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



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

November 2019

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



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

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	Monthly EM&A Report
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EXECUTIVE SUMMARY

This is the 115th 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 November 2019.

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) is planned for commercial operation in early 2020 and the associated construction work commenced in February 2016. The Gas-in and Synchronization for L10 are planned in mid-September and mid-October 2019 respectively to facilitate commissioning activities.

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 L10 Civil and Building Works	Main Station Building, Urea Plant and Store Area (trench excavation and backfilling, road base and paving works), and cable trench
Unit L10 Mechanical Erection	Condenser installation, HRSG installation and turbine block installation
Unit L10 Electrical, Instrumentation & Control Erection	Cable installation
Unit L11 Civil and Building Works	275kV Station Building Extension works, Main Building Station, CW pipe installation, installation of columns and beams, Site formation works and pipe jacking works
Unit L11 Mechanical Erection	Condenser installation, HRSG installation and turbine block installation
Unit L11 Electrical, Instrumentation & Control Erection	Cable installation

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

Unit L12 Foundation Works	Bored Pile Work and Pre-drilling Work
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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

Construction work for Lamma Extension was carried out during the restricted hours including evening-time, holidays and night-time under valid Construction Noise Permit. 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 29/11/2019. EPD inspected the Lamma Extension Construction Site. 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/C	18/05/05	-	HK Electric	18/05/05
Construction Noise Permit	GW-RS0531-19	01/07/19	31/12/19	Contractor	19/06/19
Construction Noise Permit	GW-RS0809-19	15/09/19	14/03/20	Contractor	11/09/19
Construction Noise Permit	GW-RS0383-19	06/05/19	01/11/19	Contractor	02/05/19
Construction Noise Permit	GW-RS0930-19	02/11/19	01/05/20	Contractor	22/10/19
Construction Noise Permit	PP-RS0013-19	08/08/19	30/01/20	Contractor	06/08/19
WPCO Discharge Licence	WT00027316-2017	01/03/17	31/03/22	Contractor	01/03/17
WPCO Discharge Licence	WT00034006-2019	08/08/19	31/08/24	Contractor	22/08/19
WPCO Discharge Licence	WT00034368-2019	11/09/19	30/09/24	Contractor	11/09/19
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Contractor	22/02/16
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05		Contractor	17/03/05

Description	Permit No.	Valid Period		Issued To	Date of
		From	То		Issuance
Waste Disposal	Account No.:	06/10/16	-	Contractor	06/12/16
Billing Account	7026035				
Waste Disposal	Account No.:	28/12/16	-	Contractor	28/12/16
Billing Account	7026793				
Waste Disposal	Account No.:	20/04/17	-	Contractor	20/04/17
Billing Account	7027632				
Waste Disposal	Account No.:	21/06/18	-	Contractor	21/06/18
Billing Account	7031135				
Waste Disposal	Account No.:	24/04/17	-	Contractor	24/04/17
Billing Account	7027672				
Waste Disposal	Account No.:	01/04/19	-	Contractor	01/04/19
Billing Account	7033637				

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

One complaint against noise generated from the construction activities was received in the reporting month. An investigation was carried out in accordance with the action plan stipulated in the EM&A Manual. Yet nothing abnormal was identified and the case was closed.

Future Key Issues

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

Unit L10 Civil and Building Works

- to continue monitoring the noise level during construction;
- 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 L10 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 L10 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 L11 Civil and Building Works

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

Unit L11 Mechanical Erection

- to continue 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 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 Foundation Works

- to continue monitoring the noise level during construction and to ensure compliance with the CNP's already obtained;
- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary;
- to treat wastewater in sedimentation pit and tanks for reuse on water spraying and to ensure compliance in accordance with the WPCO discharge licence already obtained.

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/C, 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 November 2019.

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 L10 civil and building works were carried out for Main Station Building, Urea Plant and Store Area (trench excavation and backfilling, road base and paving works), and for Cable Trench. Construction activities for Unit L10 mechanical erection were condenser installation, HRSG installation and turbine block installation. Construction activity for Unit L10 electrical, instrumentation & control erection was cable installation. Construction activities for Unit L11 civil and building works were, 275kV station building extension works,

Main Station Building, CW pipe installation, installation of columns and beams, site formation works and pipe jacking works. 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 foundation works were bored pile work and pre-drilling work. 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.

Item	Construction Activities	Environmental Mitigation Measures
Unit L1	0 Civil and Building	Works
1.	Main Station Building, Urea Plant and Store Area (trench excavation and backfilling, road base and paving works)	 Air All regulated machine attached with valid exception/approval NRMM labels. Water truck was used for water spraying of the haul road. Water spraying for concrete breaking of pile head. Excavated slope covered with cement or tarpaulin. Backfilled surface was compacted. Wheel washing facilities was provided. Provision of shelter with three sides and top cover for fendolite mixer and fendolite stock should be covered. Noise General noise mitigation measures employed at all work sites throughout the construction phase. CNP should be applied if works to be conduct during restricted hours.
		 Wastewater Wastewater should be treated in sedimentation pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. Waste Management Excavated soil was temporary stored for backfilling. Scrape metal will be recycled. Timber will be reused as much as possible.

 Table 1.1
 Construction Activities and Their Corresponding Environmental Mitigation Measures

Item	Construction Activities	Environmental Mitigation Measures
2.	Cable Trench	 Air All regulated machine attached with valid exception/approval NRMM labels. Water spraying for road surface breaking Soil stock covered with tarpaulin. Wastewater Wastewater Wastewater should be treated in sedimentation pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit
Unit I 10) Mechanical Erectic	 and tanks must be removed regularly. Waste Management Excavated soil was temporary stored for backfilling. Scrape metal will be recycled.
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 L10) 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. Weste Management
		 Waste Management Waste Management Plan submitted and implemented.

Item	Construction Activities	Environmental Mitigation Measures
Unit L1	1 Civil and Building	Works
5.	275kV Station Building Extension Works	 Air All regulated machine attached with valid exception/approval NRMM labels. Wheel washing facility was provided. Noise Works conducted during holiday should comply with the valid CNP. Wastewater Wastewater should be treated in desilting pit and tanks for reuse on water spraying.
		 Waste Management Scrape metal will be recycled. Timber will be reused as much as possible. Chemical waste should be collected by licensed collector
6.	Main Station Building, CW Pipe Installation, Installation of Columns and Beams, Site Formation Works and Pipe Jacking Works (Set up of jacking and receiving pit)	 Air All regulated machine attached with valid exception/approval NRMM labels. Water truck and water sprinkler system was used. Water spraying for concrete breaking of pile head. Excavated slope and soil stock covered with cement or tarpaulin. Wheel washing facility was provided. Noise Works conducted during holiday should comply with the valid CNP. Wastewater Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit
		 Waste Management Excavated soil was temporary stored for backfilling. Scrape metal will be recycled. Timber will be reused as much as possible.

Item	Construction Activities	Environmental Mitigation Measures
Unit L11	Mechanical Erection	n
7	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 L11	l Electrical, Instrume	entation & Control Erection
8	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 L12	2 Foundation Works	- waste Wanagement i fan submitted and implemented.
9.	Bored Pile Work	 Air Dust suppression in the main haul road. Using ULSD for PMEs. Cover dusty stockpile with tarpaulin and water spraying. Noise General noise mitigation measure employed at all
		 work sites throughout the construction phase. Routine checking should be carried out to ensure the requirements as stipulated in the CNP have been fulfilled.
		 Wastewater Wastewater should be pumped to the sedimentation ponds for desilting process. After that, waste water will be re-used for construction activities or pumped

Item	Construction Activities	Environmental Mitigation Measures
		for storage.
		Waste Management
		- Waste Management Plan submitted and implemented
10.	Pre-drilling Work	 Noise General noise mitigation measure employed at all work sites throughout the construction phase. Routine checking should be carried out to ensure the requirements as stipulated in the CNP have been fulfilled.
		 Wastewater All wastewater will be re-used for construction activities or pumped for storage. Waste Management Waste Management Plan submitted and implemented.

1.4 Summary of EM&A Requirements

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

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

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

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

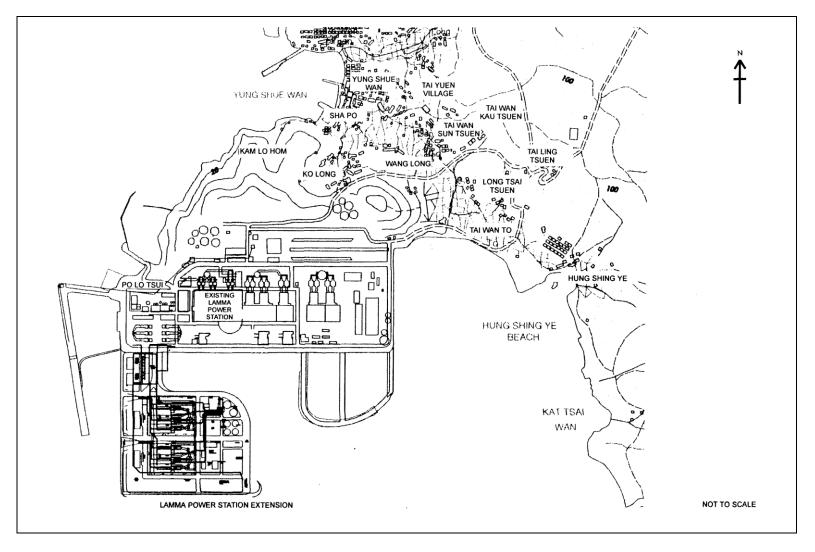


Figure 1.1 Layout of Work Site

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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
<i>1-hour sampling:</i> Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific

2.4 Monitoring Parameters, Frequency and Duration

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

Monitoring Stations	Parameter	Duration	Frequency
AM1	1-hour TSP	1	3 hourly samples every 6 days
Alvii	24-hour TSP	24	Once every 6 days
	1-hour TSP	1	3 hourly samples every 6 days
AM2	24-hour TSP	24	Once every 6 days
AM3	1-hour TSP	1	3 hourly samples every 6 days
AM5	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.

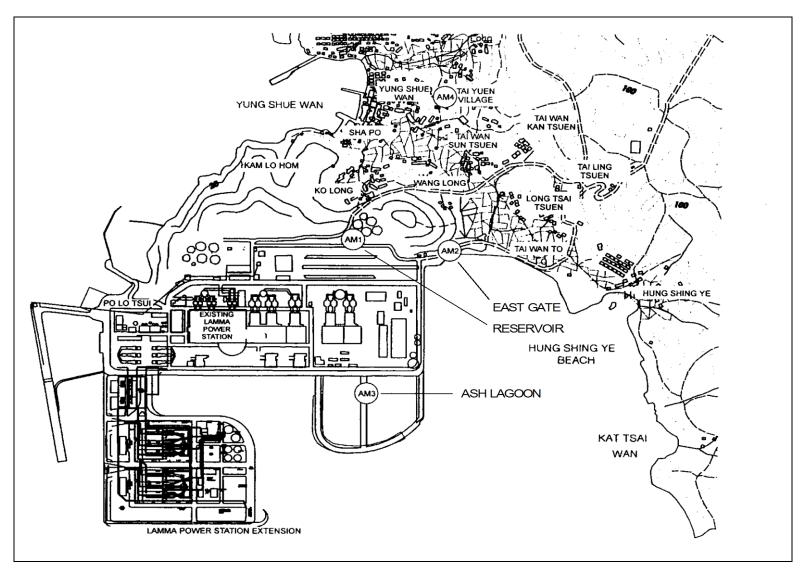


Figure 2.1 Location of Air Quality Monitoring Stations

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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 were carried out in July and September 2019 respectively. The next calibrations for the corresponding noise monitoring stations were scheduled in January and March 2020 respectively.

3.6 Results and Observations

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

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

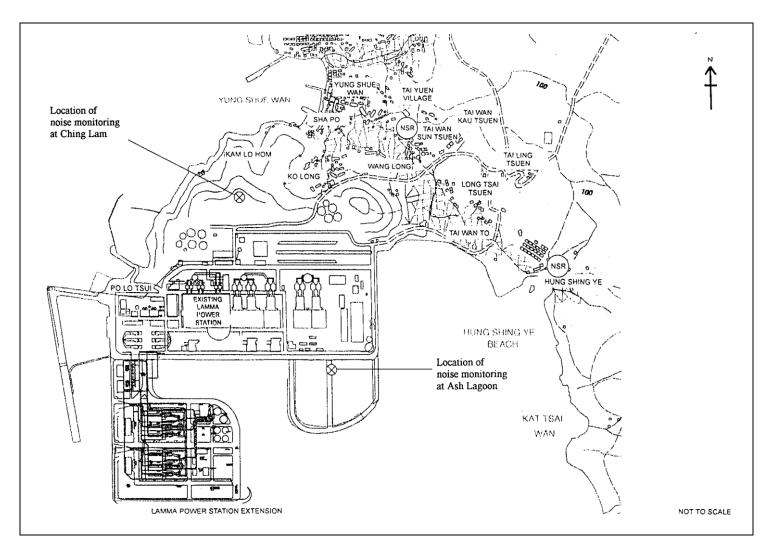


Figure 3.1 Location of Noise Monitoring Stations

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

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

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Noise

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

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status	
	Action Limit Level Level		and Results			
Air						
1	Ambient TSP (24-hour)	01/11/19- 30/11/19	0	0		
2	Ambient TSP (1-hour)	01/11/19- 30/11/19	0	0		
Noise	·	•				
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/11/19- 30/11/19	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 November 2019 are shown in Table 4.2.

Table 4.2	Estimated Amounts of Waste in November 2019

	Non-inert C&D Materials		
Total Inert C&D Waste Materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste

8,652.22 Tonnes	0 Tonnes	42.96 Tonnes	400.6 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 29/11/2019. EPD inspected the Lamma Extension Construction Site. 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/C	18/05/05	-	The whole construction work site	Valid
Construction Noise Permit	GW-RS0531-19	01/07/19	31/12/19	Power Block Facilities works for Unit L10. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0809-19	15/09/19	14/03/20	Civil and Building Works for Unit L11. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0383-19	06/05/19	01/11/19	Foundation work for Unit L12. Operation of PME during restricted hours.	Valid up to 01/11/2019. Superseded by CNP no. GW- RS0930-19 on 02/11/2019.
Construction Noise Permit	GW-RS0930-19	02/11/19	01/05/20	Foundation work for Unit L12. Operation of PME during restricted hours.	Valid
Construction Noise Permit	PP-RS0013-19	08/08/19	30/01/20	Percussive piling for foundation work of Unit L12.	Valid

Description	Permit No.	Valid Period		Highlights	Status	
-		From To			1	
WPCO Discharge Licence#	WT00027316- 2017	01/03/17	31/03/22	Civil and Building Works for Unit L10	Valid	
WPCO Discharge Licence##	WT00034006- 2019	08/08/19	31/08/24	Civil and Building Works for Unit L11	Valid	
WPCO Discharge Licence	WT00034368- 2019	11/09/19	30/09/24	Foundation Works for L12	Valid	
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Civil and Building Works for Unit L10	Valid	
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05		E&M Equipment Installation and Maintenance	Valid	
Waste Disposal Billing Account	Account No.: 7026035	06/10/16	-	Civil and Building Works for Unit L10	Valid	
Waste Disposal Billing Account	Account No.: 7026793	28/12/16	-	Foundation works for Unit L11	Valid	
Waste Disposal Billing Account	Account No.: 7027632	20/04/17	-	E&M Erection of Power Block Facilities – L10	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.: 7033637	01/04/19	-	Foundation works for Unit L12	Valid	

Notes: # - No discharge of effluent was carried out in the reporting period.

- Water quality monitoring was carried out in November 2019 and the result of which had been reported under a separate cover by the contractor.

4.6 Implementation Status of Environmental Mitigation Measures

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

4.7 Implementation Status of Event/Action Plans

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

4.8 Implementation Status of Environmental Complaint Handling Procedures

In November 2019, one complaint against the construction activities was received as summarized in Table 4.4.

Case Reference /	Descriptions /Actions Taken	Conclusion /
Date, Time Received /		Status
Date, Time Concerned		
Ref.:	EPD phoned HK Electric on 27/11/2019	Nothing
LMX/C/1901	(with a follow-up letter on 28/11/2019)	abnormal was
	referring a complaint against the	identified.
Received:	construction noise generated from the	
27/11/2019 pm	Lamma Extension site during the concerned periods.	Case closed.
Concerned:		
21&23/11/2019,	The ET Leader and Engineer had initiated	
1:00-2:00 am	an investigation in accordance with the	
	action plan stipulated in the EM&A	
	Manual. The investigation result revealed	
	that during the concerned periods, there	
	was no noise exceedance or any abnormal	
	site activity, and all construction works	
	were carried out in accordance with the	
	Construction Noise Permits in force.	
	Nonetheless, the Contractors had been	
	reminded of their obligations to follow the	
	statutory requirements and the construction works would continue to be monitored	
	under the EM&A program.	
	The IEC and EPD had been informed of	
	the findings accordingly.	

