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



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

October 2022

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



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

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

Report Title	Lamma Power Station Extension – Unit L12 Monthly EM&A Report (October 2022)
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EXECUTIVE SUMMARY

This is the 150th 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 October 2022.

The reclamation and submarine pipeline works were completed with the first gas-fired combined cycle unit (viz. Unit L9) commissioned in October 2006, working currently on base load operation. To cope with the scheduled retirement of the existing units at Lamma Power Station, the second gas-fired combined cycle unit (viz. Unit L10) L10 was commissioned for reliable operation in February 2020.

In September 2016, the Government approved HK Electric to construct the third combined cycle gasfired generating unit (Unit L11) to implement the 2020 Fuel Mix Target. L11 was commissioned for reliable operation effective in May 2022. The operational EM&A work for L9, L10 and L11 is recorded in the separate monthly EM&A report for the Project "Operation of Lamma Power Station Extension".

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 L12 Civil and Building Works	Construction of Main Station Building, construction of No. 5 Chimney, construction of L12 GRS, construction of superstructure and cable trench works for ACB, construction of cable trench and installation of precast parapet for Cable Bridge (North & South), construction of superstructure for shunt reactor compound extension and construction of external wall of intake chamber and installation of pre-cast unit for No. 5 C.W. Intake.
Unit L12 Mechanical Erection	Condenser installation, HRSG installation and turbine block installation
Unit L12 Electrical, Instrumentation & Control Erection	Cable installation

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

Environmental Monitoring Works

All monitoring work at designated stations was performed as scheduled satisfactorily.

Air Quality

No exceedance of Action/Limit levels on 1-hour TSP and 24-hour TSP for air quality was recorded in the month.

Noise

No exceedance of Action and Limit levels for noise arising from the construction of Lamma Extension was recorded in the month.

Site Environmental Audit

EPD officials from Regional Office (South) visited Lamma Power Station on 13/10/2022. There was no adverse comment from EPD regarding the construction site.

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

Environmental Licensing and Permitting

Description	Permit No.	Valid	Period	Issued To	Date of
-		From	То		Issuance
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
Construction Noise Permit	GW-RS0222-22	13/04/22	12/10/22	Contractor	11/04/22
Construction Noise Permit	GW-RS0551-22	10/07/22	07/01/23	Contractor	08/07/22
Construction Noise Permit	GW-RS0613-22	29/07/22	27/01/23	Contractor	27/07/22
Construction Noise Permit	GW-RS0674-22	01/09/22	28/02/23	Contractor	17/08/22
WPCO Discharge Licence	WT00037613-2021	15/04/21	30/04/26	Contractor	15/04/21
WPCO Discharge Licence	WT00037665-2021	06/05/21	31/05/26	Contractor	06/05/21
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Contractor	22/02/16
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	Contractor	17/03/05
Waste Disposal Billing Account	Account No.: 7038672	27/10/20	-	Contractor	27/10/20
Waste Disposal Billing Account	Account No.: 7039272	08/01/21	-	Contractor	08/01/21
Waste Disposal Billing Account	Account No.: 7041942	21/10/21	-	Contractor	21/10/21

Implementation Status of Environmental Mitigation Measures

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

Environmental Complaints

No complaint in relation to the environmental impact of the construction activities was received in the reporting month.

Future Key Issues

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

Unit L12 Civil and Building Works

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

Unit L12 Mechanical Erection

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

Unit L12 Electrical, Instrumentation & Control Erection

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

Concluding Remarks

The environmental performance of the project was generally satisfactory.

1. INTRODUCTION

1.1 Background

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

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

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

This report summarizes the environmental monitoring and audit work for the Project for the month of October 2022.

1.2 Project Organisation

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

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

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

1.3 Construction Works undertaken during the Reporting Month

Construction activities for Unit L12 civil and building works were, construction of Main Station Building, construction of No.5 Chimney, construction of L12 GRS, construction of superstructure and cable trench works for ACB, and construction of cable trench and installation of precast parapet for Cable Bridge (North & South), construction of superstructure for shunt reactor compound extension, construction of external wall of intake chamber and installation of pre-cast unit for No. 5 C.W. Intake. Construction activities for Unit L12 mechanical erection were condenser installation, HRSG installation and turbine block installation. Construction activity for Unit L12 electrical, instrumentation & control erection was cable installation. Layout plan for construction site is shown in Figure 1.1.

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

Table 1.1	Construction Activities and Their Corresponding Environmental Mitigation
	Measures

Item	Construction Activities	Environmental Mitigation Measures
Unit L12	2 Civil and Building	Works
1.	Construction of Main Station Building Construction of No.5 Chimney Construction of L12 GRS <u>ACB</u> Construction of superstructure Cable trench works	 Air All regulated machine attached with valid exception/approval NRMM labels. Water truck and water sprinkler system would be used. Water spraying for concrete breaking works. Soil stock would be covered with cement or tarpaulin or keep the entire surface wet. Wheel washing facility was provided. Noise Works conducted during restricted hours should comply with the valid CNP. Noise emission label was provided for air compressor. Wastewater Wastewater should be treated in desilting pit and tanks before discharge. Solution should be added to speed up the sedimentation process. Sediment in pit and tanks must be removed regularly. The frequency would be in weekly basis depends on the volume of sediment accumulated in order to maintain sufficient volume for wastewater treatment.
		Waste Management
		 Excavated soil was temporary stored for backfilling and reuse in other projects. Scrape metal would be recycled. Chemical waste should be collected by licensed collector.
2.	Cable Bridge (North & South):	Air – All regulated machine attached with valid

