate 1250C/C with additional C/W for tube tombe HITTITITY
409	Dismantling 1250tonC/C	10日	20/12/10(木)	20/12/21(月)	Dismantling 1250tonC/O
410	Assembly 600tonC/C	4日	20/08/20(木)	20/08/25 (火)	Assembly 500tonC/C
411	Operate 600tonC/C (without JIB)	54日	20/08/25 (火)	20/10/26(月)	Operate 600ton C/C (without JIB)
412	Dismantling 600tonC/C	4日	20/10/27 (火)	20/10/30(金)	Dismanting 660tonC/C
413	Assemby 750tonA/C for Condenser	4日	20/04/03(金)	20/04/06(月)	Assemby 750tonA/C for Condenser
414	Operate 750tonA/C for Condenser	22日	20/04/07 (火)	20/05/01(金)	Operate 750tonA/C for Condenser
415	Dismantling 750tonA/C for Condenser	2日	20/04/18(土)	20/04/20(月)	Dismantling 750tonA/C for Condenser
416	Assemby 500tonA/C for Exhaust duct	1日	20/10/29 (木)	20/10/30 (金)	Assemby 509 on A/C for Exhaust duct N
417	Operate 500tonA/G for Exhaust duct	17日	20/10/30(金)	20/11/18 (水)	Operate 500tonA/C for Exhaust duct
418	Operate 500tonA/C for HRSG outlet du (Support)	ct 1日	20/11/19(木)	20/11/19(木)	Operate 500tonA/C for HRSG outfet duct (Support)
419	Dismantling 500tonA/C for Exhaust duc	1日	20/11/20(金)	20/11/20(金)	Dismantling 500tonA/C for Exhaust duct 1
420	Assembly jib to 220tonA/C	2日	20/10/05(月)	20/10/07 (水)	Assembly jib to 22DronA/C. M
421	Operate 220tonA/C with jib	52日	20/10/07(水)	20/12/05 (土)	Operate 220tonA/C with jtb
422	Disassembly jib from 220tonA/C	2日	20/12/07(月)	20/12/08 (火)	Disassembly jib from 220tonA/C
423	250ton A/C	400日	19/12/16(月)	21/03/27(土)	250ton A/C
424	200tonA/C	480日	19/12/16(月)	21/06/29(火)	200tonA/C 1
425					
426	Equipment for heavy lifting	190日	20/03/11 (水)	20/10/16(金)	
427	SARLIFT	50日	20/03/11(水)	20/05/06 (水)	Equipment for heavy lifting
428	Assembly the rail for SARLIFT	22日	20/03/11 (水)	20/04/04(土)	SARLIST
429	Assembly the SARLIFT proper	6日	20/04/05(日)	20/04/13(月)	Assembly the rell for SARLIFT
430	Dismantling the SARLIFT	15日	20/04/20(月)	20/05/06 (水)	Assembly the SAFGLET proper
431	Gantry system	46日	20/08/03(月)	20/09/24 (木)	Dismontling the SARLIFT
432	Assembly the Gantry for powertrain	21日	20/08/03(月)	20/08/26 (水)	Gantry systemi
133	Disassembly the Gantry	15日		20/09/24 (木)	Assembly the Gantry for powertrain
434					Disassembly the Gantry Hannel
135	Unit carrier	176日	20/03/27 (金)	20/10/16(金)	
436	Preparation for transportation the Co			20/04/01 (水)	Unit carrier
437	Transportation the Condenser	2日		20/04/02(木)	Preparation for transportation the Condenser
437		2日		20/04/02(木)	Transportation the Condenser
	Disassembling Unit carrier				Disassembling Unit carrier
139	Assembling Unit carrier for Tube Bur			20/09/16(水)	Assembling Unit carrier for Tubo Bundle M
140	Transportation the Tube Bundle part			20/09/21 (月)	Transportation the Tube Bund's part
141	Disassembling Unit carrier	1日		20/09/22 (火)	Disassembling Unit carrier
142	Assembling Unit carrier for Tube Bun			20/10/10(土)	Assembling Unit carrier for Tube Bundle
143	Transportation the Tube Bundle part			20/10/15(木)	Transportation the Tube Bundle part270
144	Disassembling Unit carrier	1日		20/10/16(金)	Disassembling Unit carrier
445	Assembling Unit carrier for Power Tr	in 3日	20/08/21(金)	20/08/25 (火)	Assembling Unit carrier for Power Train
146	Test operation for transportation of F Train	ower 1日	20/08/25 (火)	20/08/25(火)	Test operation for transportation of Power Train 1
447	Transportation the Transformer	2日	20/08/31 (月)	20/09/01 (火)	Transportation the Transformer#
48	Transporatation the Gas Turbine Pro	per 2日	20/09/01 (火)	20/09/02 (水)	Transporatation the Gas Turbine Property
149	Transportation the Generator	2日	20/09/03 (木)	20/09/04 (金)	Transportation the Generator Ma
150	Disassembling the Unit carrier	1日	20/09/05(土)	20/09/05(土)	Disassymbling the Unit carrier

1. Change the starting date of installation below

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Appendix J

	6-Jul-2020 Rev_7
06月2021年07月2021年08月2021年09月2021年10月2021年11月2021年12月2 17: 新上 新中 新下 新上	2022年 2022年01月 2022年02月 20 1旬中旬下旬上旬中旬下旬上旬
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Appendix J
MASTER PROGRAMME