Table 4.4	Environmental Complaints Received in November 2019
-----------	--

Table 4.5	Outstanding Environmental Complaints Carried Over
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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 L10 Civil and Building Works

Noise Impact

- To continue monitoring the noise level during construction.
- 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 L10 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 L10 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 L11 Civil and Building Works

Noise Impact

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

Noise Impact

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

Air Impact

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

Water Impact

• To treat wastewater in sedimentation pit and tanks for reuse on water spraying and to ensure compliance in accordance with the WPCO discharge licence already obtained.

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. One complaint against noise from the construction activities was received in the reporting month but nothing abnormal was identified. No prosecution was received for this Project in the reporting period.

The environmental performance of the Project was generally satisfactory.

Appendix A Organization Chart

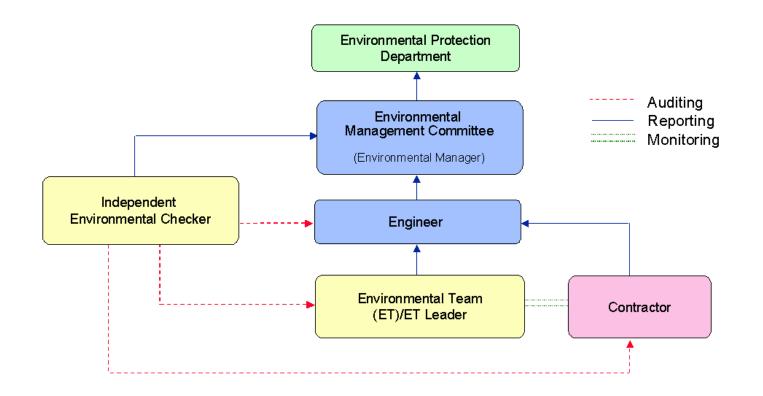


Figure A.1 Organisation of EM&A Programme at Construction Phase

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 Table
--

	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
2/ November /2019 1500hr to 1800hr
8/ November /2019 1500hr to 1800hr
14/ November /2019 1500hr to 1800hr
20/ November /2019 1500hr to 1800hr
26/ November /2019 1500hr to 1800hr
2/ December /2019 1500hr to 1800hr
8/ December /2019 1500hr to 1800hr
14/ December /2019 1500hr to 1800hr
20/ December /2019 1500hr to 1800hr
26/ December /2019 1500hr to 1800hr
1/January/2020 1500hr to 1800hr
7/January/2020 1500hr to 1800hr
13/January/2020 1500hr to 1800hr
19/January/2020 1500hr to 1800hr
25/January/2020 1500hr to 1800hr
31/January/2020 1500hr to 1800hr
6/February/2020 1500hr to 1800hr
12/February/2020 1500hr to 1800hr
18/February/2020 1500hr to 1800hr
24/February/2020 1500hr to 1800hr

Table C.1Monitoring schedule for 24hr and 1hr TSP monitoring for Lamma
Extension Construction (November 2019 to February 2020)

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: November 2019

24 hour TSP Measurement:-

		TSP concentration (μ 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. (%)
2/11/2019	47	46	39	64	**	**	74
8/11/2019	52	66	57	61	**	**	51
14/11/2019	70	78	68	63	**	**	64
20/11/2019	61	66	53	51	**	**	66
26/11/2019	55	60	47	49	**	**	76

** Wind data not available from Hong Kong Observatory

1 hour TSP Measurement:-

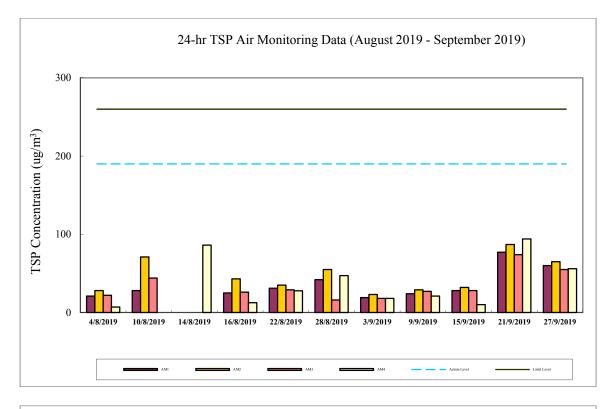
		TSP concentration ($\mu g/m^3$)			
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	
2/11/2010	15:00 - 15:59	54	47	42	
2/11/2019	16:00 - 16:59	47	42	44	
	17:00 - 17:59	54	50	45	
0/11/2010	15:00 - 15:59	55	68	54	
8/11/2019	16:00 - 16:59	52	73	56	
	17:00 - 17:59	50	57	54	
1.4/11/2010	15:00 - 15:59	79	82	72	
14/11/2019	16:00 - 16:59	78	82	69	
	17:00 - 17:59	77	78	71	
20/11/2010	15:00 - 15:59	70	62	57	
20/11/2019	16:00 - 16:59	56	61	46	
	17:00 - 17:59	53	64	42	
26/11/2010	15:00 - 15:59	56	62	48	
26/11/2019	16:00 - 16:59	52	59	44	
	17:00 - 17:59	61	56	42	

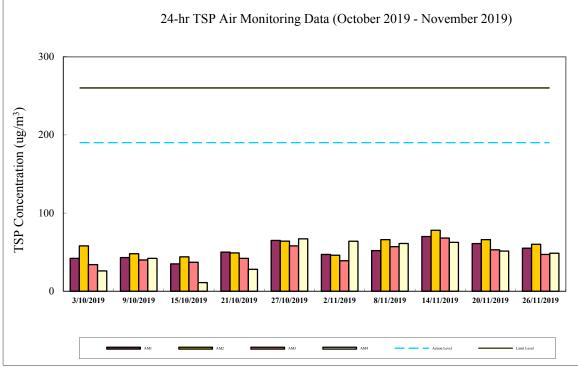
	1-hr TSP	24-hr TSP
	$(\mu g/m^3)$	$(\mu g/m^3)$
Action Level	340	190
Limit Level	500	260

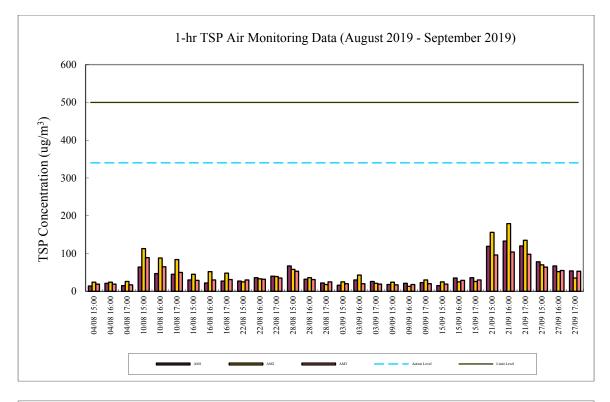
Calibration: Calibration details are shown in appendix F.

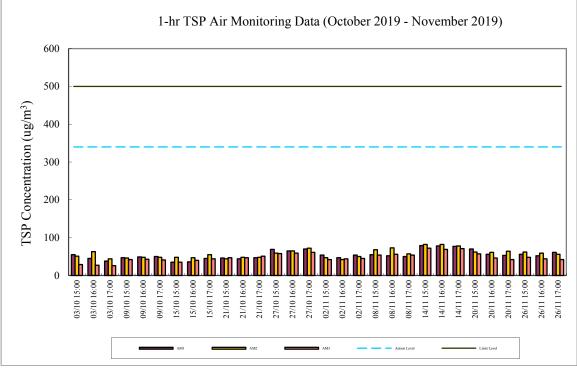
Equipment used:

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









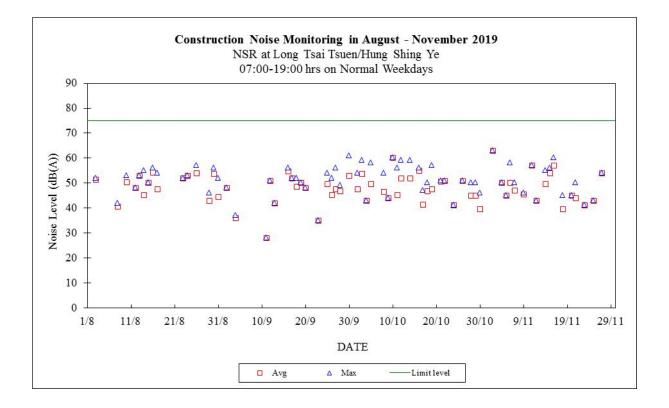
Appendix E Cont	inuous Noise Monitoring Results for November 2019
Site:	Lamma Power Station Extension Construction
Measurement Location:	Ash Lagoon and Ching Lam
Measurement Parameter:	30-min Leq (07:00-19:00 hrs on normal weekdays)
	5-min Leq (07:00-23:00 hrs on holidays and
	19:00-23:00 hrs on all 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 - 21/06/2018 (Ash Lagoon)
	19/08/2019 (Ching Lam)
	B&K 4231 calibrator - 02/10/2019

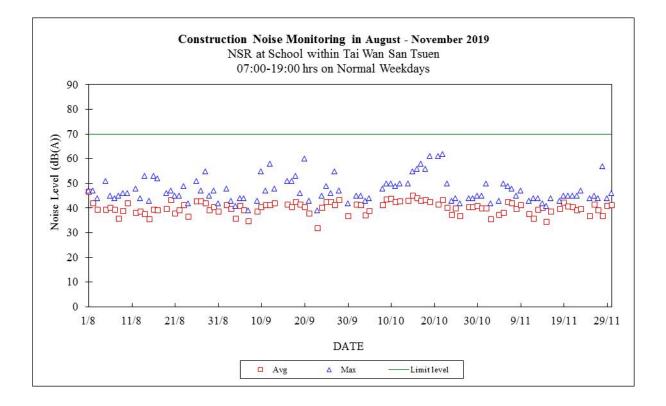
		1			Calcula	atod	
		Calcula	ated		Noise	aceu	
		Noise			Level a	. +	
		Level a	at	T 4 m 4 F			T i mi b
		NSR at	Long	Limit	NSR at	une	Limit
Date	Time	Tsai		Noise	school	- ·	Noise
		Tsuen/H	Hung	Level	within		Level
		Shing Y	-	(dB(A))	Wan Sar	1	(dB(A))
		(dB(A))			Tsuen		
					(dB(A)		_
		Max	Avg		Max	Avg	
01/11/2019	07:00-19:00			75	50	40	70
01/11/2019	19:00-23:00			60	44	40	60
01/11/2019	23:00-07:00	40	40	45	45	39	45
02/11/2019	07:00-19:00			75	42	35	70
02/11/2019	19:00-23:00			60	43	41	60
02/11/2019	23:00-07:00			45	42	39	45
03/11/2019	07:00-23:00	59	46	60	44	38	60
03/11/2019	23:00-07:00	45	38	45	45	38	45
04/11/2019	07:00-19:00	50	50	75	43	37	70
04/11/2019	19:00-23:00			60	48	40	60
04/11/2019	23:00-07:00	43	41	45	44	39	45
05/11/2019	07:00-19:00	45	45	75	50	38	70
05/11/2019	19:00-23:00			60	45	40	60
05/11/2019	23:00-07:00	45	42	45	43	39	45
06/11/2019	07:00-19:00	58	50	75	49	42	70
06/11/2019	19:00-23:00			60	44	41	60
06/11/2019	23:00-07:00	45	42	45	45	39	45
	07:00-19:00	50	42	75	43	42	70
07/11/2019							60
07/11/2019	19:00-23:00			60	48	40	
07/11/2019	23:00-07:00	45	40	45	44	39	45
08/11/2019	07:00-19:00			75	45	40	70
08/11/2019	19:00-23:00			60	51	42	60
08/11/2019	23:00-07:00	38	38	45	45	40	45
09/11/2019	07:00-19:00	46	46	75	47	41	70
09/11/2019	19:00-23:00	38	38	60	41	38	60
09/11/2019	23:00-07:00	45	41	45	41	35	45
10/11/2019	07:00-23:00	48	44	60	45	39	60
10/11/2019	23:00-07:00			45	43	37	45
11/11/2019	07:00-19:00	57	57	75	43	37	70
11/11/2019	19:00-23:00			60	44	41	60
11/11/2019	23:00-07:00			45	43	39	45
12/11/2019	07:00-19:00	43	43	75	44	36	70
12/11/2019	19:00-23:00			60	43	40	60
12/11/2019	23:00-07:00			45	44	40	45
13/11/2019	07:00-19:00			75	44	39	70
13/11/2019	19:00-23:00			60	45	38	60
10/11/2019				00	L I J	50	00

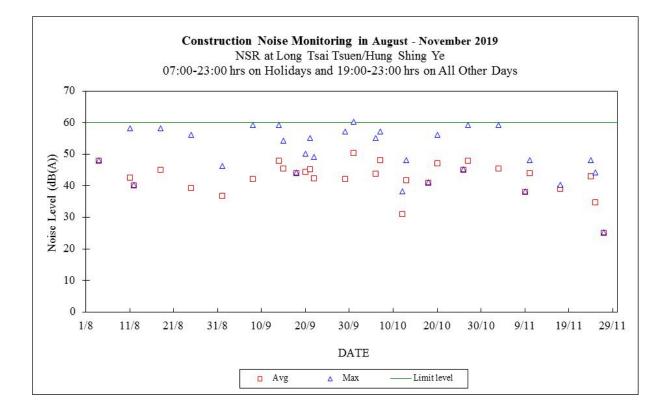
13/11/2019	23:00-07:00			45	43	40	45
14/11/2019	07:00-19:00	55	50	75	42	40	70
14/11/2019	19:00-23:00			60	41	39	60
14/11/2019	23:00-07:00	42	40	45	44	40	45
15/11/2019	07:00-19:00	56	54	75	41	34	70
15/11/2019	19:00-23:00			60	42	39	60
15/11/2019	23:00-07:00			45	45	39	45
16/11/2019	07:00-19:00	60	57	75	44	39	70
16/11/2019	19:00-23:00			60	44	41	60
16/11/2019	23:00-07:00			45	44	35	45
17/11/2019	07:00-23:00	40	39	60	44	40	60
17/11/2019	23:00-07:00	44	41	45	44	40	45
18/11/2019	07:00-19:00	45	40	75	43	40	70
18/11/2019	19:00-23:00			60	43	41	60
18/11/2019	23:00-07:00	45	38	45	45	42	45
19/11/2019	07:00-19:00			75	45	42	70
19/11/2019	19:00-23:00			60	47	42	60
19/11/2019	23:00-07:00	44	42	45	44	40	45
20/11/2019	07:00-19:00	45	45	75	45	41	70
20/11/2019	19:00-23:00			60	45	42	60
20/11/2019	23:00-07:00	45	43	45	44	41	45
21/11/2019	07:00-19:00	50	44	75	45	40	70
21/11/2019	19:00-23:00			60	46	39	60
21/11/2019	23:00-07:00	45	44	45	43	40	45
22/11/2019	07:00-19:00			75	45	39	70
22/11/2019	19:00-23:00			60	43	38	60
22/11/2019	23:00-07:00			45	44	39	45
23/11/2019	07:00-19:00	41	41	75	47	40	70
23/11/2019	19:00-23:00			60	48	39	60
23/11/2019	23:00-07:00	45	42	45	41	35	45
24/11/2019	07:00-23:00	48	43	60	45	39	60
24/11/2019	23:00-07:00	44	42	45	43	37	45
25/11/2019	07:00-19:00	43	43	75	44	37	70
25/11/2019	19:00-23:00	44	35	60	46	37	60
25/11/2019	23:00-07:00	44	41	45	43	40	45
26/11/2019	07:00-19:00			75	45	41	70
26/11/2019	19:00-23:00			60	42	37	60
26/11/2019	23:00-07:00	44	40	45	45	39	45
27/11/2019	07:00-19:00	54	54	75	44	39	70
27/11/2019	19:00-23:00	25	25	60	45	38	60
27/11/2019	23:00-07:00	44	40	45	44	41	45
28/11/2019	07:00-19:00			75	57	37	70
28/11/2019	19:00-23:00			60	42	39	60
28/11/2019	23:00-07:00	45	41	45	43	39	45
29/11/2019	07:00-19:00			75	44	41	70
29/11/2019	19:00-23:00			60	44	42	60
29/11/2019	23:00-07:00			45	45	42	45
30/11/2019	07:00-19:00			75	46	41	70
30/11/2019	19:00-23:00			60	46	42	60
30/11/2019	23:00-07:00	36	34	45	44	38	45