Item	Construction Activities	Environmental Mitigation Measures
Unit L12 3.	Construction of cable trench and installation of precast parapet Shunt Reactor Compound Extension Construction of superstructure No. 5 C.W. Intake Construction of external wall of intake chamber of installation of pre- cast unit 2 Mechanical Erection HRSG installation Turbine block installation	 exception/approval NRMM labels. Water truck, water sprinkler system and mist cannon were used. Excavated soil slop covered with tarpaulin. Wheel washing facilities was provided. Water spraying on haul road and during concrete breaking. Noise Noise emission label was provided for air compressor. Works conducted during restricted hours should comply with the valid CNP. Waste Management Excavated soil would be transferred to other projects for reuse. Scrape metal will be recycled. Wastewater Wastewater would be treated in desilting tanks or wastewater treatment facility before discharge. on 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
Unit L1	2 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.

Item	Construction Activities	Environmental Mitigation Measures
		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.

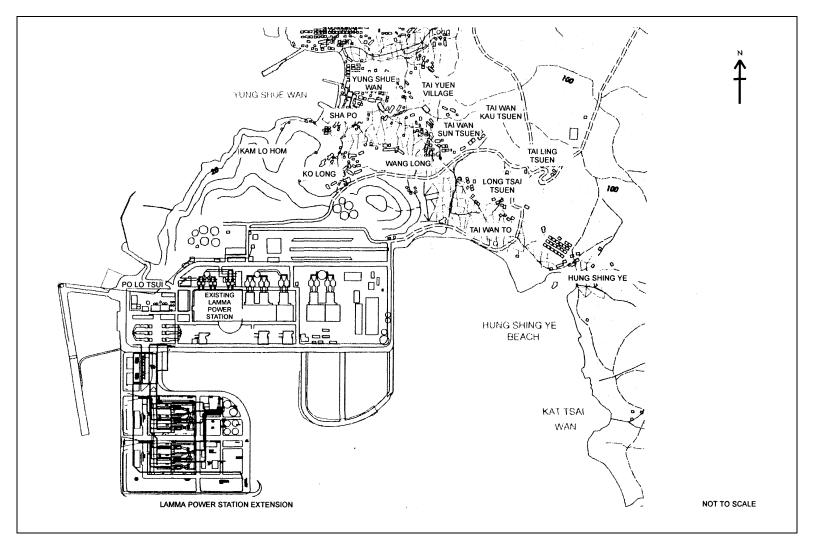


Figure 1.1 Layout of Work Site

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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 2.1Air Quality Monitoring Locations

2.3 Monitoring Equipment

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

Table 2.2Air Quality Monitoring Equipment

Equipment	Model and Make
24-hour sampling:	
Continuous TSP Dust Meter	TEOM continuous dust monitor Thermo Scientific
MINIVOL Portable Sampler	AIRMETRICS
<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
AIVIT	24-hour TSP	24	Once every 6 days
AM2	1-hour TSP	1	3 hourly samples every 6 days
Alvi2	24-hour TSP	24	Once every 6 days
AM3	1-hour TSP	1	3 hourly samples every 6 days
AND	24-hour TSP	24	Once every 6 days
AM4	24-hour TSP	24	Once every 6 days

 Table 2.3
 Air Quality Monitoring Parameter, Duration and Frequency

2.5 Monitoring Procedures and Calibration Details

MINIVOL (24- hour TSP Monitoring):