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

	Duration	Start	Finish	May	2021 Jun Jul
Contract Period Deferred Deferred	1123 days 1123 days	Fri 4/12/20 Fri 4/12/20	Sun 31/12/23 Sun 31/12/23		
Deferred Work Completion Key Dates Substantial Completion of the Whole Contract Works (1123 Days)	784 days 0 days	Mon 8/11/21 Sun 31/12/23	Sun 31/12/23 Sun 31/12/23		
SITE POSSESSION DATES Site Possession Date as phased site possesion plan and PS1.4.2	513 days 0 days	Fri 4/12/20 Fri 4/12/20	Sun 1/5/22 Fri 4/12/20		
Site Possession Date as phased site possession plan and PS1.4.2 Site Possession Date as phased site possession plan and PS1.4.2	0 days 0 days	Fri 1/1/21 Sat 1/5/21	Fri 1/1/21 Sat 1/5/21	Site Possession Date as phased site possession plan and PS1.4.2	
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 COMPLETION DATES as per PS1.4.2 Time for Completion	0 days 609 days	Sun 1/5/22 Wed 30/6/21	Sun 1/5/22 Tue 28/2/23		
Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & F2	0 days	Thu 30/9/21	Thu 30/9/21		
Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred works	0 days	Thu 30/9/21	Thu 30/9/21		
Section A2 (i) External Works including CW Inlet Culvert at Area F8A Section A2 (ii) External Works including CW Inlet 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		
Section B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 5 Section B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area F6A and F6C	0 days 0 days	Tue 31/8/21 Mon 15/11/21	Tue 31/8/21 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 except the deferred works					
Section C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB	0 days	Sat 15/1/22	Sat 15/1/22		
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 - (i) Microwave Antenna Room and Ch
Section D (ii) - No. 5 Chimney with L12 Steel Flue liner Section E (i) Tx Room of Administration and Control Building	0 days 0 days	Sat 30/4/22 Sun 31/10/21	Sat 30/4/22 Sun 31/10/21		
Section E (iii) - 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 0 days	Mon 28/2/22 Sat 30/4/22	Mon 28/2/22 Sat 30/4/22		
Section F (ii) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area F14	0 days	Thu 30/6/22	Thu 30/6/22		
(CKS) Area Extension at Area F14 Setion F (iii) - Pipe and Cable rack and external work at Area F9A and F9B Section F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10	0 days 0 days	Tue 31/5/22 Thu 30/6/22	Tue 31/5/22 Thu 30/6/22		
Section F (iii) - No. 5 UW Equipment Room, pipe and cable rack, external works at Area F10 Section G (i) - External Work surrounding Area F11 Section G (ii) - External Works at Area F12 & F13	0 days 0 days 0 days	Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22		
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 Section G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A Section G (vii) - Flood will at No. 4 CW Intake Area along HUA at Area F20P	0 days 0 days	Wed 1/6/22 Thu 30/9/21	Wed 1/6/22 Thu 30/9/21		
Seciton G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B Seciton G (ix) - Bund wall modification works at South Seafront Road at Area F21	0 days 0 days	Fri 30/9/22 Wed 30/6/21	Fri 30/9/22 Wed 30/6/21		♦ <seciton (ix)="" -="" at<="" bund="" g="" modification="" p="" wall="" works=""></seciton>
Section G (x) - DAX Cable Diversion Works (from Part I to Part IV) Section H - All remaining works shall be completed for reporting completion to BD and	0 days 0 days	Sat 31/12/22 Tue 28/2/23	Sat 31/12/22 Tue 28/2/23		
ready for OP inspection GENERAL & PRELIMINARY	228 days	Fri 4/12/20	Mon 19/7/21		📮 19 Jul '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		
Permit Applications & Statuary Submissions	120 days	Mon 22/3/21	Mon 19/7/21		Permit Application
Existing Utilities scanning & Excavation Permit Tower Crane erections	45 days 60 days	Tue 22/12/20 Sun 27/12/20	Thu 4/2/21 Wed 24/2/21		
FECHNICAL SUBMISSION AND APPROVAL BD Approval & Consent (if required)	<u>314 days</u> ^{0 days}	Thu 10/12/20 Thu 10/12/20	Wed 20/10/2 Thu 10/12/20		
Submission and Approval of Master Programme Work Execuation Overal Plan submission & approval	14 days 14 days	Fri 11/12/20 Fri 11/12/20	Thu 24/12/20 Thu 24/12/20		
Material Submissions and approval Method Statement submission and approval	300 days 300 days	Fri 25/12/20 Fri 25/12/20	Wed 20/10/21 Wed 20/10/21		
BIM Model, CSD & CBWD Submission & approval	120 days	Fri 25/12/20	Fri 23/4/21	i, CSD & CBWD Submission & approval	
Structure Steelwork Connection Design Submission & BD approval Structure Steelwork Shop Drawing & Approval	45 days 30 days	Tue 29/12/20 Fri 12/2/21	Thu 11/2/21 Sat 13/3/21		
Metal Cladding, louvre & windows submission & BD approval Metal Cladding, louvre & windows shop drawing submission	45 days 45 days	Tue 29/12/20 Fri 12/2/21	Thu 11/2/21 Sun 28/3/21	mission	
Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres) ELS Submission and BD approval	120 days 90 days	Mon 29/3/21 Fri 11/12/20	Mon 26/7/21 Wed 10/3/21		Order,
No. 5 Chimney windshield temporary work submission, approval & fabrication	60 days	Fri 11/12/20	Mon 8/2/21		
Steel Flue Assessment Report and Design Drawings submission & approval Folding Shutters Shop Drawing Submission & Approval	60 days 30 days	Tue 9/2/21 Thu 11/2/21	Fri 9/4/21 Fri 12/3/21	d Design Drawings submission & approval	
Fabrication & Delivery of Folding Shutters Sewage Pump System Design submission & approval	180 days 45 days	Sat 13/3/21 Tue 23/2/21	Wed 8/9/21 Thu 8/4/21	nission & approval	
Fabrication & Delivery of Sewage Pump Other material submission & approval & delivery	180 days 180 days	Fri 9/4/21 Sat 24/4/21	Tue 5/10/21 Wed 20/10/21		
Cotter material submission & approval & delivery	180 days 180 days 1123 days	Sat 24/4/21 Fri 4/12/20	Wed 20/10/21 Sun 31/12/23		
Coordination with the Employer's Specialist Contractors	421 days	Mon 22/3/21	Mon 16/5/22		
Installation of Puddle Pipes at C.W. outlet Culvert Installation of Puddle Pipes at C.W. Inlet Culvert	7 days 7 days	Mon 22/3/21 Tue 11/5/21	Sun 28/3/21 Mon 17/5/21	Installation of Puddle Pipes at C.W. Inlet Cult	vert
Template setting at L12 Turbo Block Foundation Template setting of holding down bolts at HRSG column base	45 days 45 days	Thu 28/10/21 Sun 6/6/21	Sat 11/12/21 Tue 20/7/21		Template setting
I-beam / channel base installation on top of transformer foundations at Transformer Area	45 days	Tue 1/6/21	Thu 15/7/21		I-beam / channel base in
Overhead crane erection at turbine hall using access through a temporary opening at L12	38 days	Fri 1/10/21	Sun 7/11/21		
MSB roof between GL12-G to 12-H and 12-2 to 12-6 Condenser assembly and erection using access through a temporary façade opening at	122 days	Thu 16/12/21	Sat 16/4/22		
L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C including a clear space below 1/F between GL 12-B to 12-C	-				
Installation of power train equipment including air inlet duct using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-F to 12-H	121 days	Sun 16/1/22	Mon 16/5/22		
including a clear space below 1/F of the above area	0.1		mi e e i i i e	ad materials such as holding down to the for-anti-such as the for-	marcament
Installation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21	ed materials such as holding down bolts for equipment foundations - Con	imencement
Section A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 & F2	<u>301 days</u>	<u>Fri 4/12/20</u>	<u>Thu 30/9/21</u>	c.B1(i)	
Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	30 days 60 days	Fri 4/12/20 Sun 17/1/21	Sat 2/1/21 Wed 17/3/21		
Excavation for CW Inlet Culvert (Type D Construction Area)	14 days	Mon 8/3/21	Sun 21/3/21		
Installation CW Inlet Culvert pipe + testing Construction of Thrust Box & Manholes,etc	30 days 14 days	Mon 22/3/21 Wed 21/4/21	Tue 20/4/21 Tue 4/5/21	Inlet Culvert pipe + testing Construction of Thrust Box & Manholes,etc	
Backfill Construction UG Utilities 2m deep below further surface	14 days 30 days	Wed 5/5/21 Thu 19/8/21	Tue 18/5/21 Fri 17/9/21	Backfill	
Temporary Paving and handover for plant erection Section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the	13 days 301 days	Sat 18/9/21 Fri 4/12/20	Thu 30/9/21 Thu 30/9/21	c.B1(l)	
section A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except the roof deferred workss Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21		
Subletting / Fabrication / Delivery	210 days	Sun 17/1/21	Sat 14/8/21		
Complete structural steel erection Install Crane Girders	0 days 18 days	Mon 6/9/21 Tue 7/9/21	Mon 6/9/21 Fri 24/9/21		
Construction of roof slab (except defer work) Touch up and handover for install overhead cranes	21 days 3 days	Tue 7/9/21 Tue 28/9/21	Mon 27/9/21 Thu 30/9/21		
Section A2 (i) External Works including CW Inlet Culvert at Area F8A BD consent for Sheetpile installation	<u>301 days</u> 30 days	Fri 4/12/20 Fri 4/12/20	Thu 30/9/21 Sat 2/1/21	c.B1(ii)	
Subletting / Fabrication / Delivery (both for Area F8A-F8B) Area Possession & Clearance	30 days 14 days	Fri 18/12/20 Sat 2/1/21	Sat 16/1/21 Fri 15/1/21		
Install Sheet pile BD Consent for ELS	55 days 28 days	Sat 16/1/21 Fri 12/3/21	Thu 11/3/21 Thu 8/4/21		
ELS and install CW Inlet Pipe (NW to N direction)	60 days 36 days	Fri 9/4/21 Tue 8/6/21	Mon 7/6/21 Tue 13/7/21	ELS and ir	nstall CW Inlet Pipe (NW to N direction)
	79 days 483 days	Wed 14/7/21 Fri 4/12/20	Thu 30/9/21 Thu 31/3/22		
Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving		Mon 1/2/21	Tue 2/3/21 Sat 2/1/21		
Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area F8B Area Possession & Clearance	30 days 30 days	Eri 4/12/20			
Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area F8B	30 days 30 days 90 days	Fri 4/12/20 Fri 2/4/21	Wed 30/6/21		, Ir <mark>stall Sheet pile</mark>
Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area F8B Area Possession & Clearance BD consent for Sheetpile installation Install Sheet pile	30 days 90 days		Wed 30/6/21	nmary	Install Sheet pile
Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area F8B Area Possession & Clearance BD consent for Sheetpile installation Install Sheet pile	30 days 90 days	Fri 2/4/21	Wed 30/6/21	nmary •	In <mark>stall Sheet pile</mark>
Construction of Thrust Box & Manholes,etc Backfill, UG Utilities and Road Paving Section A2 (ii) External Works including CW Intet Culvert at Area F8B Area Possession & Clearance BD consent for Sheetpile installation Install Sheet pile	30 days 90 days	Fri 2/4/21	Wed 30/6/21	nmary	Install Sheet pile