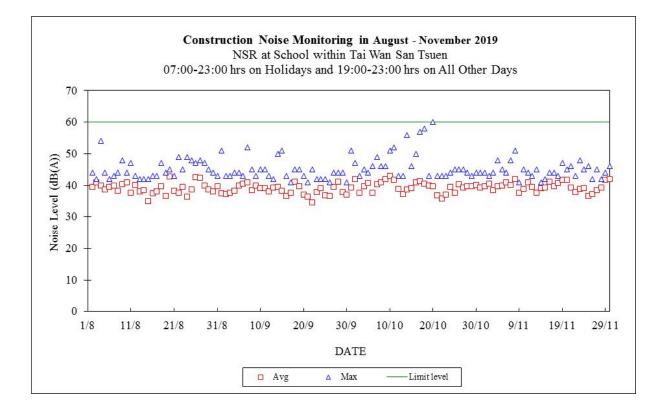
Note:

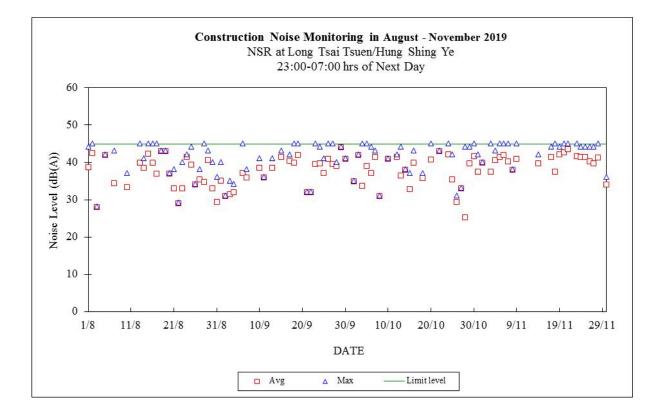
- a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.
- b. Continuous noise monitoring was also carried out at holidays & eveningtime (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time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

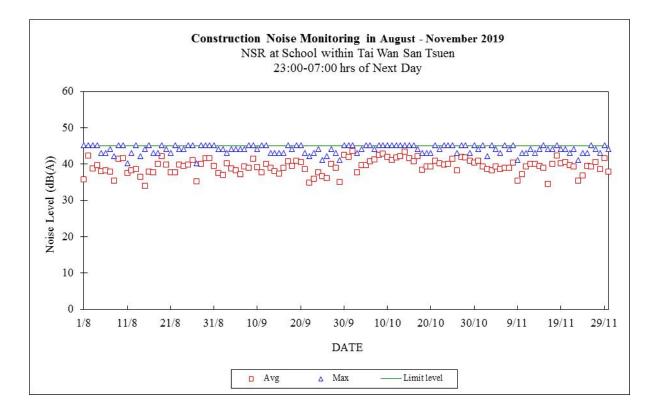












Appendix F

The QA/QC Procedures and Results

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

Date	Location:	Ash Lagoon	Location: (Ching Lam
	Calibration Results	Deviation from	Calibration Results	Deviation from
		Reference (dB)		Reference (dB)
01/11/2019	Passed	0.17	Passed	-0.02
02/11/2019	Passed	0.17	Passed	-0.04
03/11/2019	Passed	0.14	Passed	-0.05
04/11/2019	Passed	0.12	Passed	-0.06
05/11/2019	Passed	0.12	Passed	-0.10
06/11/2019	Passed	0.12	Passed	-0.06
07/11/2019	Passed	0.14	Passed	-0.06
08/11/2019	Passed	0.12	Passed	-0.05
09/11/2019	Passed	0.10	Passed	-0.06
10/11/2019	Passed	0.11	Passed	-0.10
11/11/2019	Passed	0.12	Passed	-0.07
12/11/2019	Passed	0.12	Passed	-0.04
13/11/2019	Passed	0.12	Passed	-0.06
14/11/2019	Passed	0.10	Passed	-0.07
15/11/2019	Passed	0.11	Passed	-0.08
16/11/2019	Passed	0.12	Passed	-0.09
17/11/2019	Passed	0.12	Passed	-0.07
18/11/2019	Passed	0.14	Passed	-0.05
19/11/2019	Passed	0.10	Passed	-0.06
20/11/2019	Passed	0.11	Passed	-0.07
21/11/2019	Passed	0.08	Passed	-0.09
22/11/2019	Passed	0.10	Passed	-0.08
23/11/2019	Passed	0.11	Passed	-0.05
24/11/2019	Passed	0.13	Passed	-0.05
25/11/2019	Passed	0.09	Passed	-0.03
26/11/2019	Passed	0.11	Passed	-0.02
27/11/2019	Passed	0.12	Passed	-0.03
28/11/2019	Passed	0.11	Passed	-0.11
29/11/2019	Passed	0.12	Passed	-0.07
30/11/2019	Passed	0.10	Passed	-0.09

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.

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

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
15/11/2019 / 14:00	HM Chan / TK Ku

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MQ46
New filter paper no.	MQ47

Type of filter: Glass-fibre

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

Before:	<u>5.016 Sl/min</u>
After:	<u>5.016 Sl/min</u>

II. General Services

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

<u>Remarks</u>

<u>N/A</u>

Conducted by: <u>HM Chan / TK Ku</u>

Checked by: SM Hon

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

Month: November	Year: 2019							
Reservoir (AM1)								
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)				
02/11/2019	265.144	4	2.92	13.32				
08/11/2019	269.136	4	2.94	13.39				
14/11/2019	268.324	4	2.95	13.41				
20/11/2019	267.384	4	2.96	13.48				
26/11/2019	266.752	4	2.98	13.56				

East Gate (AM2)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
02/11/2019	253.770	4	2.98	13.58	
08/11/2019	252.923	4	2.99	13.63	
14/11/2019	252.203	4	2.78	13.73	
20/11/2019	256.740	4	3.04	13.84	
26/11/2019	256.132	4	3.04	13.85	

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
02/11/2019	255.427	4	3.00	13.67	
08/11/2019	254.599	4	3.00	13.67	
14/11/2019	253.926	4	3.00	13.67	
20/11/2019	253.172	4	3.00	13.67	
26/11/2019	255.935	4	3.00	13.67	

	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	1	1	1					

Remarks:

Prepared by: Chris Chan

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.	ne EPD of the exceedance, as soon as	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 responsible and instruct the	If the exceedance continues, consider what portion of the work is responsible
	Increase manual monitoring frequency to assess efficacy of remedial measures.		Contractor to stop the portion of work until the exceedance is abated	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	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;	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;
consecutive	Inform Contractor, IEC and EPD;	Advise Engineer on the effectiveness of the	Request Contractor to critically review the working methods;	
sampling day	Check monitoring data, all plant, equipment and Contractor's	proposed remedial measures Verify the implementation of the remedial measures	Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine works until no exceedance of the Limit Level.	
	working methods;			Propose mitigation measures to Engineer
	Discuss mitigation measure with Engineer and Contractor;			within 3 working days and discuss with Engineer;
	Ensure mitigation measures are implemented;			Implement the agreed mitigation measures
	Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.			As directed by the Engineer, to slow down or to stop all or part of the marine work

Appendix H Summary of Site Audit Findings

L10 Civil & Building Superstructure Work

Dates of Inspection: 05/11/2019, 12/11/2019, 19/11/2019 and 26/11/2019

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

L10 Mechanical, Electrical, Instrumentation & Control Erection Work

Dates of Inspection: 07/11/2019, 14/11/2019, 21/11/2019 and 28/11/2019.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

L11 Civil & Building Superstructure Work

Dates of Inspection: 05/11/2019, 12/11/2019, 19/11/2019 and 26/11/2019.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

L11 Mechanical, Electrical, Instrumentation & Control Erection Work

Dates of Inspection: 21/11/2019 and 28/11/2019.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

L12 Piling Foundation Work

Dates of Inspection: 05/11/2019, 12/11/2019, 19/11/2019 and 26/11/2019

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

Summary of EMIS

Power Station – (Part B of EIA Report)

Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	• the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	С
	• the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	С
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	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
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
B6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented: **	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	

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

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

EM&A Log Ref.	Mitigation Measures	Implementation Status
G1	All percussive piling works shall be conducted on reclaimed land to avoid noise impact to marine mammals**	N/A
G2	All construction related vessels shall approach the extension site from the north and via the East Lamma Channel to avoid disturbance to the finless porpoise**	N/A
G3	Rubble mound seawall to the south and west edges of the reclamation to enhance recolonisation of marine organisms**	N/A
G4	Artificial Reefs of a volume not less than 400 m ³ shall be deployed in a location to be decided upon consultation with the Director of Agriculture and Fisheries to serve the purpose of an Additional Habitat Enhancement Measure.**	N/A
	FISHERIES	
H1	No Fisheries-specific mitigation measures are required during the construction phase.	N/A
	RISK ASSESSMENT	
I1	No risk mitigation measures are required during the construction phase.	N/A

Remarks:

**	-	No dredging and reclamation work would be involved for L10 & L11 construction
С	-	Compliance with mitigation measure
NC	-	Non-compliance with mitigation measure
N/A	-	Not Applicable

Appendix J

16/8	002 Outstanding Work Programme			16-8002 OS Work Prog (04 Nov 19)_BC	Mor	on 4/11/1
ID	Task Name	Duration Start	Finish	December 2019 SSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTW	ebruary 2020	MTWT
1	16/8002 Unit 10 Outstanding Work Programme	368 days Sat 1/12/18	8 Fri 13/12/19	13 Dec '19		
2	Unit 10 MSB & HRSG	368 days Sat 1/12/18	8 Fri 13/12/19	13 Dec '19		
3	Superstructure	340 days Sat 1/12/18	B Fri 15/11/19			
53	External Works	15 days Fri 1/11/19	Fri 15/11/19			
54	EVA North MSB & HRSG	15 days Fri 1/11/19	Fri 15/11/19			
55	Curb surrounding Feed Water Pump	6 days Mon 4/11/1	9 Sat 9/11/19			
56	Road base near West & along cable trench	7 days Fri 1/11/19	7/11/19 Thu 7/11/19			
57	Road paving near West & along cable trench	12 days Mon 4/11/1	9 Fri 15/11/19	cable trench		
58	Conduits for streetlight and fs signal	5 days Mon 4/11/1	9 Fri 8/11/19			
59	Road base near East	2 days Sat 9/11/19	9 Sun 10/11/19			
60	Road paving near East	5 days Mon 11/11/	19 Fri 15/11/19			
61	EVA West MSB	7 days Fri 8/11/19	Thu 14/11/19			
62	Road base near South	2 days Fri 8/11/19	Sat 9/11/19			
63	Road paving	2 days Sun 10/11/1	9 Mon 11/11/1			
64	Relocate hoarding and Gate 39	3 days Tue 12/11/1	9 Thu 14/11/19			
65	EVA South MSB & HRSG	12 days Mon 4/11/1	9 Fri 15/11/19			
66	Road base near West	2 days Fri 8/11/19	Sat 9/11/19			
67	Road paving near West	2 days Sun 10/11/1	9 Mon 11/11/1			
68	Conduits for streetlight and fs signal near East	4 days Mon 4/11/1	9 Thu 7/11/19			
69	Road base near East	3 days Fri 8/11/19	Sun 10/11/19			
70	Road paving near East	3 days Mon 11/11/	19 Wed 13/11/1			
71	Extend hoarding to the East	2 days Thu 14/11/1	9 Fri 15/11/19			
72	EVA East HRSG	14 days Sat 2/11/19	9 Fri 15/11/19			
73	Surface channel outside HRSG Equipment Room	4 days Mon 4/11/1	9 Thu 7/11/19			
74	Remaining on-grade slab at HRSG	6 days Fri 8/11/19	Wed 13/11/1			
75	300mm dia. drain to new surface channel	5 days Sat 2/11/19	Wed 6/11/19			
76	New surface drain u channel	5 days Mon 4/11/1	9 Fri 8/11/19			
77	Conduits for streetlight and fs signal	3 days Wed 6/11/1	9 Fri 8/11/19			
78	Road base	2 days Sat 9/11/19	9 Sun 10/11/19			
79	Road paving	5 days Mon 11/11/	19 Fri 15/11/19			
80	Erect hoarding and gate	2 days Thu 14/11/1	9 Fri 15/11/19			
81	Installation of pole for traffic sign@EVA	8 days Wed 6/11/1	9 Wed 13/11/1			
		1				
16-80	02 OS Work Prog (04 Nov 19 Critical Split	sk Eliteration Spl	it	Milestone Summary		
				Page 1 of 2		

Appendix J

ID Task 82	Outstanding Work Programme		16-8002 OS Work Prog (04 Nov 19)_BC	Mon 4/11/1
82	k Name	Duration	Start December 2019 January 2020 SSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTFSSTWTSSTWTFSSTWTSSTWTFSSTWTSSTWSSTWTSSTWSSTWTSSTWTSSTWTSSTWTSSTWTSSTWTSSTWTSSTWS	
	Cleaning and complete remaining works inside manholes@EVA	14 days	Ved 30/10/19 Tue 12/11/19 ks inside manholes@EVA	
83	Street lighting	12 days	Mon 4/11/19 Fri 15/11/19	
84	Lift @ HRSG Installation (Temporary)	30 days	Fri 1/11/19 Sat 30/11/19 🔢 Lift @ HRSG Installation (Temporary)	
85	Statutory Submissions & Inspection (Incl. HRSG)	368 days	Sat 1/12/18 Fri 13/12/19 🗾 13 Dec '19	
	C.W. Pump, Intake and Urea Plant and Outstanding External Works	34 days	Ion 28/10/19 Sat 30/11/19 🗬 30 Nev '19	
97	C.W. Pump Area incl. Chlorination Area	18 days	Mon 4/11/19 Thu 21/11/19	
98	Conduits for streetlight and fs signal@ footpath	5 days	Mon 4/11/19 Fri 8/11/19	
99	Road Reinstatement at Demin. Plant Road	8 days	Sat 9/11/19 Sat 16/11/19 Plant Road	
100	Relocation Hoarding to middle road and return area to GEN	5 days	Sun 17/11/19 Thu 21/11/19 ing to middle road and return area to GEN	
101	Urea Plant + Middle Road	29 days	Sat 2/11/19 Sat 30/11/19 🖕 30 Nov '19	
102	Stormd drain to Gully@ MH837	6 days	Mon 4/11/19 Sat 9/11/19	
103	Storm drain MH831 to MH832	6 days	Wed 6/11/19 Mon 11/11/19	
104	FS pipes at Junction of Intake Road and Middle Road	4 days	Tue 5/11/19 Fri 8/11/19 Road	
105	New Oily Drain installation and diversion of FS & foam pipe	3 days	Sat 9/11/19 Mon 11/11/19 of FS & foam pipe	
106	Road Base@ Intake Road	3 days	Fue 12/11/19 Thu 14/11/19	
107	Paving@ Intake Road	3 days	Fri 15/11/19 Sun 17/11/19	
108	Reinstatement of irrigation pipes	3 days	Wed 6/11/19 Fri 8/11/19	
109	Ramp of Urea Shelter at North	3 days	Thu 7/11/19 Sat 9/11/19	
110	Conduits for steetlight and fs signal@ Middle Road & junction of Demin. Plant Road	14 days	Mon 4/11/19 Sun 17/11/19 fs signal @ Middle Road & junction of Demin. Plant Road	
111	Road Kerb	12 days	Sat 2/11/19 Wed 13/11/19	
112	Road Base	5 days	Thu 14/11/19 Mon 18/11/19	
113	Road Paving	8 days	Tue 19/11/19 Tue 26/11/19 Paving	
114	Installation of pole for traffic sign@EVA	3 days	Sun 24/11/19 Tue 26/11/19 attion of pole for traffic sign@EVA	
115	Erect hoarding and gate	4 days	Ved 27/11/19 Sat 30/11/19 Reference the hearding and gate	
116	Other & External works	14 days	Ion 28/10/19 Sun 10/11/19	

Appendix J

		М		
No.	Description	2019		2020
	Erection Key Date		Jan /O Jan	Feb
A	HRSG PORTION			
A-01	Install Casing (Bottom/Side/Top) with Structure			
A-02	Upper/Lower Connection Pipe			
A-03	Module Install (Bundle Tube Block)			
A-04	Down Commer Pipe			
A-05	Drum Lifting / HDR Level Adjustment			
A-06	Critical Piping/connecting piping (Main Steam, Aux, R/H, HP/LP Feed Water)			
A-07	Other piping			
A-08	Access Platform / Hand Rail			
A-09	Inside Baffle Plate & Seismic Tie Adjust / Setting			
A-10	SCR System			

Appendix J

		М		
No.	Description	2019 Dec	2020 Jan	2020 Feb
	Erection Key Date	[] /O Jan	
	Inlet Duct Structure / Include Pipe Rack (U9-U10			
A-11	Connection)			
A-12	Inlet Duct			
A-13	Exhaust Duct Structure			
A-14	Exhaust Duct			
A-15	Aux Equip(B/D Tank, HP/IP Feed Water Pump, LP Eco Recirculation Pump, etc.)			
	HP/IP Feed Water Pump Reserve feed water Tank			
A-16	Insulation			
A-17	Painting			
A-18	Install Catalyst			
A-19	Steam Blowing out(other scope) & alkaline boiling out			