Preparation of Filter Papers

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

Field Monitoring

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

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

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

Maintenance & Calibration

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

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

2.6 Results and Observations

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

1-hour TSP

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

24-hour TSP

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

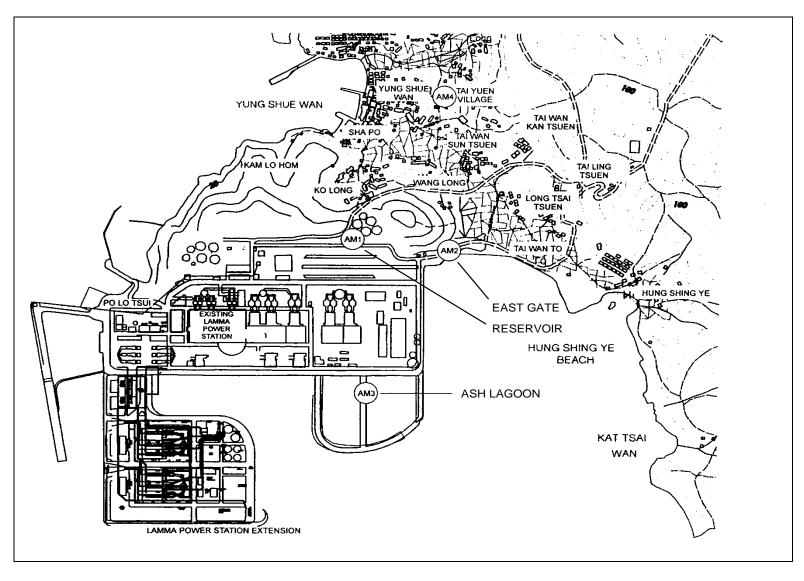


Figure 2.1 Location of Air Quality Monitoring Stations

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3. NOISE

3.1 Monitoring Requirements

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

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

3.2 Monitoring Locations

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

3.3 Monitoring Equipment

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

Table 3.1 Noise Monitoring Equipment

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

3.4 Monitoring Parameters, Frequency and Duration

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

Table 3.2Noise Monitoring Duration and Parameter

LocationTime PeriodFrequencyParameter

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

3.5 Monitoring Procedures and Calibration Details

Monitoring Procedures

Continuous Noise Monitoring for Lamma Extension Construction

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

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

Equipment Calibration

The sound level meters and calibrators were verified by the manufacturer or accredited laboratory. With the endorsement of the Independent Environmental Checker, the enhancement of calibration of sound level meter at the noise monitoring stations was implemented. The monthly manual on-site calibration using sound level calibrator was replaced by the daily auto charge injection calibration function of the sound level meter. For additional quality assurance, manual on-site calibration would still be conducted for the noise monitoring stations once every 6 months. The manual on-site calibrations for Ash Lagoon and Ching Lam noise monitoring stations were carried out in May and September 2022 respectively. The next calibrations for the two corresponding noise monitoring stations were scheduled in November 2022 and March 2023 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.

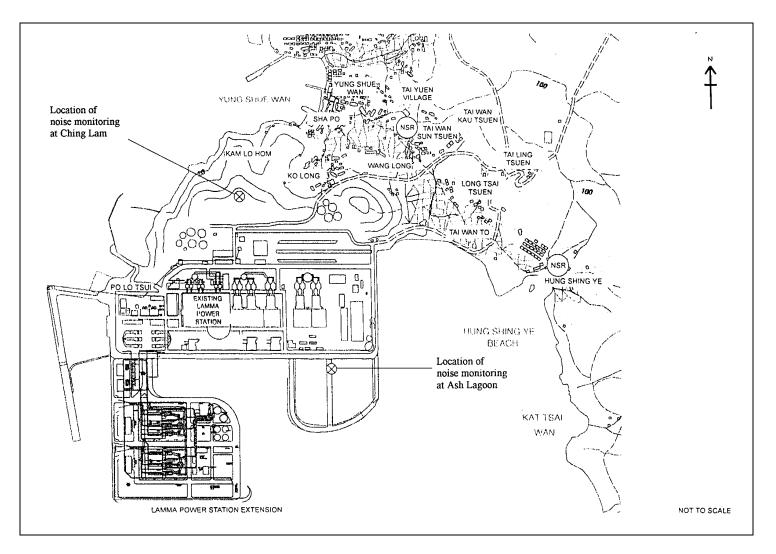


Figure 3.1 Location of Noise Monitoring Stations

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 MonitoredMonitoring PeriodNo. of Exceedances In		Event/Action Plan Implementation Status		
			Action Level	Limit Level	and Results
Air					
1	Ambient TSP (24-hour)	01/10/2022- 31/10/2022	0	0	
2	Ambient TSP (1-hour)	01/10/2022- 31/10/2022	0	0	
Noise	•				
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/10/2022- 31/10/2022	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 October 2022 are shown in Table 4.2.

I able 4.2 Estimated Amounts of Waste in October 202	Table 4.2	Estimated Amounts of Waste in October 2022
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	N	on-inert C&D Material	S
Total Inert C&D Waste Materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste

0 Tonnes	0 Tonnes	95.47 Tonnes	0 Litres
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The monthly waste flow tables prepared by the contractors are attached in Appendix K

4.4 Site Environmental Audit

EPD officials from Regional Office (South) visited Lamma Power Station on 13/10/2022. There was no adverse comment from EPD regarding the construction site.

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

4.5 Status of Environmental Licensing and Permitting

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

Table 4.3	Summary of Environmental Licensing and Permit Status
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Description	ption Permit No. Valid Period		Highlights	Status	
_		From	То		
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid
Construction Noise Permit	GW-RS0222-22	13/04/22	12/10/22	Construction site of Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0551-22	10/07/22	07/01/23	Construction site of Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0613-22	29/07/22	27/01/23	Civil and Building Works for Unit L12. Operation of PME during restricted hours	Valid
Construction Noise Permit	GW-RS0674-22	01/09/22	28/02/23	Power Block Facilities works for Unit L12. Operation of PME during restricted hours	Valid
WPCO Discharge Licence#	WT00037613- 2021	15/04/21	30/04/26	Civil and Building Works for No.5 C.W. Intake and Cable Bridge	Valid
WPCO Discharge Licence##	WT00037665- 2021	06/05/21	31/05/26	Civil and Building Works for Unit L12	Valid

Description	Permit No.	Valid	Period	Highlights	Status
-		From	То		
Registration of Chemical Waste Producer	WPN5213-912- P2781-22	22/02/16	-	Civil and Building Works	Valid
Registration of Chemical Waste Producer	WPN5517-912- T2007-02	17/03/05	-	E&M Equipment Installation and Maintenance	Valid
Waste Disposal Billing Account	Account No.: 7038672	27/10/20	-	Civil works for Unit L12 No.5 C.W. intake and cable bridge	Valid
Waste Disposal Billing Account	Account No.: 7039272	08/01/21	-	Civil and building works for Unit L12	Valid
Waste Disposal Billing Account	Account No.: 7041942	21/10/21	-	E&M Erection of Power Block Facilities – L12	Valid

Notes: # and ## - Water quality monitoring was carried out in August 2022 and the results of which would be reported separately by the contractor.

4.6 Implementation Status of Environmental Mitigation Measures

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

4.7 Implementation Status of Event/Action Plans

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

4.8 Implementation Status of Environmental Complaint Handling Procedures

In October 2022, no complaint in relation to the environmental impact of the construction activities was received.