Appendix J

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

MASTER PROGRAMME

	BD Consent for ELS	28 days	Thu 1/7/21	Wed 28/7/21	May Jun Jul
	ELS and install CW Inlet Pipe Construction of Thrust Box & Manholes,etc Parkfill UIC Liftings and Park Park Park Park Park Park Park Park	90 days 60 days	Thu 29/7/21 Wed 27/10/21	Tue 26/10/21 Sat 25/12/21 Thu 31/3/22	
s	Backfil, UG Utilities and Road Paving Section A2 (iii) External Works including CW Inlet Culvert at Area F8C Area Possession & Clearance	96 days 182 days	Sun 26/12/21 Fri 1/10/21 Fri 1/10/21	Thu 31/3/22 Thu 31/3/22 Sat 30/10/21	
	Subletting / Fabrication / Delivery (for Area F8C)	30 days 60 days	Fri 1/10/21 Fri 1/10/21 Fri 1/10/21	Mon 29/11/21 Sat 30/10/21	
	BD consent for Sheetpile installation Install Sheet pile BD Consent for ELS	30 days 34 days 28 days	Sun 31/10/21 Sat 4/12/21	Fri 3/12/21 Fri 31/12/21	
	ELS and install CW Inlet Pipe Construction of Thrust Box & Manholes,etc	40 days 30 days	Sat 4/12/21 Sat 1/1/22 Thu 10/2/22	Wed 9/2/22 Fri 11/3/22	
	Section BI - Area south of L12 MSB from GL12-F westwards leading to Station Road	20 days	Sat 12/3/22	Thu 31/3/22	
	tt Area F3 Area Possession & Clearance	<u>377 days</u> 30 days	Fri 4/12/20 Fri 4/12/20	Wed 15/12/21 Sat 2/1/21	
	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21	/ Fabrication / Delivery Complete CW Pipe Installation & Thrust box
	Complete CW Pipe Installation & Thrust box Backfill	45 days 14 days	Fri 7/5/21 Mon 21/6/21	Sun 20/6/21 Sun 4/7/21	Complete CVV Pipe Installation & Infust box
	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 ncluding the foundations for Gas Exhaust Duct	243 days	<u>Fri 1/1/21</u>	Tue 31/8/21	
-	Area Possession & Clearance Subletting / Fabrication / Delivery (for F6B Civil and E&M)	30 days	Sat 2/1/21	Sun 31/1/21	Subletting / Fabrication / Delivery (for F6B Civil and E&M)
	Construction of Underground pits	120 days 35 days	Sat 2/1/21 Mon 1/2/21	Sat 1/5/21 Sun 7/3/21	
	Excavation & Construct Pile Caps & Tie Beams & Piers Construction HRSG & Gas Duct foundations	60 days 45 days	Mon 8/3/21 Fri 7/5/21	Thu 6/5/21 Sun 20/6/21	Excavation & Construct Pile Caps & Tie Beams & Piers Construction HRSG & Gas Duct foundations
	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	Construction underground utilities within HRSG
	Backfill & Construction on-grade slabs & RC plinths on top	60 days	Sat 12/6/21 Wed 11/8/21	Tue 10/8/21 Tue 31/8/21	
s	Backfill and Temporary paving Section B2 (ii) - Remaining northern part of Ll2 HRSG area and its surrounding at Area F6A and F6C Area Possessiong and Clearance at Area F6A	21 days 319 days 30 days	Fri 1/1/21 Sat 2/1/21	Mon 15/11/21 Sun 31/1/21	
	Subletting / Fabrication / Delivery (for Area F6A and F6C civil)	90 days	Sat 2/1/21 Sat 2/1/21 Sat 2/1/21	Sun 31/1/21 Thu 1/4/21 Sun 31/1/21	A and F6C civil)
	Construction of Underground pits Excavation & Construct Pile Caps & Tie Beams & Piers Construction underground utilities within HPSG	30 days 60 days	Mon 1/2/21	Thu 1/4/21	s & Piers
	Construction underground utilities within HRSG Backfill & Construction on-grade slabs & RC plinths on top Construct RC Walls	21 days 21 days 90 days	Fri 2/4/21 Fri 23/4/21 Fri 4/6/21	Thu 22/4/21 Thu 13/5/21 Wed 1/9/21	n underground utilities within HRSG Backfill & Construction on-grade slabs & RC plinths on top
	Construct RC Walls Construction of Underground utilities at F6C Parkfill and Temperary paving	90 days 60 days	Fri 4/6/21 Thu 2/9/21 Mon 1/11/21	Wed 1/9/21 Sun 31/10/21	
	Backfill and Temporary paving Section B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor	15 days <u>408 days</u>	Mon 1/11/21 Fri 4/12/20	Mon 15/11/21 Sat 15/1/22	c C2(li)
	ogether 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	45 days	Fri 4/12/20	Sun 17/1/21	
	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12) Complete excavation at Type A&C Construction Area	150 days 0 days	Fri 25/12/20 Sat 30/1/21	Sun 23/5/21 Sat 30/1/21	Subletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12
	Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block North)	75 days	Sun 31/1/21	Thu 15/4/21	8 Tie Beams + Slabs (Turbo Block North)
	Backfill and construction turbine block & equipment foundation Excavation & Pile Caps & Tie Beams + Slabs (Turbo Block South)	40 days 45 days	Tue 1/6/21 Sat 17/4/21	Sat 10/7/21 Mon 31/5/21	Backfill and construction turbi
	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 Construction of Lube Oil Room	30 days 45 days	Tue 28/9/21 Thu 28/10/21	Wed 27/10/21 Sat 11/12/21	
	Concrete RC walls ABFW Works	50 days 30 days	Tue 7/9/21 Thu 4/11/21	Tue 26/10/21 Fri 3/12/21	
	Reliable 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	<u>377 days</u>	Fri 4/12/20	Wed 15/1/22	c/C2(III)
	Pipe Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the nstallation of condenser				
	Area Possession & Clearance Subletting / Fabrication / Delivery (for MSB L12 civil)	45 days 150 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Sun 23/5/21	Subletting / Fabrication / Delivery (for MSB L12 civil)
	Excavation to foundation level at ELS SP Type A & C Install CW Outlet pipe	30 days	Fri 1/1/21 Sun 31/1/21	Sat 30/1/21 Mon 1/3/21	
	Construction of CW Outlet Box + lowest tie beam & caps Construction of pile caps & tie beams & sump pits up to +2.5mPD	50 days	Sun 31/1/21 Mon 22/3/21	Sun 21/3/21 Fri 16/4/21	aps & tie beams & sump pits up to +2.5mPD
	Backfill & Construction of CW Inlet Box + tie beams	26 days 24 days	Sat 17/4/21	Mon 10/5/21	Backfill & Construction of CW Inlet Box + tie beams
	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	Construction of pile caps & tie beams at SunShadeCover Area Backfill and Construction ground beams & trenches & equipment foundations
	Construction of indoor underground drainage Backfill & construction on-grade slabs	14 days 18 days	Tue 25/5/21 Tue 8/6/21	Mon 7/6/21 Fri 25/6/21	Construction of indoor underground drainage Backfill & construction on-grade slabs
	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 Iddition to the southern & eastern areas mentioned above in Area F5	<u>408 days</u>	<u>Fri 4/12/20</u>	Sat 15/1/22	
8	Area Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21	
	Subletting / Fabrication / Delivery	210 days	Fri 25/12/20	Thu 22/7/21	Subletting
	Complete substructure & Steel Erection works for MSB Construction all utilities deeper than 2m from future road level Construction of cable tracebase	0 days 60 days	Wed 28/7/21 Thu 29/7/21	Wed 28/7/21 Sun 26/9/21	
	Construction of cable trenches Backfill and lay temporary paving	90 days 21 days	Mon 27/9/21 Sun 26/12/21	Sat 25/12/21 Sat 15/1/22	
	Section C - (ii) Whole of L12 MSB including the pipe and cable rack along south acade of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and	<u>408 days</u>	<u>Fri 4/12/20</u>	<u>Sat 15/1/22</u>	
0	Dutlet Culvert except the deferred works Area Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
	Subletting / Fabrication / Delivery	120 days	Fri 25/12/20	Fri 23/4/21	/ Fabrication / Delivery
	Construction of pile caps & tie beams at Transformer Area Backfill and on-grade slab at transformer Area Construction of Fire Walls at Transformer Area	30 days 21 days 45 days	Sun 31/1/21 Tue 2/3/21 Tue 23/3/21	Mon 1/3/21 Mon 22/3/21 Thu 6/5/21	Construction of Fire Walls at Transformer Area
	Excavation & Construction Blow Down Sum pit (SP Type B)	50 days	Thu 25/2/21	Thu 15/4/21	tion Blow Down Sum pit (SP Type B)
	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	Presparation for S.Steelwork Erection Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)
	Structural Delivery & Erection (Equipment Floors) Structural Delivery & Erection (Turbine Hall South + East Elevation)	55 days 40 days	Fri 4/6/21 Thu 29/7/21	Wed 28/7/21 Mon 6/9/21	s s s s s s s s s s s s s s s s s s s
	Joint Tightening and touch up coating External Scaffolding Erection	145 days	Fri 4/6/21 Fri 4/6/21	Tue 26/10/21 Sun 31/10/21	
	Construction 1/F RC Slab	150 days 14 days	Thu 29/7/21	Wed 11/8/21	
	Construction 2/F RC Slab Construction 3/F RC Slab	18 days 18 days	Thu 12/8/21 Mon 30/8/21	Sun 29/8/21 Thu 16/9/21	
	Construction 4/F RC Slab Construction 5/F RC Slab	18 days 18 days	Fri 17/9/21 Tue 5/10/21	Mon 4/10/21 Fri 22/10/21	-
	Construction 6/F RC Slab Construction Upper Roof RC Slab	14 days 10 days	Sat 23/10/21 Sat 6/11/21	Fri 5/11/21 Mon 15/11/21	
	Construction Main Roof RC Slab	25 days	Tue 7/9/21	Fri 1/10/21	
	Construction Defer Roof RC Slab (G.L. G-H) Construction of Staircase ST-01 & lift shaft & machine room	14 days 150 days	Mon 8/11/21 Fri 4/6/21	Sun 21/11/21 Sun 31/10/21	
	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	
	Construction of Staircase ST-02 except defer work Construction of RC plinth, kerbs & parapet Walls	75 days 75 days	Fri 17/9/21 Sat 2/10/21	Tue 30/11/21 Wed 15/12/21	
	Erection of Skylight & Roof Features	56 days	Sat 2/10/21	Fri 26/11/21	
	Waterproofing & Flooring at Roof ABFW Works	50 days 120 days	Sat 27/11/21 Thu 12/8/21	Sat 15/1/22 Thu 9/12/21	
	Building Services Works Metal Cladding, Windows and Louvres incl. roof feature	135 days 145 days	Thu 2/9/21 Fri 25/6/21	Fri 14/1/22 Tue 16/11/21	
	Removal of external scaffolding Installation of Catwalk at south elevation	95 days 21 days	Tue 24/8/21 Fri 26/11/21	Fri 26/11/21 Thu 16/12/21	
	Cladding, ABWF & BS Works Removal of tempoary works & clearance for plant erection contractor	30 days 30 days	Fri 17/12/21 Fri 17/12/21	Sat 15/1/22 Sat 15/1/22	
	Section C - (iii) Link Bridge between L11 and L12 MSB includin their associated	408 days	<u>Fri 4/12/20</u>	Sat 15/1/22	
1	A&A at L11 MSB BD Consent Sub-Bite / Exhering / Delivery / Ext BC and ABME)	0 days	Fri 4/12/20	Fri 4/12/20	
	Subletting / Fabrication / Delivery (For BS and ABWF) Clearing Works and plant set-up	250 days 30 days	Fri 25/12/20 Mon 16/8/21	Tue 31/8/21 Tue 14/9/21	
	Dismantle of north scaffold for link bridge erection A&A works at South of L11 MSB	0 days 30 days	Tue 24/8/21 Tue 24/8/21	Tue 24/8/21 Wed 22/9/21	
	Erection of link bridge structural steel Casting of bridge deck	30 days 11 days	Thu 23/9/21 Sat 23/10/21	Fri 22/10/21 Tue 2/11/21	
	Metal roofing installation	24 days	Wed 3/11/21	Fri 26/11/21	
	D MASTER PROGRAMME Double Task Split		Milestone 🔶	S	ummary
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	D MASTER PROGRAMME 021 Rev. 1-A Split		··· Milestone ♦	Si	ummary V