Appendix J

No.	Description	2019 Dec	2020 Jan	2020 Feb
	Erection Key Date	[т	<u>Jan</u> /O Jan	Feb
	Installation of Temporary piping, Support & Silencer Excection of Steam blowing out Dismantle of Temporary iping, Support & Silencer			
	Excection of Steam boiling out			
В	GT/ST/GEN PORTION			
B-1	Turbine O/H Crane			
B-2	Condenser			
B-3	Install ST			

Appendix J

	Commissioning of Fower Diock Facilities	<u> </u>		
No.	Description	2019	2020	2020 Feb
	Erection Key Date	Dec	Jan	гер
		Т	/O Jan	
		1-、	Jan	
B-4	Install GEN			
B-5	Install GT			

Appendix J

	5			
No.	Description	2019 Dec) 2020 Jan	2020 Feb
	Erection Key Date		Τ/O -Jan	
B-6	Aux Equipment			
B-7	Insulation			
B-8	Painting			
B-9	Switchgear/Hoist/Hoist for condenser			

Appendix J

	<u> </u>	М		
No.	Description	2019 Dec	2020 Jan	2020 Feb
	Erection Key Date	[] /O Jan	
<mark>С</mark> С-1	ERECTRICAL & INSTRUMENTATION PORTION Transformer & Ancillaries (G Tx, U Tx, Ex Tx, SFC Tx)			
C-2	EQUIPMENT INSTALLATION Generator & Ancillaries Isolated Phase Busducts Switchgear and Accessories UPS, Batterys, Battery Charger System & DBs Electrical Panels & Local Control Panels Control Systems, Control Panels, Local Instrument Cubicle & Rack			
C-3	Channel Base Installation CABLING SYSTEM INSTALLATION Cable Ladder / Tray Installation Conduit Pipe Installation Earthing Installation Cable Laying & Termination			
	Fire Resistant Sealing Cable Trench Opening & Transportation			

Appendix J

No.	Description	2019 Dec	2020 Jan	2020 Feb
	Erection Key Date	[] /O Jan	
C-4	INSTRUMENTS, INSTR. PIPINGS & AIR TUBE			
	Local Instruments, Piping & Tubing Instrument Calibration			
C-5	OTHER WORK	•••		
	275kV Shunt Reactor Relocation Turbine Overhead Crane, Hoist, Battery Power Supply Existing CWP etc.			
	BOP & Other Works Site Cleaning			
C-6	TESTING & COMMISSIONING	_		
	Testing & Commissioning			
	Commissioning Assistant			

fer to CEM dated 26March2		8002 Master Prog Rev 3	Finish	Start	Duration	Fask Name	Task N
February 2020	January 2020	December 2019					
			Thu 30/9/21 Thu 30/9/21		<u>1197 days</u> 1197 days	Civil and Building Works for Unit 11 and Assoicated Works Contract Key Dates	-
			Fri 1/6/18	Fri 1/6/18	0 days	Contract Commencement Date	
				Wed 31/10/18	1044 days	Completion Dates	
				Wed 31/10/18	•	Section A1 - Ground treatment installation works at Zone 1A	
				Wed 31/10/18	•	Section A2 - Ground treatment installation works at Zone 1B	
				Sun 17/3/19	0 days	Section A3 - Ground treatment installation works at Zone 2	
				Thu 21/3/19		Section A4 - Ground treatment installation works at Zone 3	
			1 nu 28/3/19	Thu 28/3/19	0 days	Section A5 (i) - Ground treatment installation works at Zone 4 - Band drain installation	
			Wed 30/9/20	Wed 30/9/20	0 days	Section A5 (ii) - Ground treatment installation works at Zone 4 - Surcharge filling	
			Sat 28/3/20	Sat 28/3/20	0 days	Section A6 (i) - A&A Works for No. 4 C.W. Outfall at Area E18	
♦ Section A6 (ii) -				Sat 15/2/20	0 days	Section A6 (ii) - External works at Area E15	
			Sun 1/3/20	Sun 1/3/20	0 days	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards leading to Chimney Road at Area E1 & E2	
			Tue 17/3/20	Tue 17/3/20	0 days	Section B1 (ii) - Supporting structures for overhead cranes of L11 MSB including the associated roof structure except the roof deferred works	
				Mon 31/5/21	•	Section B1 (iii) - FSRU Civil works at Area E13	
				Tue 31/3/20	0 days	Section B2 - Retractable Cover D at Area E22	
				Thu 30/4/20	0 days	Section B3 - External works at Area B1, D2 and D4	
ks for Lubo Oil Storago Tank	nd its surrounding at Area E7 except the deferred works	Section C2 - (i) Southern part of L11 HPSG area at		Sun 1/3/20	0 days	Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station Road at Area E3(A) & E3(B)	
	in its suffounding at Alea L7 except the deletted works		Thu 30/4/20		0 days 0 days	Section C2 - (i) Southern part of L11 HRSG area and its surrounding at Area E7 except the deferred works for Lube Oil Storage Tank Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground	
			1110 30/4/20	1110 30/4/20	0 days	floor together with the equipment foundation between GL 11-F to 11-H and 11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil reservoir	
			Sun 1/3/20	Sun 1/3/20	0 days	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	
nding L11 MSB and L11 HRSG in addition to th	Section D - (i) Roads and external grounds surround		Tue 31/12/19	Tue 31/12/19	0 days	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	
				Sun 1/3/20	0 days	Section D - (ii) Remaining northern part of L11 HRSG area and its surrounding in Area E6	
			Thu 30/4/20	Thu 30/4/20	0 days	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	
			Thu 30/4/20	Thu 30/4/20	0 days	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	
Section D - (v) Gas Duct Foundation, Pip			Sat 1/2/20	Sat 1/2/20	0 days	Section D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated trench in Area E20	
				Mon 28/9/20	0 days	Section E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to the western area of L11 MSB at Area E3	
			Tue 30/6/20		0 days	Section E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station Equipment Room (GRS) Area Extension at Area E16	
				Sun 28/2/21 Thu 17/9/20	0 days 0 days	Section E1 - (iii) External Works at Area E15 (C) Section E2 - Pipe and Cable Rack and trench at west of Chimney Road and Pipe and Cable Rack at south of Middle Road at Area E8 and E19	_
			Tue 30/6/20	Tue 30/6/20	0 days	Section E3 - Gas Pipe Support Foundation and Pipe Trench and associated external works at Area E14, E15 (A) and E15 (B)	
			Sun 15/9/19	Sun 15/9/19	0 days	Section E4 - 275kV cable trenching works connecting the 275kV Switching Station Extension and L11 MSB at Area E9 (A)	
			Sat 30/5/20	Sat 30/5/20	0 days	Section F - 275kV Station Building Extension and associated works at Area E17	
			Sun 31/5/20	Sun 31/5/20	0 days	Section G - A&A Works at No. 4 C.W. Intake at Area E12	
				Mon 15/7/19		Section H - L11 Steel flue liner at No. 4 Chimney	

Take Memory Durition Durition Priority Priority Description Description <thdescription< th=""> Description Descri</thdescription<>	Text Point Poi	ntract No. 17/8002 Lamma Power Station Extension Civil and Building Works	for Unit L1	1 (MS2003) 17-8	002 Master Prog Rev 3	Refer	to CEM dated 26March20
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Installation of embedded materials such as holding down bolts for equipment30 daysSun 23/6/19Mon 22/7/19Section A1 & A2 - Ground treatment at Zone 1A & 1B92 daysWed 1/8/18Wed 31/10/18Plant establishment for earthworks7 daysWed 1/8/18Tue 7/8/18Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18	Installation of embedded materials such as holding down bolts for equipment foundations - Commencement30 daysSun 23/6/19Mon 22/7/19Section A1 & A2 - Ground treatment at Zone 1A & 1B92 daysWed 1/8/18Wed 31/10/18Plant establishment for earthworks7 daysWed 1/8/18Tue 7/8/18Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 26/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18Plant establishment for band drain (3rd rig)7 daysThu 11/10/18Wed 17/10/18	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 GL11-F	142 days	Fri 1/5/20	Sat 19/9/20			
Section A1 & A2 - Ground treatment at Zone 1A & 1B92 daysWed 1/8/18Wed 31/10/18Plant establishment for earthworks7 daysWed 1/8/18Tue 7/8/18Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18	Section A1 & A2 - Ground treatment at Zone 1A & 1B92 daysWed 1/8/18Wed 31/10/18Plant establishment for earthworks7 daysWed 1/8/18Tue 7/8/18Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18Plant establishment for band drain (3rd rig)7 daysThu 11/10/18Wed 17/10/18	Installation of embedded materials such as holding down bolts for equipment	30 days	Sun 23/6/19	Mon 22/7/19			
Plant establishment for earthworks7 daysWed 1/8/18Tue 7/8/18Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18	Plant establishment for earthworks7 daysWed 1/8/18Tue 7/8/18Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18Plant establishment for band drain (3rd rig)7 daysThu 11/10/18Wed 17/10/18		92 dave	Wed 1/8/18	Wed 31/10/18			
Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD45 daysWed 8/8/18Fri 21/9/18Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18Plant establishment for band drain (3rd rig)7 daysThu 11/10/18Wed 17/10/18							
Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18	Delivery of band drain5 daysWed 29/8/18Sun 2/9/18Plant establishment for band drain (1st rig)10 daysMon 3/9/18Wed 12/9/18Plant establishment for band drain (2nd rig)7 daysThu 20/9/18Wed 26/9/18Plant establishment for band drain (3rd rig)7 daysThu 11/10/18Wed 17/10/18							
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Plant establishment for band drain (2nd rig) 7 days Thu 20/9/18 Wed 26/9/18	Plant establishment for band drain (2nd rig) 7 days Thu 20/9/18 Wed 26/9/18 Plant establishment for band drain (3rd rig) 7 days Thu 11/10/18 Wed 17/10/18							
Plant establishment for band drain (3rd rig) 7 days Thu 11/10/18 Wed 17/10/18		Plant establishment for band drain (2nd rig)	7 days	Thu 20/9/18	Wed 26/9/18			
		Plant establishment for band drain (3rd rig)		Thu 11/10/18	Wed 17/10/18			

D	Fask Name	Duration	Start	Finish	December 2019		January 2020
3	Vert. Band drain installation (1023 nos. x 44m)	45 days	Thu 13/9/18	Sat 27/10/18			January 2020
ŀ	Deposition of surcharge up to +8.3mPD	45 days		Wed 31/10/18			
	Section A3 - Ground treatment installation works at Zone 2	<u>158 days</u>	Mon 1/10/18	Sun 17/3/19			
	Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	30 days	Mon 1/10/18	Tue 30/10/18	3		
	Delivery of band drain	6 days	Thu 18/10/18	Tue 23/10/18	8		
	Vert. Band drain installation (1787 nos. x 44m)	50 days		3Wed 12/12/18			
)	Deposition of surcharge up to +8.3mPD	60 days		Thu 31/1/19			
) 	Additional Concrete Blocks + Extra Surcharge	60 days		Sun 17/3/19			
2	Section A4 - Ground treatment installation works at Zone 3 Backfilling and compaction from existing ground +4.5mPD to +5.5mPD	<u>131 days</u> 12 days		Thu 21/3/19 Mon 12/11/18			
3	Vert. Band drain installation	60 days		Mon 7/1/19			
1	Deposition of surcharge up to +8.3mPD	45 days		Thu 31/1/19			
5	Possession of Part 1 Defer portion at Zone 3	0 days	Wed 20/2/19	Wed 20/2/19			
5	Vert. Band drain installation	10 days	Wed 20/2/19	Fri 1/3/19			
7 8	Possession of Part 2 Defer portion at Zone 3	0 days	Fri 1/3/19	Fri 1/3/19			
	Vert. Band drain installation Surcharge at deferred portion	7 days 14 days	Fri 1/3/19 Fri 8/3/19	Thu 7/3/19 Thu 21/3/19	-		
0	Section A5 (i) - Ground treatment installation works at Zone 4	83 days	Wed 26/12/18				
1	Site Preparation for Vertical Band Drain	3 days	Tue 1/1/19				
2	Band drain installation	21 days	Wed 26/12/18				
	Possession of Defer portion at Zone 4	0 days	Fri 1/3/19	Fri 1/3/19			
4 5	Vert. Band drain installation	28 days	Fri 1/3/19	Thu 28/3/19			
_	Section A5 (ii) - Surcharge works at Zone 4	<u>30 days</u>		Wed 30/9/20			
; ,	Deposition of surcharge up to +8.3mPD	30 days		Wed 30/9/20			
7 8	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		Sat 28/3/20 Mon 29/4/19			
9	Consent for Jacking Pit ELS	28 days	Sat 20/4/19	Fri 17/5/19			
)	Mobilization	0 days		Sat 15/12/18			
1	Jacking Pit Sheetpile Installation (incl. Stop work notice + CNY)	60 days	Sun 16/12/18				
2	Protective screen and preventive measure for U9 gas pipeline (VO)	28 days	Sun 24/2/19	Sat 23/3/19			
3	Provision of temp support for U10 gas pipeline (VO) upon RMA allow access	28 days	Sun 14/4/19	Sat 11/5/19			
1	ELS of jacking pit	30 days	Sat 18/5/19				
5	Pipe Jacking set up & ground strengthing	18 days	Mon 17/6/19				
6	Pipe Jacking	90 days		Sun 8/12/19	Pipe Jacking		
7 8	Receiving Pit BD Approval Consent for Pipe & Sheet pile	170 days 28 days	Sun 25/11/18 Tue 14/5/19	Thu 23/5/19 Mon 10/6/19			
9	Receiving Pit Pipe & Sheet pile installation	30 days		Wed 10/7/19			
2	Consent for Receiving Pit ELS	28 days	Thu 4/7/19	Wed 31/7/19			
1	ELS of Receiving pit	40 days	Thu 1/8/19	Mon 9/9/19			
2	Allow modify existing outfall manhole for pipe jacking receiving	18 days	Tue 10/9/19	Fri 27/9/19			
3	Culvert Pipe Intallation & water test	55 days		Wed 12/2/20			
ł	Inspection Manhole at Jacking Pit + backfill (Area E3(A))	18 days	Thu 13/2/20				
5	Manhole extension at Outfall no. 4 + backfill + Reinstate of Outfall Rd	45 days	Thu 13/2/20				
6	Sheetpile for L12 Outlet culvert (Connection to Jacking Pit)	45 days		Wed 28/8/19			
7 }	Consent + ELS for remaining jacking pit Outlet Culvert pipe installation + Thrust Box (remaining portion at A1 Area)	75 days 45 days	Thu 29/8/19	Mon 11/11/19 Sat 28/12/19		let Culvert ni	pe installation + Thru
> }	Sheet pile for future extension along GRS	60 days		Sun 27/10/19		er cuivert pi	pe installation + Thru
)	Section A6 (ii) - External works at Area E15(D)	37 days		Sat 15/2/20		Sec.A6(ii)	
	Arae possession & Clearance	6 days		Mon 6/1/20			Arae possession & Cl
2	Road & Surface Works	31 days	Tue 7/1/20				-
3	Section B1 (i) - Area south of L11 MSB and HRSG from GL11-F eastwards	375 days	Thu 31/1/19		с.В1(i)		
	leading to Chimney Road at Area E1 & E2	<u></u>		<u></u>			
ł	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/19			
5	Excavation for CW Inlet Culvert (South of L11 HRSG)	21 days	Tue 16/4/19	Mon 6/5/19			
3	Installation CW Inlet Culvert pipe	30 days	Tue 7/5/19	Wed 5/6/19			
7	Construction of Thrust Box & Manholes,etc	14 days		Wed 19/6/19			
	Backfill	21 days		Wed 10/7/19			
)	Install underground utilities	45 days		Wed 13/11/19	9		
)	Backfill and Temporary paving for Condensor Move in (E1)	14 days	Mon 17/2/20			<u> </u>	
1	Backfill and Temporary paving for Condensor Move in (others)	30 days	Sat 1/2/20	Sun 1/3/20		\vdash	
2	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>	с.B1(i)		
	including the associated roof structure except the roof deferred works						
3	Area possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18			