Table 4.4	Environmental Complaints Received in October 2022
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Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

Table 4.5Outstanding Environmental Complaints Carried Over

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

Nil	N/A	N/A
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5. FUTURE KEY ISSUES

5.1 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

Unit L12 Civil and Building Works

Noise Impact

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

Air Impact

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

Water Impact

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

Unit L12 Mechanical Erection

Noise Impact

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

Air Impact

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

Unit L12 Electrical, Instrumentation & Control Erection

Noise Impact

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

Air Impact

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

5.2 Monitoring Schedules for the Next 3 Months

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

5.3 Construction Program for the Next 3 Months

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

6. CONCLUSION

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

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

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

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

The environmental performance of the Project was generally satisfactory.

Appendix A Organization Chart

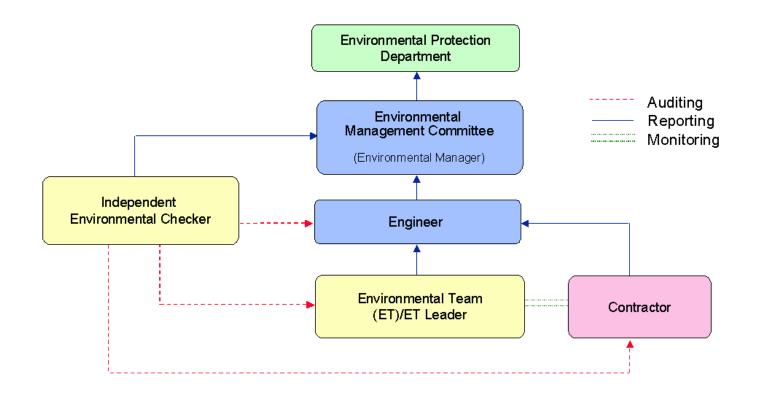


Figure A.1 Organisation of EM&A Programme at Construction Phase

Appendix B Action and Limit Levels for Air Quality and Noise Monitoring

B.1. Air

Table B.1 Action and Limit Levels for 1-hour and 24-hour TS

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

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

B.2. Noise

Table B.2 AL Levels for Construction Noise (Other than Pe	Percussive Piling)
---	--------------------

Parameters	Action	Limit
Noise Levels at the NSR's at Long Tsai Tsuen/Hung Shing Ye and school within the village of Tai Wan San Tsuen predicted by the noise alarm monitoring system Manual noise monitoring at the nearest Pak Kok Tsui residences to cable landing points N4 and N5	When one or more documented complaints are received	 a. 75 dB(A) in L_{Aeq,30 min} (07:00-19:00 hrs on normal weekdays) (Note 1) b. subject to statutory control under the Noise Control Ordinance (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days). Set to 60 dB(A) in L_{Aeq,5 min} c. subject to statutory control under the Noise Control Ordinance (23:00-07:00 hrs of next day). Set to 45 dB(A) in L_{Aeq,5 min}
Note: 1. For educational instituted B(A) during examination of the second seco	· · · · · · · · · · · · · · · · · · ·	hall be 70 dB(A), reduced to 65

Appendix C Environmental Monitoring Schedule

24hr TSP Monitoring	1hr TSP Monitoring
4/October/2022	4/October/2022 1500hr to 1800hr
10/October/2022	10/October/2022 1500hr to 1800hr
16/October/2022	16/October/2022 1500hr to 1800hr
22/October/2022	22/October/2022 1500hr to 1800hr
28/October/2022	28/October/2022 1500hr to 1800hr
3/November/2022	3/November/2022 1500hr to 1800hr
9/November/2022	9/November/2022 1500hr to 1800hr
15/November/2022	15/November/2022 1500hr to 1800hr
21/November/2022	21/November/2022 1500hr to 1800hr
27/November/2022	27/November/2022 1500hr to 1800hr
3/December/2022	3/December/2022 1500hr to 1800hr
9/December/2022	9/December/2022 1500hr to 1800hr
15/December/2022	15/December/2022 1500hr to 1800hr
21/December/2022	21/December/2022 1500hr to 1800hr
27/December/2022	27/December/2022 1500hr to 1800hr
2/January/2023	2/January/2023 1500hr to 1800hr
8/January/2023	8/January/2023 1500hr to 1800hr
14/January/2023	14/January/2023 1500hr to 1800hr
20/January/2023	20/January/2023 1500hr to 1800hr
26/January/2023	26/January/2023 1500hr to 1800hr

Table C.1Monitoring schedule for 24hr and 1hr TSP monitoring for Lamma
Extension Construction (October 2022 to January 2023)

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: October 2022

24 hour TSP Measurement:-

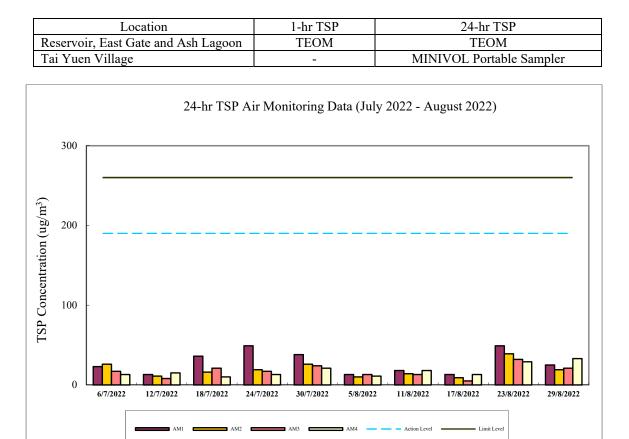
		TSP concentr	ation ($\mu g/m^3$)	Weather Information (From Hong Kong Observatory)			
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir. (°)	Mean R.H. (%)
4/10/2022	34	28	27	21	9.3	70	76
10/10/2022	59	80	43	42	43.6	360	51
16/10/2022	102	79	55	89	39.1	360	46
22/10/2022	44	36	43	35	11.9	90	67
28/10/2022	50	38	44	43	24.8	70	68