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

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Appendix J

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

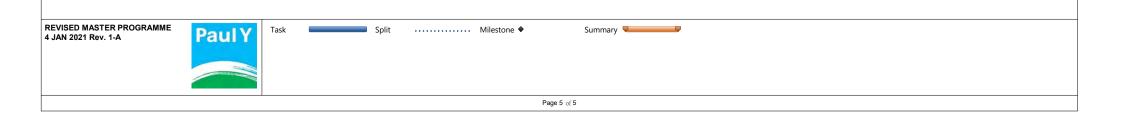
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nd wall modification works at South Seafront Road at Area F21	209 days 45 days 90 days	Tue 2/8/22 Thu 1/9/22	Wed 31/8/22 Wed 21/9/22		
ication / Delivery Ce Arrangement approval Ce Arrange	90 days	Thu 22/9/22 Fri 4/12/20	Fri 30/9/22 Wed 30/6/21		
I & consent sting carriageway reground services and expose exising UU sion existing UG utilities	4.4 -1	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Wed 24/3/21		
isting carriageway eground services and expose exising UU sion existing UG utilities	14 days 0 days	Fri 4/12/20 Thu 17/12/20	Thu 17/12/20 Thu 17/12/20		
and expose exising UU sion existing UG utilities	14 days 14 days	Fri 18/12/20 Fri 1/1/21	Thu 31/12/20 Thu 14/1/21		
	21 days 30 days	Fri 15/1/21 Fri 5/2/21	Thu 4/2/21 Sat 6/3/21		
expose existing bund wall & demolish v bund wall for road junction	18 days	Sun 7/3/21	Wed 24/3/21		Construction new hund wall for read junction
tall new UG utilities	45 days 30 days	Thu 25/3/21 Sun 9/5/21	Sat 8/5/21 Mon 7/6/21		Construction new bund wall for road junction
mpletion	18 days 5 days	Tue 8/6/21 Sat 26/6/21	Fri 25/6/21 Wed 30/6/21		backfill and construct new carriageway
K Cable Diversion Works (from Part I to Part IV) cce Arrangement approval	758 days 14 days	Fri 4/12/20 Fri 4/12/20	Sat 31/12/22 Thu 17/12/20		
ication / Delivery & Clearance	90 days 45 days	Fri 25/12/20 Fri 4/12/20	Wed 24/3/21 Sun 17/1/21		
axisting cable trench ation 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		
ation works incl. joint bay ation works incl. joint bay	120 days 242 days	Mon 1/11/21 Mon 1/11/21	Mon 28/2/22 Thu 30/6/22		
ation works incl. joint bay & new oil tank pits atement Part 1	92 days 61 days	Sat 1/10/22 Mon 1/11/21	Sat 31/12/22 Fri 31/12/21		
atement Part 2 atement Part 3	61 days 61 days	Sun 1/5/22 Thu 1/9/22	Thu 30/6/22 Mon 31/10/22		
remaining works shall be completed for reporting completion to BD	<u>478 days</u>	<u>Mon 8/11/21</u>	<u>Tue 28/2/23</u>	<u>3</u>	
(MSB & HRSG) Listed in PS 1.4.4	281 days 38 days	Mon 8/11/21 Mon 8/11/21	Mon 15/8/22 Wed 15/12/21		
of walls ofL12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircas	92 days	Mon 16/5/22	Mon 15/8/22		
of internal partition wall at 1/F ofL12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Fac	30 days	Sat 16/4/22	Sun 15/5/22		
of metal fence and the associated Fire Services (F.S.) installations and installation of removab (DAX1 and DAX2) Listed in PS 1.4.4	92 days 334 days	Wed 1/2/23	Sun 31/12/23		
whole DAXI compartment inside existing joint bay "STJI2" and the new oil tank pit A located as n 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		
whole DAX2 compartment inside existing joint bay "STJI2" and the new oil tank pit B located a (External Work) Listed in PS 1.4.4	61 days 121 days	Wed 1/11/23 Thu 1/12/22	Sun 31/12/23 Fri 31/3/23		
ment of access roads and pavement surrounding and within L12 MSB and L12 HRSG area trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16,	62 days 90 days	Thu 1/12/22 Sun 1/1/23	Tue 31/1/23 Fri 31/3/23		
d road-reinstatement of 275kV cable trenches g work ready for OP inspection	90 days 0 days	Sun 1/1/23 Tue 28/2/23	Fri 31/3/23 Tue 28/2/23		
SION, INSPECTION & APPROVAL mission, Inspection and Approval WWO Part I to III Submission / Approval	865 days?	Fri 15/1/21 Fri 15/1/21	Mon 29/5/23 Mon 27/9/21		
WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage) mm WWO 046 Part I and II Submission	0 days	Fri 15/1/21	Fri 15/1/21	10 0	046 Part I and II Submission
Form WWO 046 Part III by WSD - FOR ACB Building	0 days	Fri 16/4/21	Fri 16/4/21		AO 646 Part III by WSD - FOR ACB Building WSD: Prepare for 1st Amendment for Plumbing Plan
WSD 1st Amendment for Plumbing Plan	0 days	Mon 14/6/21	Mon 14/6/21		SUP Prepare for 1st Amendment for Plumbing Plan
val for Plumbing Plan by WSD	0 days	Fri 13/8/21	Fri 13/8/21		
d Final Approval for Plumbing Plan by WSD	0 days	Mon 27/9/21	Mon 27/9/21		
/O 046 Part IV Submission (FS)	34 days? 0 days	Mon 4/10/21	Mon 4/10/21		
ieved Form WW0046 Part IV and arrange for inspection (FS) ection (FS)	7 days 7 days	Tue 5/10/21 Sat 30/10/21	Fri 5/11/21		
6 Part V Endorsement by WSD (FS) cessing Water Supply Connection Certificate (FS)	12 days 7 days	Sat 6/11/21 Thu 18/11/21			
WSD Water Supply Connection Certificate (FS) bmission, 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		
/O 046 Part IV Submission (Fresh/Flush) nowledge Form WWO 046	0 days 6 days	Mon 18/10/21 Tue 19/10/21	Mon 18/10/21 Sun 24/10/21		
/Disinfecting Water Tanks / Piping System (Fresh/Flush)	12 days 6 days	Mon 25/10/21 Sat 6/11/21	Fri 5/11/21 Thu 11/11/21		
of Sample for Testing at Accredited Lab (Fresh/Flush)	12 days	Fri 12/11/21 Wed 24/11/21	Tue 23/11/21		
Test Report by WSD	6 days	Mon 6/12/21	Sat 11/12/21		
cessing WW01005 Water Certification (Fresh/Flush)	6 days	Sun 12/12/21	Fri 17/12/21		
bry Submission, Inspection and Approval	45 days	Sat 5/2/22	Mon 21/3/22		
ion of Lift Form LE5 to EMSD lakes arrangement for Lift Installation	5 days	Thu 17/2/22	Mon 21/2/22		
spection to Lift Installation ng Lift Certificate (Form LE6)	14 days 14 days	Tue 22/2/22 Tue 8/3/22	Mon 7/3/22 Mon 21/3/22		
Final Inspection	0 days 120 days	Mon 21/3/22 Thu 30/6/22	Mon 21/3/22		
HKE For Transformer Room Inspection Access to Transformer Room for HKE Contractor	7 days 0 days	Thu 30/6/22 Wed 6/7/22	Wed 6/7/22 Wed 6/7/22		
IN HKE Transformer Equipments	5 days	Thu 7/7/22	Mon 11/7/22		