ID	Task Name	Duration	Start	Finish	December 2019		January 2020
144	Erection of turbine hall roof except defer work	0 days	Wed 13/11/19	Wed 13/11/19	9 ex cept defer work		
145	Installation of crane griders	21 days			Installation of crane griders		
146	Turbine hall wall claddings	60 days		Tue 17/3/20			
147	Section B1 (iii) - FSRU Civil works at Area E13 (GRS)	<u>151 days</u>		Mon 31/5/21			
148	Submission and approval for consent to work	0 days	Fri 1/1/21	Fri 1/1/21			
49 50	Civil & Building Works Ground reinstatement	130 days		Mon 10/5/21 Mon 31/5/21			
151	Section B2 - Retractable Cover D at Area E22	21 days 435 days		Tue 31/3/21	c B2	_	
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	Fri 9/8/19	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	<u>416 days</u>	<u>Fri 1/3/19</u>	Thu 30/4/20	c.B3		
160	Receive Area from HKE, Area Possession & Clearance	0 days	Fri 1/3/19	Fri 1/3/19			
161	Removal of existing paving for band drain under Section A5(i)	30 days	Fri 1/3/19	Sat 30/3/19			
162 163	Complete Vert. Band drain under Section A5(i)	0 days		Thu 28/3/19			
164	Ground preparation for B1, D2 & D4 for handover to Plant contractor Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station	90 days	Sat 1/2/20	Thu 30/4/20			
104	<u>Section C1 - Area south of L11 MSB from GL11-F westwards leading to Station</u> Road at Area E3(A) & E3(B)	<u>466 days</u>	<u>Thu 1/11/18</u>	<u>Sun 1/3/20</u>			
165	Area Possession & Clearance	0 days	Thu 1/11/18	Thu 1/11/18			
66	Excavation for Type C (Area E3A)	21 days		Mon 15/4/19			
167	Installation CW Outlet Culvert Pipe connect to Type C1	21 days 21 days		Mon 6/5/19	-		
68	Installation CW Inlet Culvert pipe (South of L11 Condensor)	21 days	Mon 20/5/19				
69	Construction of Thrust Box	10 days		Wed 19/6/19			
70	Construction of Access Manhole	21 days	Mon 10/6/19	Sun 30/6/19			
171	Backfill	14 days	Mon 1/7/19	Sun 14/7/19			
172	Construction of Underground drainage and utilities	60 days	Thu 7/11/19	Tue 7/1/20			Construction of Under
173	Construct Temp Paving for Condenser move in	45 days	Wed 8/1/20				
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>	1 Dec 19		
175	E7 (No Defer Foundations) Area Possession & Clearance	0 dava	Thu $21/1/10$	Thu 31/1/19			
176	Excavation & Pile Caps & Tie Beams (HRSG South Area E7)	0 days 45 days	Sun 19/5/19		-		
177	Construction RC foundations	45 days		Thu 22/8/19			
178	Construction RC plinths	30 days	Fri 23/8/19				
179	Construction underground utilities	45 days		Sun 6/10/19			
180	Backfill & Construction on-grade slabs	35 days		Sun 10/11/19) slabs		
181	Backfill and Temporary paving	21 days			Backfill and Temporary paving		
182	Section C2 - (ii) L11 Turbo Block foundation including the L11 MSB ground	496 days		Thu 30/4/20			
	floor together with the equipment foundations between GL 11-F to 11-H and						
	11-1 to 11-6 for the installation of power generator, air inlet duct and lube oil						
	reservoir						
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		Thu 8/8/19			
186 187	Backfill and construction turbine block foundations	21 days	Fri 9/8/19	Thu 29/8/19			
88	Construction of internal drainage Construction RC walls incl. G/F rooms	60 days		Mon 7/10/19 Tue 7/1/20			Construction RC walls
89	Construction RC wans Incl. G/F rooms Construction turbine block columns and upper portion for plant embed	90 days 21 days		Sun 29/9/19			
05	installation	21 days	WIOII 9/9/19	Sull 29/9/19			
90	Concrete Turbine upper part foundation & clear falsework	52 days	Tue 10/3/20	Thu 30/4/20			
91	Section C2 - (iii) G/F of L11 MSB including the Condenser Pit, Circulating	<u>466 days</u>	Thu 1/11/18				
	Water Pipe Pit and equipment foundations between GL 11-B to 11-C and 11-1	<u>100 uu jii</u>	<u></u>	<u>5411 1/0/20</u>			
	to 11-6 for the installation of condenser						
92	Area Possession & Clearance	0 days		Thu 1/11/18			
93	Excavation to foundation level at ELS Type A	18 days		Tue 30/4/19			
94	Construction of CW Outlet Box + lowest tie beam & caps	40 days	Wed 1/5/19				
95	Construction of pile caps & tie beams & hot well sump pit up to +2.5mPD	30 days	Mon 10/6/19		-		
96	Backfill & Construction of CW Inlet Box + tie beams	18 days	Wed 10/7/19	Sat 27/7/19			

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Refer to		26March2019
	February	/ 2020
		Superstructure erection
ground drainage and ut		
incl. G/F rooms		

D	Task Name	Duration	Start	Finish	December 2019		January 2020
97	Backfill and Construction ground beams & trenches	18 days	Sun 28/7/19	Wed 14/8/19			January 2020
98	Construction of indoor underground drainage	12 days	Thu 15/8/19	Mon 26/8/19			
9	Backfill & construction on-grade slabs	10 days	Tue 27/8/19	Thu 5/9/19			
0	Construction Column casting and RC walls	30 days	Mon 30/9/19	Tue 29/10/19			
1	Metal Cladding & Louvres for GLB-C/1-6	60 days	Thu 28/11/19				
2	Mis. Works for plant erection	24 days	Fri 7/2/20	Sun 1/3/20			
3	Section D - (i) Roads and external grounds surrounding L11 MSB and L11	<u>414 days</u>	<u>Thu 1/11/18</u>	Tue 31/12/19	<u>9</u> c.D(i)	31 Dec '19	
	HRSG in addition to the southern & eastern areas mentioned above in Area E5 and E6						
	Area Possession & Clearance	14 dava	Thu 1/11/18	Wed 14/11/18	0		
	Excavation for Type C1 and open sheet pile	14 days 75 days	Mon 14/1/19	Mon 8/4/19	o		
	Install CW Outlet pipe & connect to prevous	21 days		Mon 6/5/19			
	Backfill	10 days		Thu 16/5/19			
	Undeground utilities and trenches	60 days		Sat 31/8/19			
	Construction of plant drainage, trenches & RC plinths	45 days		Tue 15/10/19			
	Remaining Undeground utilities & backfill (West of Tx Bay)	75 days	Wed 16/10/19			Remaining	Undeground utilities & ba
	Section D - (ii) Remaining northern part of L11 HRSG area and its	375 days		Sun 1/3/20		_	
	surrounding in Area E6	<u></u>		<u></u>			
	Area Possession & Clearance	0 days	Thu 31/1/19	Thu 31/1/19			
	Excavation & Pits & Pile Caps & Tie Beams (HRSG north Area E6)	45 days	Thu 4/4/19	Sat 18/5/19			
	Construction RC foundations	45 days	Sun 19/5/19				
	Construction RC plinths & HRSG Lift Pit & internal drainage	60 days	Sun 9/6/19	Wed 7/8/19			
	Backfill Construction on-grade slabs	28 days	Thu 8/8/19	Wed 4/9/19			
	Construction underground utilities	45 days	Thu 5/9/19	Sat 19/10/19			
	Backfill, Remaining utilities and temporary paving	85 days	Thu 14/11/19	Mon 17/2/20			
	Touch up and site clearance	13 days	Tue 18/2/20	Sun 1/3/20			
	Section D - (iii) Whole of L11 MSB including the pipe and cable rack along	<u>526 days</u>	<u>Thu 1/11/18</u>	<u>Thu 30/4/20</u>	c.D(iii)	_	
	south facade of L11 MSB with all underground utilities at Area E4 including						
_	C.W. Inlet and Outlet Culvert except the deferred works			T			
_	Area Possession & Clearance	0 days		Thu 1/11/18			
_	Construction of pile caps & tie beams at Transformer Area	60 days	Thu 15/11/18				
-	Excavation & Construction Blow Down Sum pit (Type B)	45 days	Thu 4/4/19				
1	Construction of pile caps & tie beams at SunShadeCover Area	45 days	Wed 10/7/19				
-	Preaparation for S.Steelwork Erection	14 days		Tue 16/7/19			
	Structural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	30 days		Thu 15/8/19			
-	Structural Delivery & Erection (Equipment Floors)	45 days		Sun 29/9/19 Wod 12/11/10	Turbine Hall South)		
	Structural Delivery & Erection (Turbine Hall South) Fire Coating Application at Joint	45 days 120 days		Fri 13/12/19		loint	
	External Scaffolding Erection	120 days		Sun 29/12/19		External Scaffo	ding Frection
	Construction 1/F RC Slab	130 days 14 days	Mon 30/9/19				
	Construction M/F RC Slab	7 days	Mon 14/10/19				
	Construction 2/F RC Slab	14 days	Mon 14/10/19				
	Construction 3/F RC Slab	14 days	Mon 28/10/19				
	Construction 4/F RC Slab	14 days) lion 4/F RC Slab		
	Construction 5/F RC Slab (Roof of turbine hall, except defer portion)	30 days	Mon 25/11/19			tion 5/F RC SIz	b (Roof of turbine hall, ex
	Construction Roof RC Slab	14 days	Mon 9/12/19			n Roof RC Slab	· · · · · · · · · · · · · · · · · · ·
	Construction Upper Roof RC Slab	12 days	Fri 27/12/19				Construction Upper Roo
_	Construction Defer Roof RC Slab (G.L. G-H)	30 days		Sat 15/2/20		100000000000000000000000000000000000000	
-	Construction of Staircase ST-01 & lift shaft & machine room	120 days		Sun 29/12/19		Construction o	f Staircase ST-01 & lift sh
	Construction of Staircase ST-02 except defer work	76 days	Mon 28/10/19				Construction
	Construction of RC plinth, kerbs & parapet Walls	30 days	Fri 7/2/20	Sat 7/3/20			
-	Erection of Skylight & Roof Features	45 days	Fri 21/2/20	Sun 5/4/20			
	Waterproofing & Flooring at Roof	60 days		Mon 16/3/20		7	
	ABFW Works from 1/F to 5/F equipment rooms	150 days	Mon 21/10/19				
	Metal Cladding, Windows and Louvres incl. roof feature	100 days	Thu 28/11/19				
	Removal of external scaffolding	60 days	Mon 17/2/20				
	Building Services E&M Access & Installation	150 days	Mon 4/11/19				
	Remaining and Mis. works for Plant erection Full Access	18 days	Mon 13/4/20	Thu 30/4/20			
	Section D - (iv) Link Bridge between L10 and L11 MSB and at the south of L11	526 days	Thu 1/11/18	Thu 30/4/20	c.D(iv)		
	MSB including their associated alternations & additions (A&A) Works at L10						
	MSB						
	003) 17-8002 Master Prog Re Task Split						
. 1	003) 17-8002 Master Prog Re Task Split Split	Milest	tone 👄	Sun	nmary 🛡 🔍		

				ŀ	Appendix J
Refer to	o Cl	EM	dat	ed 2	26March2019
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		Met	al Clad	dina 8	Louvres for GLB-C/1-
		★			
ackfill (West of Tx Bay)				
					Backfill, Remaining
xcept defer portion)					
of RC Slab					
				-	Construction Defer Roo
haft & machine room of Staircase ST-02 ex	cept d	efer v	vork		