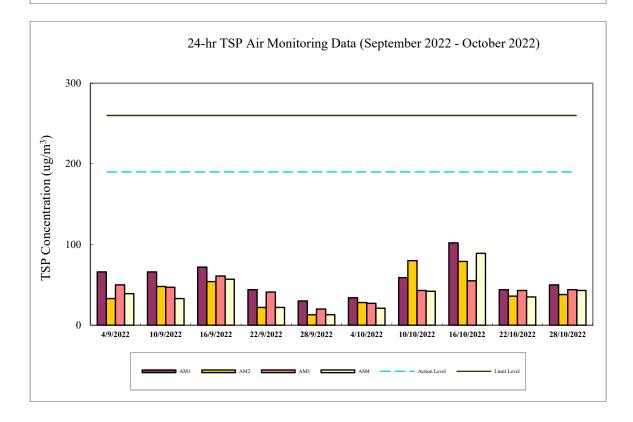
1 hour TSP Measurement:-

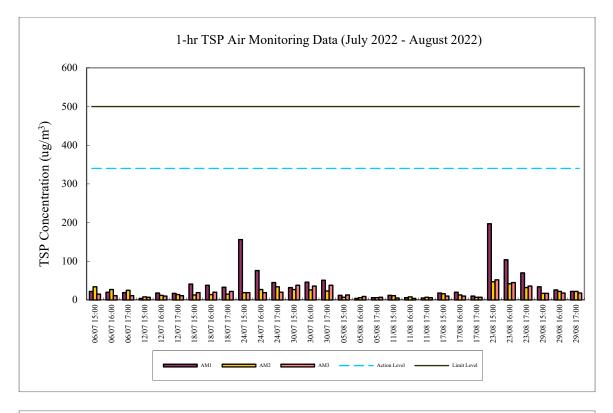
		TSP concentration ($\mu g/m^3$)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
4/10/2022	15:00 - 15:59	96	28	39		
4/10/2022	16:00 - 16:59	118	28	37		
	17:00 - 17:59	51	27	35		
	15:00 - 15:59	45	63	56		
10/10/2022	16:00 - 16:59	59	67	86		
	17:00 - 17:59	59	70	79		
	15:00 - 15:59	82	87	64		
16/10/2022	16:00 - 16:59	122	90	69		
	17:00 - 17:59	148	81	66		
	15:00 - 15:59	48	41	44		
22/10/2022	16:00 - 16:59	52	38	54		
	17:00 - 17:59	46	42	51		
	15:00 - 15:59	79	58	58		
28/10/2022	16:00 - 16:59	73	44	55		
	17:00 - 17:59	64	33	44		

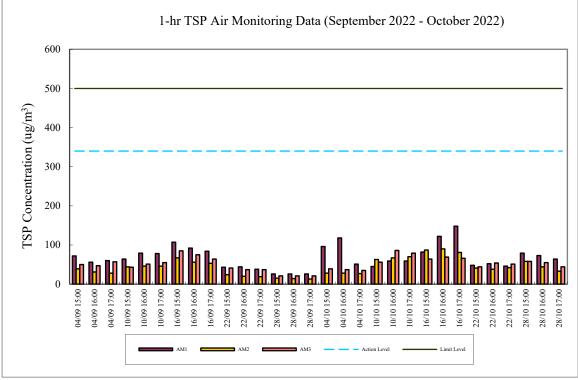
	1-hr TSP	24-hr TSP
	$(\mu g/m^3)$	$(\mu g/m^3)$
Action Level	340	190
Limit Level	500	260
Calibration:	Calibration details are shown in appe	endix F.

Equipment used:









Appendix E C	Continuous Noise Monitoring Results for October 2022
Site:	Lamma Power Station Extension Construction
Measurement Locatio	n. Ash Lagoon and Ching Lam

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 - 21/10/2021 (Ash Lagoon) 03/09/2021 (Ching Lam)

B&K 4231 calibrator (30/08/2022)