	Itement Part 3 remaining works shall be completed for reporting completion to BD Prinspection (PS14.4) (MS8 a HRSG) Listed in PS 1.4.4 IL2 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation if walls of L12 MSB below 1/F along GL 12-6 from GL 12-8 to 12-C and the associated staircas isociated with hoisting well if internal partition wall at 1/F ofL12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Faç if metal fence and the associated Fire Services (F.S.) installations and installation of removab (DAX1 and DAX2) Listed in PS 1.4.4 if the MDAX2 compartment inside existing joint bay "STJI2" and the new oil tank pit A located as if while DAX2 compartment inside existing joint bay "STJI2". whole DAX2 compartment inside existing iont bay "STJI2". whole DAX2 compartment inside existing (or tay "STJI2". whole DAX2 compartment inside existing (or tay "STJI2". whole DAX2 compartment to [as pipe and cable trenches within Area F5, F14, F16, ir cad-reinstatement of 275kV cable trenches work ready for DP inspection SiON, INSPECTION & APPROVAL mission, Inspection and Approval WWO Part I to III Submission / Approval WSD Form WWO 046 Part I to II -FOR ACB Building (for Ext Works at later stage) m WWO 046 Part I to II -FOR ACB Building (for Ext Works at later stage) form WWO 046 Part I to II -FOR ACB Building (for Ext Works at later stage) form WWO 046 Part I to II -FOR ACB Building (for Ext Works at later stage) form WWO 046 Part I to II -FOR ACB Building (for Ext Works at later stage) form WWO 046 Part IV and arrange for inspection (FS) external for Plumbing Plan by BD for Plumbing Plan by WSD for WWO 046 Part IV and arrange for in	temen Part 3 61 days cremaning works shall be completed for reporting completion to BD 478 daxs PD inspection (PS1.4.4) 221 days (MSB & HRSO) Listed in PS 1.4.4 221 days if 12 MSB rob twees GL12-6 to 12-H and 12-2 to 12-2 and the associated staircas 92 days issociated with hoisting well 21 days if internal partition wall at 1/F 0.12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Fac 30 days if metal fence and the associated Fire Services (F.S.) installations and installation of removab 92 days (DAX1 and DAX2) Listed in PS 1.4.4 121 days 61 days whole DAX2 compartment inside existing joint bay "ST1/2" and the new oil tank pit B located a 61 days (External Work) Listed in PS 1.4.4 121 days trench cover and road reinstatement of gas pipe and cable tenches within Area F5, F14, F16, 90 days 90 days isoch instatement of 25KV cable tenches 0 days 90 days isoch instatement of 25KV cable tenches 0 days 90 days work ready for OP inspection 0 days 90 days SiON INSPECTION & APPROVAL 865 days 0 days mission, inspection and Approval WWO Part I to III Submission / Approval 226 days if orhumbing Plan <td>tement Part 3 tement Part 3 61 days The 10/22 remaining works shall be completed for reporting completion to BD 478 days Mon 8/11/21 Prinspection (PS1.4.4) 231 days Mon 8/11/21 IVI.2 MBS to detween OL 12-6 to 12-H and 12-2 to 12-6 after the overhead crane installation and installations and installations and installation and provement surrounding and while 112 MSB and 112</td> <td>International works shall be completed for reporting completion to BD. 478 daxs Mon 8/11/21 The 28/2/2 Wins ArtRSD Junct in PS 1.4. 231 days Mon 8/11/21 The 28/2/2 Wins ArtRSD Junct in PS 1.4. 231 days Mon 8/11/21 Wen 15/6/22 Wasia Gn12 MBS bevit /F along GL 124 for 0.2.4 bit 0.4 and the associated statics: 36 days Mon 16/6/22 Mon 15/6/22 wasia Gn12 MBS bevit /F along GL 124 for 0.1.2.2 to 12.4 and the associated statics: 30 days San 16/4/22 San 26/6/22 internal antime wall 1 ff of 12 MSB along GL 12.5 for Chrom GL 12.2 to 12.4 ANN North Fage 30 days San 16/6/22 Mon 15/6/22 GAX1 and DAX2 Listed in PS 1.4.4 Mon 16/6/22 Mon 15/6/22 Mon 15/6/22 GAX1 and DAX2 Listed in PS 1.4.4 121 days Mon 15/6/22 Mon 15/6/22 GAX1 and DAX2 Listed in PS 1.4.4 121 days Fin 13/2/23 Fin 13/2/23 into bax compartment inside existing joint bay 'STU2': and the new oil tak pt 1 locate a 61 days Twe 11/222 Fin 31/2/23 into hax compartment inside existing joint bay 'STU2': and the new oil tak pt 1 socate a 61 days Twe 11/222 Fin 31/2/23 into hax compartment inside existing joint b</td> <td>International provides Sublic Completed for reporting completion to BD df days Thu 19922 Mon \$11/21 Thu 28/27.23 VP inspection (PS1.4.4) 281 days Mon \$11/21 Thu 28/27.23 VB and Social to PS 1.4.4 281 days Mon \$11/21 Non \$11/22. Thu 28/27.23 VP inspection (PS1.4.4) 281 days Mon \$11/21 Non \$11/22. Non \$11/23. Non \$11/22. Non \$11/22. Non \$11/22. Non \$11/23. Non \$11/23.</td>	tement Part 3 tement Part 3 61 days The 10/22 remaining works shall be completed for reporting completion to BD 478 days Mon 8/11/21 Prinspection (PS1.4.4) 231 days Mon 8/11/21 IVI.2 MBS to detween OL 12-6 to 12-H and 12-2 to 12-6 after the overhead crane installation and installations and installations and installation and provement surrounding and while 112 MSB and 112	International works shall be completed for reporting completion to BD. 478 daxs Mon 8/11/21 The 28/2/2 Wins ArtRSD Junct in PS 1.4. 231 days Mon 8/11/21 The 28/2/2 Wins ArtRSD Junct in PS 1.4. 231 days Mon 8/11/21 Wen 15/6/22 Wasia Gn12 MBS bevit /F along GL 124 for 0.2.4 bit 0.4 and the associated statics: 36 days Mon 16/6/22 Mon 15/6/22 wasia Gn12 MBS bevit /F along GL 124 for 0.1.2.2 to 12.4 and the associated statics: 30 days San 16/4/22 San 26/6/22 internal antime wall 1 ff of 12 MSB along GL 12.5 for Chrom GL 12.2 to 12.4 ANN North Fage 30 days San 16/6/22 Mon 15/6/22 GAX1 and DAX2 Listed in PS 1.4.4 Mon 16/6/22 Mon 15/6/22 Mon 15/6/22 GAX1 and DAX2 Listed in PS 1.4.4 121 days Mon 15/6/22 Mon 15/6/22 GAX1 and DAX2 Listed in PS 1.4.4 121 days Fin 13/2/23 Fin 13/2/23 into bax compartment inside existing joint bay 'STU2': and the new oil tak pt 1 locate a 61 days Twe 11/222 Fin 31/2/23 into hax compartment inside existing joint bay 'STU2': and the new oil tak pt 1 socate a 61 days Twe 11/222 Fin 31/2/23 into hax compartment inside existing joint b	International provides Sublic Completed for reporting completion to BD df days Thu 19922 Mon \$11/21 Thu 28/27.23 VP inspection (PS1.4.4) 281 days Mon \$11/21 Thu 28/27.23 VB and Social to PS 1.4.4 281 days Mon \$11/21 Non \$11/22. Thu 28/27.23 VP inspection (PS1.4.4) 281 days Mon \$11/21 Non \$11/22. Non \$11/23. Non \$11/22. Non \$11/22. Non \$11/22. Non \$11/23. Non \$11/23.