A & A & A & A & A & A & A & A & A & A &	rea Possession & Clearance &A works at South of L10 MSB ection of link bridge structural steel isting of bridge deck etal roofing installation BWF work rrm new opening at MSB for final connection &M Work for completion on D - (v) Gas Duct Foundation, Pipe and Cable Rack and associated th in Area E20 rea Possession & Clearance + CNY ieet pile installation & submit as-built onsent for excavation acavation & plate load test onstruction of foundation iccfill & Underground utilities maining Pipe & cable rack and associated trenchs in Area E20 on E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to restern area of L11 MSB at Area E3 rea Possession acavation & construction of new foundation iccfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession moval of Surcharge and excavation odification of Site Drainage	0 days 60 days 21 days 7 days 14 days 21 days 14 days 21 days 345 days 0 days 75 days 28 days 45 days 30 days 115 days 263 days 0 days 10 days 263 days 10 days 10 day	Thu 28/11/19 Fri 7/2/20 Fri 28/2/20 Fri 6/3/20 Fri 20/3/20 Fri 20/3/20 Fri 10/4/20 Mon 11/2/19 Mon 11/2/19 Sat 27/4/19 Sat 1/6/19 Tue 16/7/19 Fri 30/8/19 Sun 29/9/19 Wed 1/1/20 Wed 1/1/20 Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Thu 27/2/20 Thu 5/3/20 Thu 9/4/20 Thu 9/4/20 Thu 9/4/20 Thu 30/4/20 Sat 1/2/20 Mon 11/2/19 Fri 26/4/19 Fri 26/4/19 Fri 24/5/19 Mon 15/7/19 Thu 29/8/19 Sat 28/9/19 Sat 28/9/19 Sat 1/2/20 Mon 28/9/20 Wed 1/1/20 Tue 18/2/20 Fri 28/2/20 Tue 4/8/20	c.D (v)	December 2019	1 Jan '20	Sec.E1(i)	January 202
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Co Ba Re <u>Sectio</u> the w Ar Ex Ba Er Ba Sectio Equij Ar Re Mo Co AR E& Co Ba Ex Sectio Equij Ar Re Mo Co Sectio Equij Ar Re Mo Co Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Re Ba Sectio Equij Ar Sectio Equij Ar Ba Sectio Equij Ar Ba Sectio Equij Ar Ba Sectio Equij Ar Sectio Equij Ar Ba Sectio Equij Ar Sectio Equij Ar Sectio Equij Ar Ba Sectio E Ba Sectio E Ba Sectio E Ba Sectio E Ba Sectio E Ba Sectio E Ba Sectio E Ba Sectio E Ba Sectio E Ba Sectio E Ba Ba Sectio E Ba Sectio E Ba Sectio E Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba	onstruction of foundation ackfill & Underground utilities emaining Pipe & cable rack and associated trenchs in Area E20 on E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to restern area of L11 MSB at Area E3 rea Possession acavation & construction of new foundation ackfill ection of Structural steel ackfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	45 days 30 days 115 days 263 days 0 days 40 days 10 days 30 days 55 days 173 days	Fri 30/8/19 Sun 29/9/19 Wed 1/1/20 Wed 1/1/20 Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Sat 28/9/19 Sat 1/2/20 Mon 28/9/20 Wed 1/1/20 Tue 18/2/20 Fri 28/2/20 Tue 4/8/20			1 Jan '20		
Re Section the w Arr Ex Ba Erro Ba Section Equin Arr Re Mo Coo AR E& Coo Ba Ex Section Equin Arr Re Mo Coo Ba Ex Section Equin Arr Re Mo Coo Ba Ex Section Equin Arr Re Mo Coo Ba Ex Section Equin Arr Re Mo Coo Ba Ex Section Ex Section Equin Arr Re Mo Coo Ba Ex Section	emaining Pipe & cable rack and associated trenchs in Area E20 on E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to restern area of L11 MSB at Area E3 rea Possession cavation & construction of new foundation ackfill ection of Structural steel ackfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	30 days 115 days 263 days 0 days 40 days 10 days 30 days 55 days 173 days	Sun 29/9/19 Wed 1/1/20 Wed 1/1/20 Wed 1/1/20 Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Sat 1/2/20 Mon 28/9/20 Wed 1/1/20 Tue 18/2/20 Fri 28/2/20 Tue 4/8/20			1 Jan '20		
Re Section the w Ar Ex Ba Er Ba Section Equin Ar Re Mo Co AF E& Co Ba Ex Section Ba Ex Section Ba Ex Section Ar Re Mo Co Ar Ba Section Equin Ar Re Mo Co Ba Ex Section Ba Ba Ba Section Equin Ar Ar Ba Section Equin Ar Ar Ba Section Equin Ar Ar Ba Ar Ar Ba Ar Ar Ba Ar Ar Ba Ar Ar Ba Ar Ar Ba Ar Ar Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba	emaining Pipe & cable rack and associated trenchs in Area E20 on E1 - (i) Link BrIdge and Pipe and Cable Rack connecting L11 MSB to restern area of L11 MSB at Area E3 rea Possession cavation & construction of new foundation ackfill ection of Structural steel ackfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	263 days 0 days 40 days 10 days 30 days 55 days 173 days	Wed 1/1/20 Wed 1/1/20 Wed 1/1/20 Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Mon 28/9/20 Wed 1/1/20 Tue 18/2/20 Fri 28/2/20 Tue 4/8/20			1 Jan '20		
the w Ar Ar Ex Ba Err Ba Err Ba Section Equil Ar Re Mode Cool AF E& Cool AF E& Cool Ba Ex Section Ba Rool Section Ba Rool Section Ba Rool Ba	vestern area of L11 MSB at Area E3 rea Possession rea vestern area of L11 MSB at Area E3 rea Possession rea vestern area of L11 MSB at Area E3 rea Possession rea Possession rea vestern area of L11 MSB at Area E3 rea Possession rea Possession rea Possession rea Possession rea Possession	0 days 40 days 10 days 30 days 55 days 173 days	Wed 1/1/20 Wed 1/1/20 Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Wed 1/1/20 Tue 18/2/20 Fri 28/2/20 Tue 4/8/20			1 Jan '20		
the w Ar Ar Ex Ba Err Ba Err Ba Section Equil Ar Re Mode Cool AF E& Cool AF E& Cool Ba Ex Section Ba Rool Section Ba Rool Section Ba Rool Ba	vestern area of L11 MSB at Area E3 rea Possession rea vestern area of L11 MSB at Area E3 rea Possession rea vestern area of L11 MSB at Area E3 rea Possession rea Possession rea vestern area of L11 MSB at Area E3 rea Possession rea Possession rea Possession rea Possession rea Possession	0 days 40 days 10 days 30 days 55 days 173 days	Wed 1/1/20 Wed 1/1/20 Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Wed 1/1/20 Tue 18/2/20 Fri 28/2/20 Tue 4/8/20			C	A	
Ex Ba Erro Ba Section Equin Arr Re Mo Co AF E& Co Ba E& Co Ba Ex Section Re Un Ba Ro Section Re Un Ba Ba Ba Ex Section Ex Ex Ex Ex Section Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex	acavation & construction of new foundation ackfill ection of Structural steel ackfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	40 days 10 days 30 days 55 days 173 days	Wed 1/1/20 Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Tue 18/2/20 Fri 28/2/20 Tue 4/8/20			C	Anna Dana	
Ba Ba Ba Section Equin Ar Re Ma Co AF E& Co Ba E& Co Ba E& Co Ba E& Co Ba E& Co Ba E& Co Ba Ex Ex Section Ba Ex Ex Ba Section Ex Ba Section Equin Ar	ackfill ection of Structural steel ackfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	40 days 10 days 30 days 55 days 173 days	Wed 19/2/20 Mon 6/7/20 Wed 5/8/20	Fri 28/2/20 Tue 4/8/20	_		1	Area Poss	ession
Ero Ba Section Equin Arr Re Mo Co AF E& Co Ba E& Co Ba Ex Section Re Un Ba Ro Section Ex Ba Ex Ba Ex Ba Ex Ba Ex Ex Ba Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex	ection of Structural steel ackfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	30 days 55 days <u>173 days</u>	Mon 6/7/20 Wed 5/8/20	Tue 4/8/20					
Ba Ba Section Equin Ar Re Mo Co AF E& Co Ba E& Co Ba E& Co Ba E& Co Ba E& Co Ba E& Co Ba E& Co Ba E& Co Ba E& Co Ba Ex Section Co Ba Ex Section Co AF E& Co Ba Ex Section Co Ba Ba Ex Section Co Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba Ba	ackfill & Ground works on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	55 days <u>173 days</u>	Wed 5/8/20						
Section Equip Arr Re Ma Coo AH E& Coo Ba Ex Section Re Un Ba Roo Section Pipe BI	on E1 - (ii) Gas Receiving Station and L11 Gas Receiving Station pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation	<u>173 days</u>		Man 29/0/20					
Equi Equi Ar Re Ma Co AF E& Co Ba E& Co Ba Ex E& Co Ba Ex Ex Co Ba Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex	pment Room (GRS) Area Extension at Area E16 rea Possession emoval of Surcharge and excavation		Wed 1/1/20	WIOII 28/9/20	-				
Arr Ree Ma Coo AE E& Coo Ba Ex Ex Ex Section Ba Reo Un Ba Roo Coo Ba Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex	en Possession emoval of Surcharge and excavation			Tue 30/6/20			1 Jan '20	Sec.E1(ii)	
Re Ma Co AE E& Co Ba Ex Ex Section Ba Ro Co Ba Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex	emoval of Surcharge and excavation								
Ma Coo AE E& Coo Ba Ex Ex Section Ba Roo Ba Roo Section Pipe BE		0 days	Wed 1/1/20	Wed 1/1/20				Area Poss	ession
Co AE E& Co Ba Ex Section Re Un Ba Ro Co Ba Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex Ex	odification of Site Drainage	14 days	Wed 1/1/20	Tue 14/1/20			}		Remov
AF E& Co Ba Ex Section Re Un Ba Ro Section Pipe BE		45 days	Wed 15/1/20	Sun 8/3/20					
E& Co Ba Ex Section Re Un Ba Ro Section Pipe BI	onstruction of new RC for GRS Equipment Room	75 days	Tue 14/1/20	Mon 6/4/20					
Co Ba Ex Section Ba Ro Section Pipe BI	3WF for GRS Equipment room	45 days	Tue 7/4/20	Thu 21/5/20					
Ba Exx Section Re Un Ba Ro Section Pipe S BI	&M Installation	45 days	Sun 17/5/20	Tue 30/6/20					
Ex Section Re Un Ba Ro Section Pipe BI	onstruction of new Gas pipe plinths & racks	45 days	Sat 22/2/20	Mon 6/4/20					
Section Re Un Ba Ro <u>Section</u> Pipe BI	ckfill and construction site drainage	21 days	Tue 7/4/20	Mon 27/4/20	1				
Re Un Ba Ro <u>Section</u> BI	ternal Paving and install new fencing	60 days	Sat 2/5/20	Tue 30/6/20					
Un Ba Ro <u>Sectio</u> Pipe BI	<u>on E1 - (iii) External Works at Area E15 (C)</u>	<u>273 days</u>	<u>Mon 1/6/20</u>	Sun 28/2/21					
Ba Ro Section Pipe BI	emoval of Surcharge and excavation	45 days		Wed 15/7/20					
Ro Section Pipe = BI	nderground drianage, Utilities and RC plinths	123 days		Sun 15/11/20					
Section Pipe BI	ckfill and install surface utilities	45 days	Mon 16/11/20	Wed 30/12/20	J				
Pipe BI	badwork	60 days	Thu 31/12/20						
BI	on 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>	c.E2			1	
	and Cable Rack at south of Middle Road at Area E8 and E19								
Ev(D consent + Site Possession @ Area E8	0 days		Wed 1/5/19	_				
_	cavation & Plate load test	60 days	Wed 1/5/19	Sat 29/6/19	-				
_	undation and Trench constructions	90 days 60 days	Sun 30/6/19 Sat 28/9/19	Fri 27/9/19 Tue 26/11/19		und utitiles + temp paving			
	ackfill & underground utitiles + temp paving accavation & plate load test @ E19	60 days	Wed 27/11/19			und utities + temp paving			
	onstruction of foundations & trenches				-				
	ackfill & underground utitiles	45 days 60 days	Thu 6/2/20 Sup 22/3/20	Sat 21/3/20 Wed 20/5/20					
	pe & cable rack Erection	60 days		Sun 19/7/20					
	ound reinstatement	60 days		Thu 17/9/20					
	on E3 - Gas Pipe Support Foundation and Pipe Trench and associated	173 days		Thu 17/9/20 Tue 30/6/20			1 Jan '20	Sec E3	
	nal 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>				000.20	
	emoval of surcharge / site clearance	21 days	Wed 1/1/20	Tue 21/1/20	1		l		
	acavation & construction of pipe trench	30 days		Sat 29/2/20				• • • • • • • • • • • • • • • • • • •	
	onstruction of gas pipe support foundation	30 days		Mon 30/3/20					
	onstruction of underground drainage and utilities	60 days		Fri 29/5/20					
	ackfill & road work	32 days		Tue 30/6/20					
24	on E4 - 275kV cable trenching works connecting the 275kV Switching	<u>185 days</u>		Sun 15/9/19					
Decer		<u>105 uays</u>	<u>FII 15/5/19</u>	<u>5un 15/7/19</u>					
	on Extension and L11 MSB at Area FQ (A)	0 days	Fri 15/3/19	Fri 15/3/19	1				
2003) 17-	on Extension and L11 MSB at Area E9 (A) e possession				nmary 🛡			1	

	Appendix J
Refer to CEM dated	26March2019
February	
	outh of L10 MSB
—_1 Feb '20	
Remaining Pipe & cable	rack and associated trer
	Excavation & cons
f Surcharge and excavation	
Excavation & plat	e load test @ E19
Removal of surcharge / site clearance	