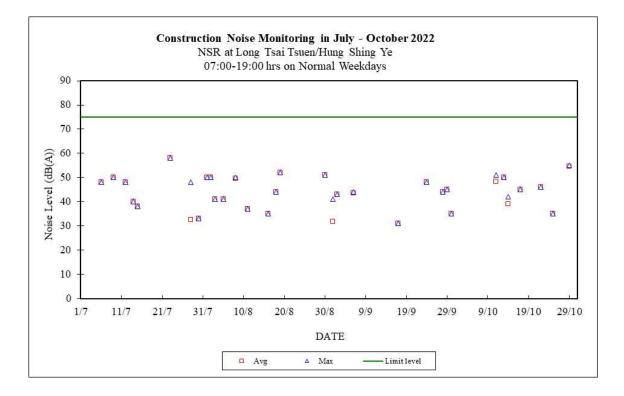
					Calcula	atod	
		Calcula	ated		Noise	aceu	
		Noise			Level a	- +	
		Level a	at	Limit	NSR at	-	Limit
		NSR at	Long	Noise	school	LIIE	
Date	Time	Tsai				Поł	Noise
		Tsuen/H	Hung	Level	within	-	Level
		Shing Y	re -	(dB(A))	Wan Sar	1	(dB(A))
		(dB(A)))		Tsuen		
		Maria	7		(dB(A))		-
01/10/2022	07:00-23:00	Max 45	Avg 35	60	Max 49	Avg 41	60
01/10/2022	23:00-07:00	43	35	45	49	41	45
	07:00-23:00	39	26	60	52		-
02/10/2022		41	38	45	44	40 39	60 45
02/10/2022	23:00-07:00	41					45
03/10/2022	07:00-19:00			75	53	40	
03/10/2022	19:00-23:00	29	29	60	45	38	60
03/10/2022	23:00-07:00			45	45	41	45
04/10/2022	07:00-23:00	45	38	60	46	38	60
04/10/2022	23:00-07:00	36	36	45	42	38	45
05/10/2022	07:00-19:00			75	59	46	70
05/10/2022	19:00-23:00	41	39	60	44	40	60
05/10/2022	23:00-07:00	44	36	45	45	36	45
06/10/2022	07:00-19:00			75	58	46	70
06/10/2022	19:00-23:00			60	43	39	60
06/10/2022	23:00-07:00	42	35	45	43	37	45
07/10/2022	07:00-19:00			75	51	39	70
07/10/2022	19:00-23:00			60	42	39	60
07/10/2022	23:00-07:00	45	36	45	42	34	45
08/10/2022	07:00-19:00			75	59	44	70
08/10/2022	19:00-23:00	30	30	60	42	36	60
08/10/2022	23:00-07:00	45	36	45	43	39	45
09/10/2022	07:00-23:00	42	36	60	45	39	60
09/10/2022	23:00-07:00	45	43	45	44	38	45
10/10/2022	07:00-19:00			75	60	45	70
10/10/2022	19:00-23:00	39	35	60	39	32	60
10/10/2022	23:00-07:00	45	37	45	44	35	45
11/10/2022	07:00-19:00	51	48	75	60	46	70
11/10/2022	19:00-23:00			60	44	41	60
11/10/2022	23:00-07:00			45	44	39	45
12/10/2022	07:00-19:00			75	69	44	70
12/10/2022	19:00-23:00	42	36	60	41	34	60
12/10/2022	23:00-07:00	44	40	45	45	41	45
13/10/2022	07:00-19:00	50	50	75	61	44	70
13/10/2022	19:00-23:00			60	40	37	60
13/10/2022	23:00-07:00	45	42	45	40	37	45
		_		-			-
14/10/2022	07:00-19:00	42	39	75	52	36	70

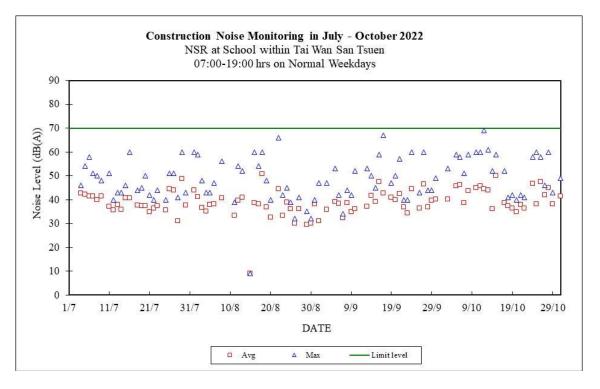
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22/10/2022	19:00-23:00			60	44	38	60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22/10/2022	23:00-07:00	38	38	45	42	38	45
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23/10/2022	07:00-23:00	51	36	60	46	37	60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23/10/2022	23:00-07:00	45	38	45	44	36	45
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24/10/2022	07:00-19:00			75	58	47	70
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24/10/2022	19:00-23:00	48	38	60	49	33	60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		23:00-07:00	45	36	45	41	32	45
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25/10/2022	07:00-19:00	35	35	75	60	38	70
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25/10/2022	19:00-23:00	40	35	60	47	35	60
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		07:00-19:00					47	70
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30/10/202207:00-23:0058466045416030/10/202223:00-07:0045394544414531/10/202207:00-19:0075494170					60	45	42	60
30/10/202223:00-07:0045394544414531/10/202207:00-19:0075494170			45	40	45	43	40	45
31/10/2022 07:00-19:00 75 49 41 70	30/10/2022	07:00-23:00	58	46	60	45	41	60
		23:00-07:00	45	39	45	44	41	45
	31/10/2022	07:00-19:00			75	49	41	70
31/10/2022 19:00-23:00 39 32 60 41 35 60	31/10/2022	19:00-23:00	39	32	60	41	35	60
31/10/2022 23:00-07:00 44 33 45 41 33 45	31/10/2022	23:00-07:00	44	33	45	41	33	45

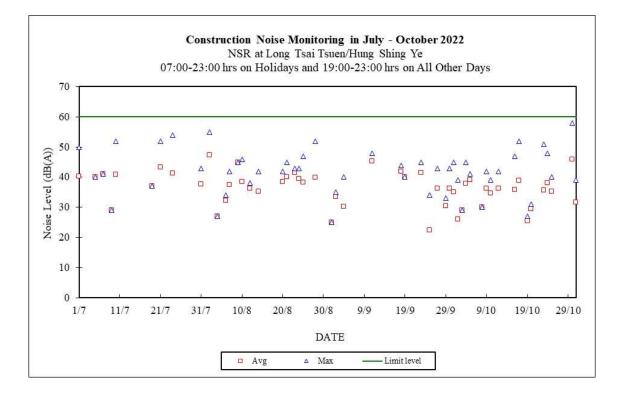
Note:

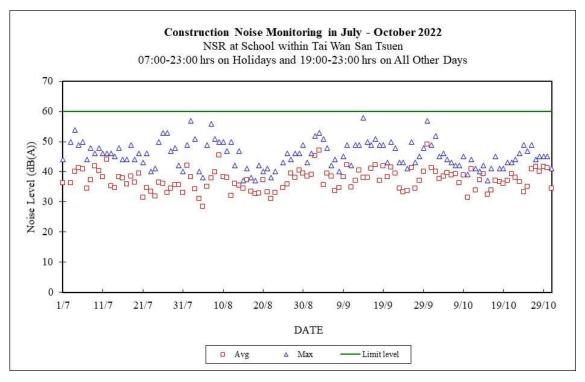
a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.

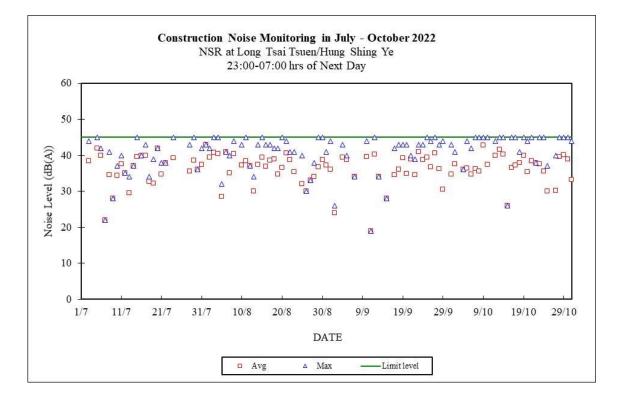
b. Continuous noise monitoring was also carried out at holidays & eveningtime (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time (23:00-07:00 hrs of next day).

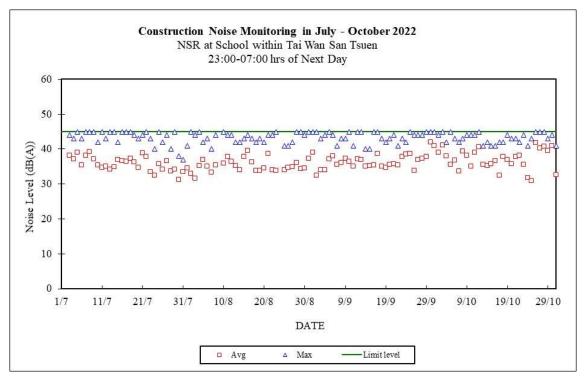












Appendix F

The QA/QC Procedures and Results

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

Month: October

Year: 2022

Reservoir (AM1)					
Date	Frequency (Hz) (240 - 275)	Operation Mode (Mode 4)	Main Flow (I/min) (2.70 - 3.30)	Bypass Flow (I/min) (12.30 - 15.04)	
4/10/2022	267.657	4	2.85	10.31	
10/10/2022	271.169	4	2.92	10.31	
16/10/2022	270.257	4	2.85	10.31	
22/10/2022	269.324	4	2.89	10.31	
28/10/2022	268.685	4	2.88	10.31	

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)	
4/10/2022	265.340	4	2.95	13.44	
10/10/2022	265.012	4	2.88	13.88	
16/10/2022	264.116	4	2.16	13.28	
22/10/2022	263.454	4	2.38	13.70	
28/10/2022	263.110	4	2.16	13.68	

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)	
4/10/2022	257.125	4	2.60	13.68	
10/10/2022	256.786	4	2.31	13.68	
16/10/2022	256.189	4	2.12	13.67	
22/10/2022	258.280	4	3.00	13.69	
28/10/2022	257.746	4	3.00	13.68	

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

<u>Remarks:</u>

Prepared by: Chris Chan

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

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
19/10/2022 / 10:15	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS25
New filter paper no.	MS26

Type of filter: Glass-fibre

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

Before: After:

<u>5.041</u> 5.041 (No adjustment)

II. General Services

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

Remarks

N/A

Conducted by: WM Tam

Checked by: SM Hon

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

Date	Location:	Ash Lagoon	Location: (Ching Lam
	Calibration Results	Deviation from	Calibration Results	Deviation from
		Reference (dB)		Reference (dB)
01/10/2022	Passed	0.03	Passed	0.02
02/10/2022	Passed	0.04	Passed	0.06
03/10/2022	Passed	0.03	Passed	0.04
04/10/2022	Passed	0.07	Passed	0.05
05/10/2022	Passed	0.03	Passed	0.04
06/10/2022	Passed	0.03	Passed	0.05
07/10/2022	Passed	0.04	Passed	0.02
08/10/2022	Passed	0.02	Passed	0.03
09/10/2022	Passed	0.01	Passed	0.02
10/10/2022	Passed	0.00	Passed	0.00
11/10/2022	Passed	-0.01	Passed	-0.02
12/10/2022	Passed	0.00	Passed	-0.01
13/10/2022	Passed	0.00	Passed	0.01
14/10/2022	Passed	0.03	Passed	0.01
15/10/2022	Passed	0.04	Passed	0.03
16/10/2022	Passed	0.03	Passed	0.01
17/10/2022	Passed	-0.05	Passed	-0.07
18/10/2022	Passed	-0.01	Passed	-0.02
19/10/2022	Passed	0.00	Passed	-0.01
20/10/2022	Passed	-0.02	Passed	-0.02
21/10/2022	Passed	0.01	Passed	0.02
22/10/2022	Passed	0.02	Passed	-0.01
23/10/2022	Passed	-0.04	Passed	-0.02
24/10/2022	Passed	-0.04	Passed	-0.03
25/10/2022	Passed	-0.03	Passed	-0.03
26/10/2022	Passed	-0.03	Passed	0.00
27/10/2022	Passed	-0.01	Passed	-0.02
28/10/2022	Passed	0.00	Passed	0.00
29/10/2022	Passed	0.02	Passed	0.00
30/10/2022	Passed	0.02	Passed	0.00
31/10/2022	Passed	-0.05	Passed	-0.05