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

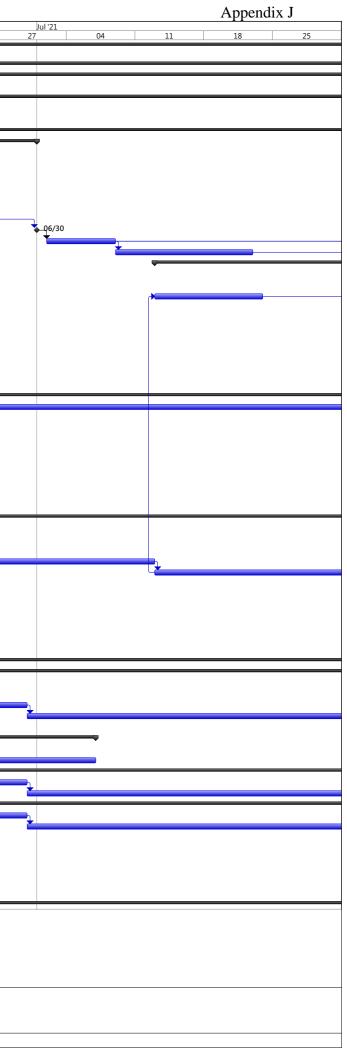
			5			
ID Task Name	Duration	Start	Finish			2021
18 TX Room: Install HKE Transformer, MEP Works & Testing	90 days	Tue 12/7/22	Sun 9/10/22	Мау	Jun	Jul
19 TX Room: HKE Power Energization / Inspection	6 days	Mon 10/10/22	Sat 15/10/22			
20 TX Room: Metering Installation	12 days	Sun 16/10/22	Thu 27/10/22			
521 TX Room: HKE Power-ON Date	0 days	Thu 27/10/22	Thu 27/10/22			
522 DSD Drainage Completion Memo	65 days	Mon 29/8/22	Tue 1/11/22			
DSD: CCTV Survey Report on Completed Drainage	30 days	Mon 29/8/22	Tue 27/9/22			
524 DSD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit	7 days	Wed 28/9/22	Tue 4/10/22			
525 DSD: Completed Drainage System including TMC Inspection/Technical Audit by DSD	14 days	Wed 5/10/22	Tue 18/10/22			
526 DSD: Preparation of Drainage Connection Completion Memo by DSD	14 days	Wed 19/10/22	Tue 1/11/22			
527 DSD: Issue of Drainage Connection Completion Memo by DSD	0 days	Tue 1/11/22	Tue 1/11/22			
528 EPD Submission, Inspection and Approval	60 days	Thu 30/6/22	Mon 29/8/22			
529 EPD: License Application to EPD under APCO (Cap 311) for Generator Sets	0 days	Thu 30/6/22	Thu 30/6/22			
530 EPD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets	60 days	Fri 1/7/22	Mon 29/8/22			
531 EPD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	0 days	Mon 29/8/22	Mon 29/8/22			
532 FSD VAC Statutory Submission, Inspection and Approval	150 days	Sat 16/7/22	Mon 12/12/22			
533 Preparation of FSD VAC Drawings and Submission to HEC	60 days	Sat 16/7/22	Tue 13/9/22			
534 HEC: Review and Approval	30 days	Wed 14/9/22	Thu 13/10/22			
535 Preparation of VAC Drawings and Submission to FSD	30 days	Fri 14/10/22	Sat 12/11/22			
536 FSD: Review and Approval	30 days	Sun 13/11/22	Mon 12/12/22			
537 FSD Statutory Submission, Inspection and Approval	91 days	Tue 28/2/23	Mon 29/5/23			
538 Testing and Commissioning (Individual System - FSI Related)	45 days	Tue 28/2/23	Thu 13/4/23			
539 FSD: All Sections FS Ingration Test by NSC_BS	15 days	Fri 14/4/23	Fri 28/4/23			
540 FSD: Completion of FS Integration Test by NSC_BS for FS314/501	0 days	Fri 28/4/23	Fri 28/4/23			
541 FSD: Submit Form 213/314 & Form 501 Reguest for Inspection	0 days	Fri 28/4/23	Fri 28/4/23			
542 FSD: FSD Makes Arrangement for Inspection	7 days	Sat 29/4/23	Fri 5/5/23			
543 FSD: FSD Inspection	12 days	Sat 6/5/23	Wed 17/5/23			
544 FSD: Completion of FS Inspection	0 days	Wed 17/5/23	Wed 17/5/23			
545 FSD: FSD Processing FS Certicate Form 172	12 days	Thu 18/5/23	Mon 29/5/23			
546 FSD: Issue of Fire Services FS Certificate Form 172	0 days	Mon 29/5/23	Mon 29/5/23			
547 PRACTICAL COMPLETION	216 days	Tue 30/5/23	Sun 31/12/23			
548 BD Inspection	97 days	Tue 30/5/23	Sun 3/9/23			
549 BD: Application Form BA13 for OP Application	21 days	Tue 30/5/23	Mon 19/6/23			
550 BD: BD Inspection Date	15 days	Tue 20/6/23	Tue 4/7/23			
BD: Reinspection date with defects and rectification works	60 days	Wed 5/7/23	Sat 2/9/23			
552 BD: Obtain Occupation Permit (OP) from BD	1 day	Sun 3/9/23	Sun 3/9/23			
553 As-Built Drawings & Handover Documentation	120 days	Wed 14/6/23	Wed 11/10/23			
554 Prepare and Submit As-Built Drawings & Handover Documentation	45 days	Wed 14/6/23	Fri 28/7/23			
555 Review and Approval	45 days	Sat 29/7/23	Mon 11/9/23			
556 As-Built Drawings & Handover Documentation - Revision by MC	30 days	Tue 12/9/23	Wed 11/10/23			
557 Revised As-Built Drawings & Handover Documentation - Final Submission	0 days	Wed 11/10/23	Wed 11/10/23			
558 Completion of the Whole Contract Works	119 days	Mon 4/9/23	Sun 31/12/23			
559 1st Client Inspection for Review and Comments	30 days	Mon 4/9/23	Tue 3/10/23			
560 Defects and Rectification works	60 days	Wed 4/10/23	Sat 2/12/23			
561 2nd Client Inspection	14 days	Sun 3/12/23	Sat 16/12/23			
562 Minor Defects Rectification Works and Final Inspection	15 days	Sun 17/12/23	Sun 31/12/23			
563 PRACTICAL COMPLETION	0 days	Sun 31/12/23	Sun 31/12/23			