07 Ex 08 Ex 09 Section 10 Ins 11 Construction 12 BE 13 BE 14 OF 15 Construction 16 Construction 17 Def 18 BE 19 Construction 20 Hoi 21 Pril 22 Err 23 Pril 24 RO 25 RO 26 Construction 27 Shi 30 Err 31 Mei 32 Mei 33 Err 34 Ins 35 RO 36 Cons 37 Cons 38 Cons 41 Cons 41 Cons 42 Liff	btain Permit to work & Road close permit xcavation & construction new cable trench to 275kV xcavation & construction new cable trench to L11MSB ion F - 275kV Station Building Extension and associated works at Area E17 stallation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6 onstruction of Staircase ST-3 D Amendment Approval on A&A D Amendment Approval on A&A ST3 & Drainage P inspection of Staircase ST-3 onsent of New Foundation Works (Stage 1) onsent of New Foundation Works (Stage 1) onsent & BA10 for Demolition of Existing Staircase emolition of Existing Staircase and Submit BA14A D inspection for BA14A & Issue OP onsent & BA10 for New Foundation Work (Stage 2) oarding Modification le Cap & Tie Beam Construction (Stage 1) ection of Tower Crane le Cap and Tie Beam (Stage 2) C Construction up to 1/F (Stage 1) C Construction up to 1/F (Stage 2) onstruction of Staircase ST6 top Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 ection of Structural Steel GL 8~17 etal Cladding Delivery etal Cladding Delivery etal Docv, Window & Lourve Delivery ection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall onstruction of 2/F RC slab	10 days 45 days 130 days 709 days 14 days 0 days 0 days 0 days 0 days 0 days 14 days 0 days 0 days 14 days 28 days 30 days 40 days 30 days 60 days 60 days 60 days 45 days	Fri 15/3/19 Mon 25/3/19 Thu 9/5/19 Fri 1/6/18 Fri 1/6/18 Fri 15/6/18 Mon 17/12/18 Mon 17/12/19 Mon 11/2/19 Fri 19/10/18 Fri 8/3/19 Sat 9/3/19 Sat 9/3/19 Sat 9/3/19 Sat 23/3/19 Sat 13/4/19 Fri 26/10/18 Mon 11/2/19 Sat 11/5/19 Sat 11/5/19 Sat 1/6/19 Sun 15/9/19 Wed 27/2/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19 Sun 6/10/19	Sun 15/9/19 Sat 30/5/20 Thu 14/6/18 Tue 2/10/18 Mon 17/12/18 Mon 4/2/19 Sun 24/2/19 Fri 19/10/18 Fri 8/3/19 Fri 22/3/19 Fri 10/5/19 Thu 25/10/18 Thu 31/1/19 Fri 31/5/19 Sun 9/6/19 Wed 14/8/19 Fri 13/12/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19		December 2019	January 202
08 Ex 09 Section 10 Ins 11 Construction 12 BE 13 BE 14 OF 15 Construction 16 Construction 17 Def 18 BE 19 Construction 20 Hoil 21 Pill 22 Err 23 Pill 24 RO 25 RO 26 Construction 27 Shift 28 Stit 29 Err 30 Err 31 Me 32 Me 33 Err 34 Ins 35 RO 36 Cons 41 Cons 41 Cons 42 Lift	kcavation & construction new cable trench to L11MSB ion F - 275kV Station Building Extension and associated works at Area E17 stallation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6 onstruction of Staircase ST-3 D Amendment Approval on A&A D Amendment Approval on A&A ST3 & Drainage P inspection of Staircase ST-3 onsent of New Foundation Works (Stage 1) onsent of New Foundation Works (Stage 1) onsent of New Foundation Works (Stage 1) onsent & BA10 for Demolition of Existing Staircase emolition of Existing Staircase and Submit BA14A D inspection for BA14A & Issue OP onsent & BA10 for New Foundation Work (Stage 2) obarding Modification le Cap & Tie Beam Construction (Stage 1) rection of Tower Crane le Cap and Tie Beam (Stage 2) C Construction up to 1/F (Stage 1) C Construction up to 1/F (Stage 2) onstruction of Staircase ST6 nop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 ection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery ection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	130 days 709 days 14 days 0 days 0 days 0 days 0 days 0 days 0 days 14 days 0 days 0 days 28 days 28 days 28 days 28 days 28 days 28 days 21 days 98 days 40 days 21 days 30 days 60 days 30 days 60 days 60 days 45 days 60 days 45 days	Thu 9/5/19 Fri 1/6/18 Fri 1/6/18 Fri 15/6/18 Mon 17/12/18 Mon 4/2/19 Mon 11/2/19 Fri 19/10/18 Fri 8/3/19 Sat 9/3/19 Sat 9/3/19 Sat 23/3/19 Sat 23/3/19 Sat 23/3/19 Sat 13/4/19 Fri 26/10/18 Mon 11/2/19 Sat 11/5/19 Sat 11/5/19 Sat 11/5/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Sun 15/9/19 Sat 30/5/20 Thu 14/6/18 Tue 2/10/18 Mon 17/12/18 Mon 4/2/19 Sun 24/2/19 Fri 19/10/18 Fri 8/3/19 Fri 22/3/19 Fri 10/5/19 Thu 25/10/18 Thu 31/1/19 Fri 31/5/19 Sun 9/6/19 Wed 14/8/19 Fri 13/12/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			
O9 Section 10 Ins 11 Cc 12 BE 13 BE 14 OF 15 Cc 16 Cc 17 De 18 BE 19 Cc 20 Hc 21 Pil 22 Err 23 Pil 24 RC 25 RC 26 Cc 27 Sh 38 St 30 Err 31 Me 32 Me 33 Err 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 41 Cc 42 Lif	ion F - 275kV Station Building Extension and associated works at Area E17 stallation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6 onstruction of Staircase ST-3 D Amendment Approval on A&A D Amendment Approval on A&A ST3 & Drainage P inspection of Staircase ST-3 onsent of New Foundation Works (Stage 1) onsent & BA10 for Demolition of Existing Staircase emolition of Existing Staircase and Submit BA14A D inspection for BA14A & Issue OP ponsent & BA10 for New Foundation Work (Stage 2) barding Modification le Cap & Tie Beam Construction (Stage 1) ection of Tower Crane le Cap and Tie Beam (Stage 2) C Construction up to 1/F (Stage 1) C Construction up to 1/F (Stage 2) onstruction of Staircase ST6 hop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 rection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	709 days 14 days 110 days 0 days 0 days 14 days 28 days 28 days 28 days 98 days 40 days 21 days 30 days 75 days 90 days 45 days 60 days 60 days 60 days 45 days	Fri 1/6/18 Fri 1/6/18 Fri 15/6/18 Mon 17/12/18 Mon 4/2/19 Mon 11/2/19 Fri 19/10/18 Fri 8/3/19 Sat 9/3/19 Sat 9/3/19 Sat 23/3/19 Sat 23/3/19 Sat 23/3/19 Sat 13/4/19 Fri 26/10/18 Mon 11/2/19 Sat 11/5/19 Sat 11/5/19 Sat 11/5/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Sat 30/5/20 Thu 14/6/18 Tue 2/10/18 Mon 17/12/18 Mon 4/2/19 Sun 24/2/19 Fri 19/10/18 Fri 8/3/19 Fri 22/3/19 Fri 10/5/19 Thu 25/10/18 Thu 31/1/19 Fri 31/5/19 Sun 9/6/19 Wed 14/8/19 Fri 13/12/19 Fri 12/4/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			
Descent 10 Ins 11 Cc 12 BE 13 BE 14 OF 15 Cc 16 Cc 17 De 18 BE 19 Cc 20 Hc 21 Pil 22 Er 23 Pil 24 RC 25 RC 26 Cc 27 Sh 38 Str 30 Er 31 Me 32 Me 33 Er 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 41 Cc 42 Lif	stallation of ELS for 275kV Switching Station near Staircase ST-3 and ST-6 onstruction of Staircase ST-3 D Amendment Approval on A&A D Amendment Approval on A&A ST3 & Drainage P inspection of Staircase ST-3 onsent of New Foundation Works (Stage 1) onsent & BA10 for Demolition of Existing Staircase emolition of Exisiting Staircase and Submit BA14A D inspection for BA14A & Issue OP onsent & BA10 for New Foundation Work (Stage 2) obarding Modification le Cap & Tie Beam Construction (Stage 1) rection of Tower Crane le Cap and Tie Beam (Stage 2) C Construction up to 1/F (Stage 1) C Construction up to 1/F (Stage 2) Donstruction of Staircase ST6 nop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 rection of Structural Steel GL 8~17 etal Cladding Delivery ection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	14 days 110 days 0 days 0 days 14 days 0 days 0 days 14 days 28 days 28 days 28 days 28 days 7 days 98 days 40 days 21 days 30 days 75 days 90 days 45 days 60 days 30 days 45 days	Fri 1/6/18 Fri 15/6/18 Mon 17/12/18 Mon 17/12/19 Mon 11/2/19 Fri 19/10/18 Fri 8/3/19 Sat 9/3/19 Sat 23/3/19 Sat 13/4/19 Fri 19/10/18 Fri 26/10/18 Mon 11/2/19 Sat 11/5/19 Sat 11/5/19 Sat 1/6/19 Sun 15/9/19 Wed 27/2/19 Sun 15/9/19 Wed 7/8/19	Thu 14/6/18 Tue 2/10/18 Mon 17/12/18 Mon 4/2/19 Sun 24/2/19 Fri 19/10/18 Fri 22/3/19 Fri 22/3/19 Fri 19/4/19 Fri 10/5/19 Thu 25/10/18 Thu 31/1/19 Fri 31/5/19 Sun 9/6/19 Wed 14/8/19 Fri 12/4/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			
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19 Cc 20 Hc 21 Pil 22 Err 23 Pil 24 RC 25 RC 26 CC 27 Sh 28 Sti 29 Err 30 Err 31 Mc 32 Mc 33 Err 34 Ins 35 RC 36 Cc 37 Cc 39 Cc 40 Ins 41 Cc 42 Lif 43 Cc	bensent & BA10 for New Foundation Work (Stage 2) barding Modification le Cap & Tie Beam Construction (Stage 1) ection of Tower Crane le Cap and Tie Beam (Stage 2) C Construction up to 1/F (Stage 1) C Construction up to 1/F (Stage 2) benstruction of Staircase ST6 nop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 ection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery ection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	28 days 7 days 98 days 40 days 21 days 30 days 75 days 90 days 45 days 60 days 30 days 60 days 60 days 60 days	Sat 13/4/19 Fri 19/10/18 Fri 26/10/18 Mon 11/2/19 Sat 11/5/19 Sat 11/5/19 Sat 11/5/19 Sun 15/9/19 Wed 27/2/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Fri 10/5/19 Thu 25/10/18 Thu 31/1/19 Fri 22/3/19 Fri 31/5/19 Sun 9/6/19 Wed 14/8/19 Fri 13/12/19 Fri 12/4/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			5
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22 En 23 Pil 24 RC 25 RC 26 Cc 27 Sh 28 Stu 29 En 30 En 31 Me 32 Me 33 En 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 40 Ins 41 Cc 42 Lif 43 Cc	ection of Tower Crane le Cap and Tie Beam (Stage 2) C Construction up to 1/F (Stage 1) C Construction up to 1/F (Stage 2) onstruction of Staircase ST6 nop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 ection of Structural Steel GL 8~17 etal Cladding Delivery etal Cladding Delivery ection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	40 days 21 days 30 days 75 days 90 days 45 days 60 days 60 days 60 days 60 days 45 days	Mon 11/2/19 Sat 11/5/19 Sat 11/5/19 Sat 1/6/19 Sun 15/9/19 Wed 27/2/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Fri 22/3/19 Fri 31/5/19 Sun 9/6/19 Wed 14/8/19 Fri 13/12/19 Fri 12/4/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			5
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25 RC 26 Cc 27 Sh 28 Sti 29 Er 30 Er 31 Me 32 Me 33 Er 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lif 43 Cc	C Construction up to 1/F (Stage 2) onstruction of Staircase ST6 nop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 rection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	75 days 90 days 45 days 60 days 30 days 60 days 60 days 45 days	Sat 1/6/19 Sun 15/9/19 Wed 27/2/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Wed 14/8/19 Fri 13/12/19 Fri 12/4/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			5
26 Cc 27 Sh 28 Sti 29 Err 30 Err 31 Me 32 Me 33 Err 34 Ins 35 RC 36 Cc 37 Cc 39 Cc 40 Ins 41 Cc 42 Lift 43 Cc	onstruction of Staircase ST6 nop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery rection of Structural Steel GL 17~18 rection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	90 days 45 days 60 days 30 days 60 days 60 days 45 days	Sun 15/9/19 Wed 27/2/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Fri 13/12/19 Fri 12/4/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			6
27 Sh 28 Sti 29 Err 30 Err 31 Me 32 Me 33 Err 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lift 43 Cc	hop Drawing Submission & Approval of Structural Steel ructural Steel fabrication & Delivery rection of Structural Steel GL 17~18 rection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	45 days 60 days 30 days 60 days 60 days 45 days	Wed 27/2/19 Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Fri 12/4/19 Tue 11/6/19 Sat 14/9/19 Wed 13/11/19			5
28 Sti 29 Er 30 Er 31 Me 32 Me 33 Er 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lif 43 Cc	ructural Steel fabrication & Delivery ection of Structural Steel GL 17~18 ection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	60 days 30 days 60 days 60 days 45 days	Sat 13/4/19 Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Tue 11/6/19 Sat 14/9/19 Wed 13/11/19		Construction of Staircase ST6	
29 En 30 En 31 Me 32 Me 33 En 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lift 43 Cc	ection of Structural Steel GL 17~18 ection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	30 days 60 days 60 days 45 days	Fri 16/8/19 Sun 15/9/19 Wed 7/8/19	Sat 14/9/19 Wed 13/11/19			
30 En 31 Me 32 Me 33 En 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lift 43 Cc	ection of Structural Steel GL 8~17 etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	60 days 60 days 45 days	Sun 15/9/19 Wed 7/8/19	Wed 13/11/19			
31 Me 32 Me 33 Er 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lift 43 Cc	etal Cladding Delivery etal Door, Window & Lourve Delivery rection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	60 days 45 days	Wed 7/8/19		iL 8	~17	
33 En 34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lift 43 Cc	ection of Working Platform and Scaffold stall Decking C Walls from 1/F @ GIS Hall	-	Sun 6/10/19	Sat 5/10/19			
34 Ins 35 RC 36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lif 43 Cc	stall Decking C Walls from 1/F @ GIS Hall	150 days				Lourve Delivery	
35 R(36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lif 43 Cc	C Walls from 1/F @ GIS Hall		Mon 1/7/19		tio	t of Working Platform and Scaffold	
36 Cc 37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lift 43 Cc		60 days	Wed 9/10/19	Sat 7/12/19		hstall Decking	
37 Cc 38 Cc 39 Cc 40 Ins 41 Cc 42 Lif 43 Cc		40 days 14 days	Thu 31/10/19 Tue 10/12/19	Mon 9/12/19 Mon 23/12/19		RC Walls from 1/F @ GIS Hall	n of 2/F RC slab
38 Cc 39 Cc 40 Ins 41 Cc 42 Lif 43 Cc	onstruction of R/F RC slab	21 days	Tue 24/12/19	Wed 15/1/20	-		
39 Cc 40 Ins 41 Cc 42 Lif 43 Cc	onstruction of UR/F RC slab	14 days	Thu 16/1/20	Fri 7/2/20			
41 Cc 42 Lif 43 Cc	onstruction of GIS Hall Floor	60 days	Tue 24/12/19	Tue 3/3/20			
42 Lif 43 Co	stallation of Overhead Crane (By JEC)	60 days	Wed 4/3/20	Sat 2/5/20			
43 Co	onstruction of staircase ST4, ST5, Lift Shaft & Equip Floors	150 days	Sun 15/9/19	Sat 22/2/20			
	it Installation	90 days	Sun 23/2/20	Fri 22/5/20	_		
	oncrete of RC walls, plinths, kerb & parapet walls & New trench for LV Power BWF Works @ G/F	30 days 50 days	Tue 24/12/19 Mon 14/10/19	Sun 2/2/20 Mon 2/12/19		ABWF Works @ G/F	
	BWF Works @ 1/F	50 days	Wed 13/11/19	Fri 3/1/20	100000		ABWF Works @ 1/F
	BWF Works @ 2/F	75 days	Fri 13/12/19	Sat 7/3/20	10101010		
	BWF Works @ R/F	30 days	Tue 14/1/20	Fri 21/2/20			
	BWF Works @ UR/F	21 days	Mon 3/2/20	Sun 23/2/20	_		
	aterproofing Works at R/F & UR/F	45 days	Thu 16/1/20	Mon 9/3/20	_		
	uilding Services E&M Access & Installation & T&C etal Cladding, Windows and Louvres incl. Roof Feature	150 days 90 days	Wed 13/11/19 Tue 24/12/19	Tue 21/4/20 Thu 2/4/20			
	nutter Erection	30 days	Fri 3/4/20	Sat 2/5/20	-		
	emoval of External Scaffolding + Tower Crane	35 days	Fri 3/4/20	Thu 7/5/20	-		
	ternal Underground Drainage and Utilities	30 days	Fri 17/4/20	Sat 16/5/20			
55 Ro	pad & Paving Reinstatement	30 days	Fri 1/5/20	Sat 30/5/20			
	eady for FSD & OP Inspection	0 days	Sat 30/5/20	Sat 30/5/20			
	ion G - A&A Works at No. 4 C.W. Intake at Area E12	<u>143 days</u>	Wed 1/1/20			1 Jan '20	T I
58 Pe	ermit to work	0 days	Wed 1/1/20	Wed 1/1/20		· · · · · · · · · · · · · · · · · · ·	Permit to work
59 Er	rection of temp. platform	14 days	Wed 1/1/20	Tue 14/1/20			Erectio
60 De	emolition work	30 days	Wed 15/1/20	Sat 22/2/20			
	odify existing slab openings	75 days	Sun 23/2/20				
	uring + Removal of platform	24 days	Fri 8/5/20	Sun 31/5/20			
	ion H - L11 Steel flue liner at No. 4 Chimney	186 days		Mon 15/7/19			
	omplete erection of L10 Steel flue	0 days	Tue 1/1/19	Tue 1/1/19			
	•			Mon 21/1/19			
	Indification of erection equipment	21 days			-		
	rection temp. platform and demolition work	30 days	Tue 22/1/19		-		
	ructural steel delivery & Erection	85 days	Sun 3/3/19				
	emoval of temp. work	5 days	Mon 27/5/19				
	einstate G/F louvre wall and access door	45 days		Mon 15/7/19			
	ion I - (i) 275kV cable trenching works connecting the 275kV Switching ion Extension and L11 MSB at Area E9 (B)	<u>232 days</u>	<u>Sun 15/9/19</u>	<u>Fri 15/5/20</u>			
	btain Permit to work & Road close permit	0 days	Sun 15/9/19	Sun 15/9/19	1		
	xcavation & construction new cable trench	160 days	Mon 16/9/19		_		

Appendix J Refer to CEM dated 26March2019 February 2020 uction of R/F RC slab Construction of UR/F RC slab Constructic Concrete of RC walls, plinths, kerb & parapet v <mark>] AB</mark>₩F Works ABWF Wo of temp. platform 0000000

	ask Name	Duration	Start	Finish	December 2019		
73	Re-excavate cable trench for cable laying	72 days	Thu 5/3/20	Fri 15/5/20			
74	Section I - (ii) Interconnector 2 Trench Modification Works at Area E10	275 days		Thu 31/12/20			
75	Obtain Permit to work & Road close permit	0 days		Wed 1/4/20			
76	Re-excavate & new cable trench for cable laying	275 days	Wed 1/4/20	Thu 31/12/20			
7	Section J - (i) Demolition of Retractable Cover A&B & (ii) Construction of new	426 days	Sun 1/3/20	Fri 30/4/21			
	<u>LOT 3 & 4</u>						
78	Obtain permit to work & Road close permit	0 days	Sun 1/3/20	Sun 1/3/20			
79	Erection of Hoarding	21 days	Sun 1/3/20	Sat 21/3/20			
80	Removal of existing cover & structural steel	30 days		Mon 20/4/20			
31	Demolish of existing bund wall and staircases	45 days	Tue 21/4/20				
2	Demolish of existing slab & foundation	60 days	Fri 5/6/20	Mon 3/8/20			
3	Consent for new work	30 days	Tue 4/8/20	Wed 2/9/20			
4	Construction of new bund wall and foundation	100 days	Thu 3/9/20	Fri 11/12/20			
5	Construction of new oil separator	80 days	Wed 23/9/20	Fri 11/12/20			
;	Construct underground drainage and surface channel	40 days	Sat 12/12/20	Wed 20/1/21			
7	Construction on-grade slab	60 days	Thu 21/1/21	Sun 21/3/21			
8	Removal of hoarding and ground reinstatement	40 days	Mon 22/3/21	Fri 30/4/21			
)	Section K1 - External works at Area 15 (E) and 15(F)	<u>365 days</u>	Mon 1/6/20	Mon 31/5/21			
C	Removal of surcharge	30 days	Mon 1/6/20	Tue 30/6/20			
	Construct new drainage and utilities work	200 days	Wed 1/7/20	Sat 16/1/21			
2	Road & Paving	135 days	Sun 17/1/21	Mon 31/5/21			
	Section K2 - Removal of Southern Bund and External Works at Area D5, D6	<u>365 days</u>	Mon 1/6/20	Mon 31/5/21			
	and D7						
1	Demolition work	30 days		Tue 30/6/20			
;	Construct new drainage and utilities work	200 days		Sat 16/1/21			
6 7	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	<u>Thu 30/9/21</u>		8 Jan '20 🛛	Sec.K
	to BD and ready for OP inspection (PS1.4.4)						↓
8	Completion of remaining roof after over headcrane move in	30 days		Sat 15/2/20			
))	Construction of G/F Lube Oil Tank Room (BY TDK)	61 days	Tue 6/10/20				
	Construction of wall and staircase at G/F after Condensor Move in	90 days	Mon 6/7/20				
1	Construction of Durasteel Steel wall panel after IBP installation	30 days		Mon 19/10/20			
2	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			

(MS2003) 17-8002 Master Prog Re Task

Split Milestone ♦

Summary 🛡 🛡

Page 8 of 8

F	Refer	to CEI	M dated	Append 26Mai	[.] ch2019
			Februa	ry 2020	
					1 Mar '20
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Schdule of U11 Construction

D	1	タスク名	
			2019年 第4四半期 2020年 第1四半期
1	0	Key Data	2019年第4四半期 2019年12月 2020年91月 2020年02月 上旬中旬下旬上旬中旬下旬上旬中旬下旬
2		H/O HRSG Foundation	4 12/02
3	68	H/O OHC Installation	• 12/02
4	E	H/O Condenser foundation	H/O Condenser foundation
5		H/O Aux. equipment foundation of HRSG nor	
6		H/O HRSG Exhaust duct	H/O HRSG Exhaust duct
7		H/O GT Exhaust duct foundation	H/O GT E
8	EC	H/O MSB building	
9		H/O Foundation around CCW-Cooler	
10	111	Hydrostatic test	
11	tar	Receiving Lube oil	
12	111	Synchronization	
13			
14		HRSG	
75			
76	ł.	HRSG Exhaust duct	HRSG Exhaust duct
91	1		
92		Over Head Crane	
102			
103		Condenser	Gondonser
128			
129		GT/ST/Generator	
61			
62		GT Air inlet	
75			
76		Auxiliary Equipment (0/B)	Auxiliary Equipmen
247			
248		Sea water intake area	
80			
261		Tranceformer area	
69		Building structure	Building
.76			
77		Piping	
85			
86		Grane	
104			
05		Equipment for heavy lifting	

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

Contract No. 18/8004 - Lamma Power Station Extension Foundation Works for Unit L12