MASTER PROGRAMME



		Duration Ctort	Finish		4 121					1 121				
ID 👩	Task Name	Duration Start	Finish	25	/lay '21	02	09	16	23	Jun '21 30	06	13	20	
1	19-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension	664 days Mon 10/05/20	Fri 12/23/22											
2	Contract Details	518 days Mon 10/05/20	Thu 07/07/22											
15	Submission	308 days Wed 10/28/20												
36	Procurement	166 days Mon 10/19/20			_									
45	No.5 C.W. Intake	589 days Mon 10/05/20	Tue 09/27/22		_									
46 📖	Erect of Hoarding and Door Gate	12 days Mon 10/05/20	Sat 10/17/20											
47	Install Monitoing Instrumentation	16 days Sat 10/17/20												
54	ELS works for No. C.W. Intake	323 days Tue 12/29/20												-
55 56	Installation of pipe pile wall PP1-PP30 (30 nos)	147 days Tue 12/29/20 20 days Tue 05/04/21												
57	PP31-PP85 (55 nos)	85 days Tue 12/29/20												
58	PP86-PP106 (21 nos)	14 days Fri 04/16/21												
59	PP107-PP127 (21 nos)	14 days Fri 04/16/21	Mon 05/03/21											
60	PP128-PP183 (56 nos)	85 days Tue 12/29/20	Thu 04/15/21											
61	PP184-PP214 (31 nos)	20 days Tue 05/04/21			Ě									
62	Submission of BA14, as-built plan and record	2 days Fri 05/28/21												
63 64	BD Excavation Consent	0 days Wed 06/30/21												
65	Excavate upto +4.50mPD Installation the 1st row of waling (WT1) and strut (CS1)	6 days Fri 07/02/21 12 days Fri 07/09/21												
66	Installation of 1st row of Tie Back	65 days Tue 07/13/21												
67	RW01 (01-22)	8 days Fri 08/13/21												
68	RW01 (23-70)	16 days Mon 08/23/21	Thu 09/09/21											
69	RW01F (01-28)	10 days Tue 07/13/21												
70	RW01F (29-77)	17 days Sat 08/21/21												
71 72	RW01F (78-98)	7 days Fri 08/13/21												
72	Pull Out Test for Tie Back Excavate upto +2.70mPD	2 days Sat 09/25/21 6 days Tue 09/28/21												
74	Installation the 2nd row of waling (WT2) and strut (CS2)	12 days Wed 10/06/21												
75	Installation of 2nd row of Tie Back	85 days Tue 08/10/21												
82	Excavate uoto +1.00mPD	6 days Sat 11/20/21	Fri 11/26/21											
83	Excavate upto -7.50mPD	52 days Sat 11/27/21												
84	Temporary removal of sea wall	236 days Fri 05/21/21						•						
85 86	Application of Marine Permit Install silt curtain wall	78 days Fri 05/21/21 2 days Thu 11/25/21												
87	Tempoary removal of sea wall (USS)	26 days Sat 11/27/21												
88	Removal of existing culvert off-site (USS)	26 days 5 5 11/2//21 26 days Thu 12/30/21												
89	Prepare formation level for intake chamber	26 days Mon 01/31/22												
90	Construction of No. 5 C.W. Intake Chamber	266 days Sat 09/25/21	Thu 08/18/22											
115	Reinstatement of sea wall	104 days Sat 03/26/22												
119	Backfilling Works and Strut removal	122 days Sat 03/19/22												
126 129	Steel Gantry Frame at No. 5 C.W. Intake Chamber E&M Works	36 days Wed 08/17/22 240 days Sat 11/27/21												
134	External works including CW Inlet Culvert at Area F8C	210 days Fri 03/12/21			_									
135 💷	BD Amendment Submission	0 days Fri 03/12/21												
136	Consent for ELS works (SSP Only)	48 days Fri 03/12/21	Wed 05/12/21		_									
137	Install Sheet Pile	26 days Thu 05/13/21												
138	BD Consent for ELS	23 days Tue 06/15/21												
139 140	ELS and install 1st tie back system Pull Out Test for Tie Back	18 days Tue 07/13/21 6 days Tue 08/03/21												
140	ELS and install 2nd tie back system	18 days Tue 08/10/21												
142	Pull Out Test for Tie Back	6 days Tue 08/31/21												
143	ELS and Blinding Layer	6 days Tue 09/07/21												
144	Install CW Inlet Pipe	18 days Tue 09/14/21												
145	Construction of Thrust Box & Manholes, etc.	24 days Thu 10/07/21												
146 147	Backfill, UG Utilities and Road Paving No 5 CW Equipment Room, pipe and cable rack, external works at Area F10	17 days Fri 11/05/21 426 days Wed 04/14/21							 			 		
147	CW Pump Equip Room No. 5	365 days Wed 04/14/21												
149	Install Sheet Pile	12 days Wed 04/14/21												
150	Consent for ELS works	26 days Wed 04/28/21	Mon 05/31/21		_					5				
151	Excavation & Plate Load Test	25 days Mon 05/31/21							ſ					
152	Construction new footing for equipment room	37 days Wed 06/30/21												
153 154	Superstructure for equipment room Chlorinators Area	73 days Wed 04/06/22										 		
154	Excavation & Plate Load Test	30 days Mon 05/31/21 12 days Mon 05/31/21												
155	Construction new footing for equipment room	18 days Tue 06/15/21										 		
157	Pipe and cable rack (Phase IV - F45-F47 & F49)	62 days Mon 05/31/21												
158	Excavation & Plate load test for pipe rack extension	25 days Mon 05/31/21							-					
159	Construction new footing for pipe rack	37 days Wed 06/30/21												
160	Pipe and cable rack (Phase IV - F48 & F56) - Consider footing shift northern side	62 days Mon 05/31/21												-
161 162	Excavation & Plate load test for pipe rack extension	25 days Mon 05/31/21							ų į					-
162	Construction new footing for pipe rack Backfilling and prepare for steel erection	37 days Wed 06/30/21 7 days Fri 08/13/21												
163	Erection of new pipe rack	54 days Wed 04/06/22												
165	Underground utilities and road works for completion	47 days Wed 06/15/22												
166	Backfilling and prepare for steel erection	7 days Tue 08/09/22												
167	Erection of new pipe rack	26 days Wed 08/17/22	Thu 09/15/22											
168	External Work Surrounding Area F11	115 days Fri 08/12/22												
175	Cable Bridge	444 days Wed 11/11/20	Mon 05/16/22											

Project: 10 92014 No. 5 Intelse and Cable Pr	Task		Summary	External Milestone	•	Inactive Summary	Manual Summary Rollu	p	Finish-only	3
Project: 19-83014 - No. 5 Intake and Cable Br Date: 23 Jan 2021 Rev. 2(a) - Combined L12 Area (Draft)	Split		Project Summary	Inactive Task		Manual Task	Manual Summary	·	Progress	
Rev. 2(a) - Combined L12 Area (Drait)	Milestone	•	External Tasks	Inactive Milestone	Φ	Duration-only	Start-only	C	Deadline	\$
							Page 1			