Master Programn

				Mas	
)	Task Name	Duration	Start	Finish	2019年 2020年
					M11 M12 I
1	Key Date	416 days		4月30日星期四	
2 3	Commencement date	0 days		3月12日星期二	
	Duration of works	416 days		4月30日星期四	
4 5	Site possession date	0 days		3月12日星期二	
) ;	Completion of the Contract	0 days	4月30日星期四	4月30日星期四	
7	Total Contract Period	455 days	2日1日夏期王	4月30日星期四	
8	Total Contract Period	455 uays	2月1日重新五	4月30日重期四	
9	Preliminaries	21 days	3日12日星期一	4月1日星期一	
9 10	Coordination with utility companies	14 days		3月25日星期一	
1	Pre-construction condition survey	14 days 14 days		3月25日星期一	
2	Notification of commencement of works to Labour Department	7 days		3月25日星期一 3月18日星期一	
2 3	Notification of air pollution control for commencement of works to EPD	7 days 7 days		3月18日星期一	
, 1	Application of water discharge licence from EPD	7 days		3月18日星期一	
	Application of water discharge licence from EPD Application for billing account for disposal of construction waste from EPD	7 days		3月18日星期一	
, ;	CCTV for existing underground drainage pipe around site boundary	21 days		4月1日星期一	
7	Utility detection for existing underground cables	21 days 21 days	3月12日星期二		
3	Site clearance	21 days 21 days		4月1日星期一	
9	Set up contractor's site office	21 days 21 days	3月12日星期二		
))	Installation of monitoring checkpoints	21 days 20 days		3月31日星期日	
1	Submission of BA10 for ELS & foundation works	7 days		3月18日星期一	
2		1 0033	571 · E H 王 M	57,1.0 H 1E 70]	
2 3	Predrilling Works for Section of A1 to A3 (Area P1 to P3)	96 days	2月1日暑期五	5月7日星期二	
4	Drilling rigs mobilization	10 days		2月10日星期日	
- 5	Predrilling works (46 holes) (8 rigs)	81 days		5月2日星期四	
6	Submission of predrill logs	71 days	2月26日星期二		
7	Completion of predrilling works	0 days		5月7日星期二	
.,	Competion of predmining works	0 days	0/111 2/01-	0/1112/01-	
29	Plant Mobilization for Bored Pile Construction	150 days	3月19日星期二	8月15日星期四	
0	Crawler Crane	136 days		8月1日星期四	
31	1st & 2nd set	21 days	3月19日星期二		
32	3rd set	21 days		4月30日星期二	
33	4th & 5th set	21 days		7月4日星期四	
34	6th set	21 days		8月1日星期四	
35	Oscillator	136 days		8月1日星期四	
6	1st & 2nd set	21 days		4月8日星期一	
37	3rd set	21 days		4月30日星期二	
8	4th & 5th set	21 days 21 days		7月4日星期四	
39	6th set	21 days		8月1日星期四	
10	RCD	129 days		8月15日星期四	
1	1st & 2nd set	14 days		4月22日星期一	
12	3rd set	14 days		5月14日星期二	
13	4th & 5th set	14 days		7月18日星期四	
4	6th set	14 days		8月15日星期四	
5	Completion of plant mobilization for bored pile construction	0 days		8月15日星期四	
6	· · · · · · · · · · · · · · · · · · ·				
7	Delivery of Temporary Steel Casing for Bored Pile Construction	150 days	3月19日星期二	8月15日星期四	
8	Duration for delivery of temporary steel casing	150 days		8月15日星期四	
9	Completion of delivery of temporary steel casing for bored pile construction	0 days		8月15日星期四	
0	· · · · · · · · · · · · · · · · · · ·				
i1	Delivery of Permanent Casing & Double Wall Liner	369 days	3月18日星期一	3月20日星期五	
52	Testing for double wall liner	45 days		5月1日星期三	
53	Duration for delivery of permanent casing & double wall liner	325 days		3月20日星期五	
54	, ,				
	Section A1	320 days	3月18日星期一		

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

Contract No. 18/8004 - Lamma Power Station Extension Foundation Works for Unit L12

Master Programme

ID	Task Name	Duration	Start	Finish	2019年		
						M11	
3	Bored Pile Construction at P1 (17 piles)	296 days	4月11日星期四	1831日夏期天		十二月	
	1st set plant - BP13 > BP5 > BP9 > BP26 > BP1 > BP12 > BP8 > BP4 > G2 > G4 > G6	273 days	4月11日星期四				п
7 8	3rd set plant - G8	45 days	4月22日星期一		-		
9					-		
	3rd set plant - BPC3 > BPC4 > BPC5 > BPC6 > BPC7	135 days		1月11日星期六	_		
	Interface & sonic test	28 days		1月31日星期五	_		
1	Completion of bored pile construction at P1	0 days	1月31日星期五	1月31日星期五	_		
62							
63	Sheet Pile at P1	215 days		1月31日星期五	_		
64	Delivery of sheet pile material	14 days		7月14日星期日			
65	Installation of sheet pile (approx. 57 piles) (1 rig)	10 days		7月26日星期五			
6	Installation of sheet pile (approx. 254 piles) (1 rig)	38 days	12月17日星期二				
67	Prepare & submit as-built record plan	7 days		1月30日星期四			
8	Submission of BA14	1 day	1月31日星期五	1月31日星期五			
9	Completion of sheet pile at P1	0 days	1月31日星期五	1月31日星期五	1		
0		-	1		1		
1	Cone Penetration Test	104 days	3月18日星期一	6月29日星期六	1		
2	Plant mobilization	14 days		3月31日星期日	-		
3	Carry out CPTU testing (9 nos.) (1 rig)	90 days		6月29日星期六			
4	Completion of cone penetration test	0 days		6月29日星期六	-		
5	Completion of section A1	0 days		1月31日星期五	-		
, ;		0 days	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		
,	Section A2	197 days	4日8日里始	10月21日星期一			
	Bored Pile Construction at P2 (11 piles)	197 days		10月21日星期一			
	2nd set plant - BP27 > BP24 > BP23 > BP16 > BP20 > BP17	161 days		9月15日星期日	-		
	2rd set plant - BP27 > BP24 > BP23 > BP16 > BP20 > BP17 3rd set plant - G10 > BP21 > BPC8 > BPC1 > BPC2	135 days	4月8日星期一 5月12日星期日		-		
					_		
	Interface & sonic test	28 days	9月24日星期二		-		
2	Completion of bored pile construction at P2	0 days	10月21日星期一		-		
3	Completion of section A2	0 days	10月21日星期一	10月21日星期一	-		
4					_		
5	Section A3	331 days	5月18日星期六		_		
5 7	Bored Pile Construction at P3 (18 piles)	283 days		4月12日星期日	_		
	4th set plant - G1 > G3 > G5 > G7 > G9	225 days		2月14日星期五			
	5th set plant - BP15 > BP19 > BP22 > BP25 > BP28	225 days		2月14日星期五			ł
)	6th set plant - BP3 > BP6 > BP7 > BP11 > BP2 > BP10 > BP14 > BP18	203 days		2月20日星期四			ļ
)	Interface & sonic test	28 days		3月19日星期四			
l	Prepare & submit as-built record plan	7 days		3月19日星期四			
2	Submission of BA14	1 day	3月19日星期四	3月19日星期四			
3	Allow 14 days for selection of pile for concrete full core test	14 days	3月20日星期五	4月2日星期四			
1	Concrete full core test	10 days	4月3日星期五	4月12日星期日			
5	Completion of bored pile construction at P3	0 days	4月12日星期日	4月12日星期日			
6							
7	Sheet Pile at P3	60 days	5月18日星期六	7月16日星期二			
3	Plant mobilization	7 days	5月25日星期六	5月31日星期五	1		
9	Delivery of sheet pile material	14 days		5月31日星期五			
0	Installation of sheet pile (approx. 626 piles) (2 rigs)	46 days		7月16日星期二			
1	Completion of sheet pile at P3	0 days	7月16日星期二				
2	Completion of section A3	0 days		4月12日星期日			
3		0 44,5			-		
Ļ	Section B	305 days	7日1日星期—	4月30日星期四	-		
+ 5	Shunt Reactor	121 days		4月30日星期四 4月30日星期四	-		
		-			-		-
06	Site possession date	0 days		1月1日星期三	-		
07	Predrilling Works for Bored Pile	34 days		2月3日星期一	-	•	
80	Drilling rigs mobilization	7 days		1月7日星期二	-		
09	Predrilling works (4 holes) (2 rigs)	25 days		2月1日星期六	-		
0	Submission of predrill logs	15 days	1月20日星期一	- 2日2日 星 期 —			

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

Contract No. 18/8004 - Lamma Power Station Extension Foundation Works for Unit L12

ID	Task Name	Duration	Start	Finish	2019年
111		0 days	2月3日星期一	2月3日星期一	
112		440 days			
113		113 days		4月30日星期四 1月23日星期四	
114 115		15 days 65 days		1月23日星期四 3月20日星期五	
116		65 days		3月28日星期六	
117		14 days		4月6日星期一	
118		7 days		4月6日星期一	
119		1 day	4月6日星期一	4月6日星期一	
120		14 days	4月7日星期二	4月20日星期一	
121		10 days		4月30日星期四	
122		0 days		4月30日星期四	
123		0 days	4月30日星期四	4月30日星期四	
124					
125		267 days		3月23日星期一 7月1日星期一	
126 127		0 days		7月1日星期一 8月24日星期六	
127		55 days 7 days		8月24日星期六 7月7日星期日	
128		46 days		7月7日至期日 8月22日星期四	
129	5 (1)(5)	30 days		8月22日星期四 8月24日星期六	
130		0 days		8月24日星期八 8月24日星期六	
132		0 00,0	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
133		178 days	9月16日星期一	3月11日星期三	
134		14 days		9月29日星期日	
135	2nd set plant - CP6-1 > CP6-3 > CP6-6 > CP6-8 > CP6-5 > CP6-2 > CP6-7 > CP6-4	150 days	9月30日星期一	2月26日星期三	
136	Interface & sonic test	14 days		3月11日星期三	
137		0 days	3月11日星期三	3月11日星期三	
138					
139		74 days		9月12日星期四	
140		14 days		7月14日星期日	
141		60 days		9月12日星期四	
142		0 days	9月12日星期四	9月12日星期四	
143 144		27 days	9月13日 単銀子	10月9日星期三	
144		7 days		10月9日星期二 9月19日星期四	
145		18 days		10月7日星期四	
140		13 days		10月7日星期三	
147		0 days		10月9日星期三	
149		2 2010			
150		168 days	10月8日星期二	3月23日星期一	
151		14 days	10月8日星期二	10月21日星期一	
152	Trial pile installation (1 pile)	14 days		11月4日星期一	
153		65 days	11月5日星期二	1月8日星期三	
154		5 days		1月13日星期一	
155		28 days		2月5日星期三	
156		1 day			
157		14 days		2月20日星期四	
158		12 days		3月3日星期二	
159		4 days		3月7日星期六	
160		12 days		3月19日星期四	
161 162		4 days		3月23日星期一 3月23日星期一	
162		0 days 0 days		3月23日星期一 3月23日星期一	
164		0 days		4月30日星期四	
	Contract completion	0 days		4月30日星期四	
165					

Project: Lamma Power Station Extension - Civil and Building Works for Unit L10

Contractor: Paul Y. Construction Company, Limited Record by: Ben Lam

Year of Record: 2016, 2017, 2018 & 2019

MM.YYYY		Actua	I Quantities	of Inert C&I	D Material	s Generat	ed Monthly	,	Actual C	uantities of I	Von-inert C&I	O Materials	Generated	Monthly
	Exc	avated Mate	erials		Non-	excavated	Materials							í
	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. genera 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 '000k
Jan 2016	-	-	-	-	-		-	-	-	-	-	-	-	-
Feb 2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar-2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apr-16	-			•	-	-		-	-		•	-	-	-
May-16	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Jun-16	-			•	-	-		-	-			-	-	-
Jul-16	-	-	-	•	-	-	-	-	-	-		-	-	-
Aug-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep-16 Oct-16					-			-						-
Oct-16 Nov-16	- 1779.48	- 0.00	- 0.00	- 0.00	- 0.00	- 0.00	- 0.00	0.00	- 0.00	- 0.00	- 0.00	- 0.00	- 0.00	- 0.00
Dec-16	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.48
Jan-17	0.00	0.00	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-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
Mar-17	3160.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.17	0.00	0.00	0.00	0.00	0.00
Apr-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.84	0.00	0.00	0.00	0.00	0.00
May-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.41	0.00	0.00	0.00	0.00	0.00
Jun-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul-17	2988.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.26	0.00	0.00	0.00	0.00	0.00
Aug-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.61	0.00	0.00	0.00	0.00	0.00
Sep-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.04	0.00	0.00	0.00	0.00	0.00
Oct-17	1963.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
Nov-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.90	0.00	0.00	0.00	0.00	0.00
Dec-17	3011.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.41	0.00	0.00	0.00	0.00	0.00
Jan-18	117.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.81	0.00	0.00	0.00	0.00	151.2
Feb-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
Mar-18	2434.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
Apr-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.41	0.00	0.00	0.00	0.00	0.00
May-18	1390.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.3
Jul-18	1655.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	18.3
Aug-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.04	0.00	0.00	0.00	0.00	35.1
Sep-18	823.76 0.00	0.00	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-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00	
Nov-18 Dec-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	5.09
Jan-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.94	0.00	0.00	0.00	0.00	25.5
Feb-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	25.5
Mar-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.11
Jun-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.6
Jul-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.2
Aug-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.92
Sep-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.8
Oct-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.0
Nov-19	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.7
	1								1					
Total	21057.60	6.93	0.00	0.00	0.00	0.00	0.00	0.00	282.34	0.00	0.00	0.00	1.20	520.3

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				
21064.53 tonnes	282.34 tonnes	520.36 tonnes	1200 Liters				

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

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

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

(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 bottled containers, plastic/foam from packaging material.
 (5) Broken concrete for recycling into aggregates.
 (6) Disposal of inert waste to public till or sorting facilities will <u>NOT</u> be considered as recycled waste.

Notes:

Project: LAMMA POWER STATION EXTENSION – Unit 10 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: 2017, 2018, 2019

MM.YYYY		Actua	Quantities	of Inert C&D	Materials G	Generated N	lonthly		Actual Q	uantities of	Non-inert Ci	&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 cil/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)
Jan 2017	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
Feb 2017	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
Mar 2017	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
Apr 2017	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
May 2017	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
Jun 2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 2017	0.00	0.00	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 2017	0.00	0.00	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 2017 Oct 2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	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 2017 Dec 2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	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 2018 Feb 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
Mar 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	14.73
Apr 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	6.09
May 2018	0.00	0.00	0.00	0.00	0.00	0.00	8.43	7.53	0.00	0.00	0.00	0.00	0.00	0.00
Jun 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
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	13.82
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	60.00	67.37
Sep 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	15.36
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	91.32
Nov 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.35
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	7.23
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	20.97
Feb 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	60.00	7.11
Mar 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
Apr 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
May 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	9.13
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	16.56
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	44000	17.99
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	38.40
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	10000	22.71
Oct 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	13.85
Nov 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.64
Dec 2019														
Total	0.00	0.00	0.00	0.00	0.00	0.00	8.43	7.53	0.00	0.00	0.00	0.00	54120	386.63

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					
15.96 tonnes	0.00 tonnes	386.63 tonnes	54120 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
 15.96
 tonnes of inert C&D material

 15.96
 tonnes were reused in this and other contracts, and the remaining
 15.96
 tonnes were reused in this and other contracts, and the remaining

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

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

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

Notes:

(1) metal, paper & plastic were collected by recycler
 (2) The performance target of waste recycling are specified in the Contractt.

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

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

(5) Broken concrete for recycling into aggregates.

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

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2018 & 2019

MM.YYYY		Actual	Quantities	of Inert C&E	D Material	s Genera	ated Month	ly	Actual Qu	antities of N	lon-inert C&I	D Materials	Generated	d Monthly
	Exca	avated Mate	erials		Non-e	excavated	d Materials	;						
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)
Jul 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2018	3160.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.87
Dec 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.67
Jan 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.66	0.00	0.00	0.00	0.60	0.00
Mar 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.05	0.00	0.00	0.00	0.00	0.00
Apr 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00	19.09
May 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.00	0.00	59.75
Jun 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.64
Jul 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66
Aug 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.31
Oct 2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.109	0.00	0.00	4.76
Nov 2019 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	0.60	4.87
Total	3160.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.42	0.00	0.109	0.00	1.20	152.62

Total Inert C&D Wast	e Materials		Non-inert C&D Mate	erials
Generated		C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
3160.23	tonnes	35.53 tonnes	152.62 tonnes	1200 Liters

- Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, were generated from the Project, of which
 0
 160.23
 tonnes of inert C&D material

 3160.23
 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
 3160.23
 tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
 - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill
 - (c) 0 kg of metals 0 kg of papers/ cardboard packing anc 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

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

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

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

(5) Broken concrete for recycling into aggregates.

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

Appendix K

Monthly Waste Flow Table for November 2019

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

MM.YYYY		Actua	I Quantities	of Inert C&D	Materials G	Generated N	lonthly		Actual C	uantities of	Non-inert C	&D Material	s Generated	Monthly
	Exc	avated Mate	erials		Non-e	xcavated M	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	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	Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant cil/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
	1													
	1													
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00

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

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

 were generated from the Project, of which
 0
 tonnes were reused in this and other contracts, and the remaining
 0.00
 tonnes were disposed in Public Fill and Sorting Facilities.

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

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

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

Notes:

metal, paper & plastic were collected by recycler
 The performance target of waste recycling are specified in the Contractt.

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

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

(5) Broken concrete for recycling into aggregates.

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

 Project:
 Foundation Works for Lamma Power Station Extension Unit L12

 Contractor:
 Sunley Engineering & Construction Co Ltd

 Record by:
 Eric Liu

 Year of Record:
 2019

	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of Non-inert C&D Materials Generated Monthly						
MM/YYYY	Excavated Materials			Non-excavated Materials										
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	the	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)
Apr/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
May/2019	7417.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jun/2019	8470.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul/2019	5056.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.29
Aug/2019	9705.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.51
Sep/2019	5432.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	400.00	2.96
Oct/2019	10767.96	0.00	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/2019	8646.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	400.00	4.75
Total	55497.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	800.00	20.51

Total Inert C&D Waste	Non-inert C&D Materials							
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill		Chemical Waste				
55497.31	tonnes	0 tonnes	20.51	tonnes	800.00	liter		

- Where (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, were generated from the Project, of which 0 tonnes were reused in this and other contracts, and the remaining 55497.31 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) 0.00 tonnes 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.
- (7) Quantity of metal recycled is revised.