		ask Name	Duration Start	Finish	May 25	02	09		16		23	Jun '21 30	06	13	20	
1 2	1	9-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension Contract Details	518 days Mon 10/05/20 518 days Mon 10/05/20													
15		Submission	308 days Woh 10/03/20 308 days Wed 10/28/20													
36		Procurement	166 days Mon 10/19/20													
45		Cable Bridge	442 days Wed 11/11/20					-								
46 🔳		Erect of Hoarding and Door Gate	12 days Wed 11/11/20													
47		Install Monitoing Instrumentation	2 days Wed 11/25/20	Thu 11/26/2												
54		Pile Cap Construction	196 days Wed 12/30/20	Sat 08/28/2												
55		LPS Pile Cap (PC5)	80 days Thu 01/21/21													
56 💷		Excavation to F.E.L. by open cut (From +4.50mPD to +1.95mPD)	42 days Thu 01/21/21													
57		Socket H-pile head treatment (14 nos)	6 days Mon 03/15/21													
58 59		Construction of Pile Cap PC5 Backfilling to pile cap level	26 days Mon 03/22/21		_											
60		LMX Pile Cap (PC6)	6 days Mon 04/26/21 196 days Wed 12/30/20													
61		Expose existing 275kV cable trench by hand dig method	12 days Wed 12/30/20													
62		Install pipe pile (P1-P47)	24 days Thu 01/28/21													
63		Submission of BA14, as-built plan and record	14 days Mon 03/01/21													
64		BD Excavation Consent	0 days Tue 04/20/21													
65		Excavate to 500mm below strut level	6 days Wed 04/21/21	Tue 04/27/2												
66		Install waling system (W1)	6 days Wed 04/28/21	Wed 05/05/2												
67		Excavate to F.E.L.	12 days Thu 05/06/21							1						
68		Timming to COL for Dia 2180mm Bored Pile (8nos)	26 days Fri 05/21/21							Č.						
69		Construction of Pile Cap PC6	52 days Tue 06/22/21													
70		Backfilling to pile cap level	6 days Mon 08/23/21													
71 72		Exisitng Seawall modification works (USS) Construction of Cable Bridge	26 days Mon 08/23/21 326 days Wed 04/07/21													
73		Off-site precast beam construction (PCB1-PCB12)	142 days Wed 04/07/21													
74		Type 2 (PCB6 - PCB12)	88 days Wed 04/07/21													
75		PCB12	20 days Wed 04/07/21													
76		PCB11	20 days Fri 04/23/21													
77		PCB10	20 days Tue 05/11/21	Thu 06/03/2			•									
78		PCB9	16 days Fri 05/28/21	Wed 06/16/2							\					
79		PCB8	16 days Wed 06/09/21										\			
80		PCB7	16 days Tue 06/22/21													
81		PCB6	16 days Mon 07/05/21													
82		Type 1 (PCB1 - PCB5)	60 days Fri 07/16/21													
83 84		PCB5 PCB4	16 days Fri 07/16/21													
85		PCB4 PCB3	16 days Wed 07/28/21 16 days Mon 08/09/21													
86		PCB2	16 days Fri 08/20/21													
87		PCB1	20 days Wed 09/01/21													
88		Application of Marine Permit	78 days Tue 06/22/21													
89		Erect precast beam (PCB1-PCB12)	16 days Thu 09/23/21													
90		Construction of Diaphragm Beams (DB7-DB11)	36 days Wed 10/13/21	Wed 11/24/2												
91		Stage 2 PT Stressing	6 days Thu 12/02/21	Wed 12/08/2												
92		Constrcution of 200mm thk R.C. Middle Slab	36 days Thu 12/09/21													
93		Installation of Precast Panel (for planter and kerb)	52 days Mon 01/24/22													
94		Casting of 250mm thk. R.C. Top Slab	18 days Tue 03/08/22													
95 96	_	Road paving work	24 days Mon 04/11/22													
96 97		Installation of steel parapet Construction of Abutment at LPS	24 days Mon 04/11/22 114 days Thu 12/09/21													
98	-	Construction of Shear Key NSK2	12 days Thu 12/09/21													
99	-	Construction of End Beam EB1	40 days Thu 12/23/21													
100	-	Construction of Shear Key NSK1	18 days Tue 02/15/22													
101	-	Construction of Abutment Wall AW2	18 days Tue 03/08/22													
102		Construction of Retaining Wall (Type 1, RWA & RWB)	26 days Tue 03/29/22													
103		Construction of Retaining Wall (Type 2, RWA & RWB)	26 days Tue 03/29/22	Tue 05/03/2												
104		Construction of Abutment at LMX	110 days Thu 12/09/21													
105		Construction of Shear Key SSK1	12 days Thu 12/09/21													
106		Construction of End Beam EB2	26 days Thu 12/23/21													
107		Construction of maintenance chamfer	18 days Wed 01/26/22													
108 109	_	Construction of Abutment Wall AW1	18 days Sat 02/19/22													
109	_	Construction of late cast portion of pile cap PC6 Cast mass concrete retaining wall and planter end wall	18 days Sat 03/12/22 18 days Sat 04/02/22													
110	_	Stormwater Drainage	32 days Tue 03/29/22													
1112		Gully Pit (GP1-GP8 & GP11-GP18)	32 days Tue 03/29/22 32 days Tue 03/29/22													
112	+	E&M works	32 days Tue 03/29/22													
113		Street Lighting (Total 6 nos.)	26 days Tue 03/29/22													
		Irrigation Water Point (WP210-WP212)	26 days Tue 03/29/22													
115												1				
115 116		Fire Hydrant Box	26 days Tue 03/29/22	Tue 05/03/2												

	Task		Summary	·	External Milestone	•	Inactive Summary	ŢŢ	Manual Summary Rollug)	Finish-only	2
Project: 19-83014 - No. 5 Intake and Cable Br Date: 23 Jan 2021	Split		Design the Commence of	· · · · · · · · · · · · · · · · · · ·	Inactive Task		Manual Task	c 3	Manual Summary		Progress	
Rev. 2(a) - Combined L12 Area (Draft)	Milestone	•	External Tasks		Inactive Milestone	\$	Duration-only		Start-only	C	Deadline	Ŷ
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Project: Lamma Power Station Extension - Civil and Building Works for Unit L11

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Notes:

Year of Record: 2018, 2019, 2020 & 2021

MM.YYYY	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of Non-inert C&D Materials Generated Monthly					
	Exc	avated Mate	erials		Non	excavated Ma	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)
Jul 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2018	3160.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2018 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	8.87 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 Dec 2019	0.00	0.00	0.00	0.00	0.00	0.00 10226.24	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.87 18.19
Jan 2020	0.00	0.00	0.00	0.00	0.00	7981.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.89
Feb 2020	0.00	0.00	0.00	0.00	0.00	8782.98	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Mar 2020	0.00	0.00	0.00	0.00	0.00	20252.12	0.00	0.00	0.00	0.00	0.000	0.00	0.00	78.96
Apr 2020	0.00	0.00	0.00	0.00	0.00	12976.86	0.00	0.00	8.30	0.00	0.000	0.00	0.00	68.75
May 2020	0.00	0.00	0.00	0.00	0.00	20203.01	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00
Jun 2020	0.00	0.00	0.00	0.00	0.00	28030.33	0.00	0.00	0.00	0.00	0.000	0.00	0.00	58.49
Jul 2020	0.00	0.00	0.00	0.00	0.00	12481.37	0.00	0.00	0.00	0.00	0.000	0.00	0.00	33.88
Aug 2020	0.00	0.00	0.00	0.00	0.00	11179.56	0.00	0.00	0.00	0.00	0.000	0.00	0.60	73.73
Sep 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.53	0.00	0.286	0.00	0.00	64.93
Oct 2020 Nov 2020	0.00	0.00	0.00	0.00	0.00	10762.20	0.00	0.00	7.12 16.46	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	16.46	0.00	0.000	0.00	0.20	61.21 59.98
Jan 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	59.96
Feb 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	44.94
Mar 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	34.57
Apr 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	30.92
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	942.77

Total Inert C&D Waste Materials	Non-inert C&D Materials							
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste					
146035.98 tonnes	75.68 tonnes	942.77 tonnes	2000 Liters					

 Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, were generated from the Project, of which
 148035.91
 146035.92
 tonnes of inert C&D material

 3160.23
 tonnes were fissued as public fill to Fill Banks / Sorting Facilities.
 Sorting Facilities.
 146035.92
 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.

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 CAB materials that are specified in the Contract to be imported for use at the Site.
 Plastics refer to plastic bottles' containers, plastic/ foam from packaging material.
 Brown concrete for recycling into aggregates.

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 Ca	&D Material	s Generated	Monthly
	Exc	avated Mate	erials		Non-e	xcavated M	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in L)	(in '000kg)
Nov 2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dec 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.35
Apr 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.61
May 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.39
Jun 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.03
Jul 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.32
Aug 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2600	10.38
Sep 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.20
Oct 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.02
Nov 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2400	26.18
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38
Jan 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.65
Feb 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.40
Mar 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.43
Apr 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2400	20.24
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	7400	200.58

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	200.58 tonnes	7400 Liters					

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

 were generated from the Project, of which
 0
 tonnes were resused in this and other contracts, and the remaining
 0.00
 tonnes were resused in this and other contracts, and the remaining

 0.00
 tonnes were reposed in Public Fill and Sorting Facilities.
 Facilities.
 Facilities.
 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

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

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

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

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 Quant	ities of Inert (C&D Materia	Is Generated	Monthly		Actual Quantities of Non-inert C&D Materials Generated Monthly					
	Exc	avated Mate	erials		Non	-excavated Ma	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Reused in the Contract	Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2021	0.00	0.00	21020.16	0.00	0.00	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00	0.00
Feb 2021	0.00	0.00	18083.97	0.00	0.00	0.00	0.00	0.00	18.25	0.00	0.25	0.00	0.00	0.00
Mar 2021	0.00	0.00	9048.21 3205.15	0.00	0.00	0.00	0.00	0.00	7.69 4.68	0.00	0.00	0.00	0.00	2.61 14.45
Apr 2021	0.00	0.00	3205.15	0.00	0.00	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00	14.45
-														
Total	0.00	0.00	51357.49	0.00	0.00	0.00	0.00	0.00	39.44	0.00	0.25	0.00	0.00	17.06

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				
51357.49 tonnes	39.69 tonnes	17.06 tonnes	0 Liters				

 Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
 51357.49
 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) 4680 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

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

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

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

(5) Broken concrete for recycling into aggregates.

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

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2020 & 2021

MM.YYYY		Ac	tual Quant	ities of Inert (C&D Materia	Is Generated	Monthly		Actual Quantities of Non-inert C&D Materials Generated Monthly					
	Exc	avated Mate	erials		Non	-excavated Ma	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)
Oct 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2020 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
	0.00	0.00		0.00	0.00	0.00	0.00	0.00	4.21		0.00		0.00	
Jan 2021 Feb 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.49
Apr 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.85
701 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.60	12.34

Total Inert C&D Waste Materia	s	Non-inert C&D Materials						
Generated		C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
0.00 tonnes		4.21 tonnes	12.34 tonnes	600 Liters				

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

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

 0.00
 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
 - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.

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

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

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

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

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

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

(5) Broken concrete for recycling into aggregates.

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