Remarks:

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

2. The acceptance criterion of deviation from reference is ± 0.5 dB.

Appendix G Event/Action Plans

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

Table G.1Event and Action Plans for Air Quality

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

Table G.2Event and Action Plans for Construction Noise	
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Exceedance	ET Leader	IEC	Engineer	Contractor
Action Level	Undertake noise measurement/check monitoring data to establish validity of complaint.	Review the analysed results submitted by the ET.	Notify Contractor of the complaint if proven.	Submit proposals for remedial actions to Engineer.
	If the complaint is valid, inform Engineer and IEC verbally.	Review the remedial measures proposed by the Contractor and advise the Engineer and ET accordingly.	Check Contractor's working methods and advise IEC and ET accordingly.	Amend proposals if required by the Engineer.
	Identify the source(s) of the noise.	Verify the implementation of the remedial measures.	Remind the Contractor of his contractual obligations and discuss remedial actions.	Implement the remedial actions immediately upon instruction from the Engineer.
	Discuss remedial actions required with Contractor and Engineer.		Keep the Contractor informed of the efficacy of remedial actions.	Liaise with the Engineer to optimise the effectiveness of the agreed mitigation.
	Increase manual monitoring frequency to assess efficacy of remedial measures.			
	If exceedance continues, review implementation of appropriate mitigation measures.			
Limit Level	Repeat manual measurement/check monitoring data to confirm findings.	Agree potential remedial actions with Engineer, ET and Contractor.	Notify Contractor of exceedance.	Take immediate action to avoid further exceedance.
	Identify the source(s) of the impact. If the exceedance is found to be valid and due to	Review Contractor's remedial actions / measures to ensure their effectiveness and advise the Engineer and ET accordingly.	Check Contractor's working methods and advise IEC and ET accordingly.	Submit proposals for remedial actions to Engineer.
	the Construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance, as soon as practicable.		Discuss with Contractor the remedial actions to be implemented.	Amend proposals if required by the Engineer.
	Discuss remedial actions required with	Verify the implementation of the remedial measures	Keep the Contractor informed of the efficacy of remedial actions.	Implement remedial actions immediately upon instruction from the Engineer.
	Engineer.		If the exceedance continues, consider what portion of the work is	If the exceedance continues, consider
	Increase manual monitoring frequency to assess efficacy of remedial measures.		responsible and instruct the Contractor to stop the portion of work until the exceedance is abated	what portion of the work is responsible and, as instructed by the Engineer, stop the portion of work until the exceedance is abated

Table G.3Event and Action Plans for Water Quality

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

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

Appendix H Summary of Site Audit Findings

L12 Civil and Building Works

Dates of Inspection: 6/10/2022, 13/10/2022, 20/10/2022 and 25/10/2022.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

L12 Mechanical, Electrical, Instrumentation & Control Erection Works

Dates of Inspection: 6/10/2022, 13/10/2022, 20/10/2022 and 27/10/2022.

Summary of Findings

General

- No environmental deficiency identified.

Air Quality

- No environmental deficiency identified.

Noise

- No environmental deficiency identified.

Water Quality

- No environmental deficiency identified.

Waste Management

- No environmental deficiency identified.

Summary of EMIS

Power Station – (Part B of EIA Report)

Construction Phase Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	• the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	С
	• the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	С
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	N/A
	• The materials which may generate airborne dust emissions shall be wetted by water spray system.	N/A
	• All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	N/A
	• All conveyor transfer points shall be totally enclosed.	N/A
	WATER QUALITY	
B1	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging. **	N/A
В3	As a necessary operational constraint combined bulk dredging and sand filling for site formation shall not be permitted at any time. In addition, sand filling for site platform shall take place behind constructed sea walls which pierce the water surface. **	N/A
B4	HEC shall ensure design to divert all storm drains away from Hung Shing Ye Bay.	N/A
В5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
В6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented: **	N/A
	 reducing the number of dredgers working at any one time; reducing the rate of working of the dredgers; temporary suspension of operations; phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle. 	

EM&A Log Ref.	Mitigation Measures	Implementation Status
B7	In addition to the above specific measures the following general working procedures shall be adopted. **	
	• fully-enclosed or watertight grabs shall be used to minimise loss of sediment during the raising of loaded grabs through the water column;	N/A
	• the descent speed of grabs shall be controlled to minimise the seabed impact speed and to reduce the volume of over dredging;	N/A
	• barges shall be loaded carefully to avoid splashing of material;	N/A
	• all barges used for the transport of dredged materials shall be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;	N/A
	• all barges shall be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action;	N/A
	• the speed of trailer dredgers shall be controlled to prevent propeller wash from stirring up the sea bed sediments;	N/A
	• "rainbowing" sand fill from trailer dredgers shall not be permitted; and	N/A
	• the works shall cause no visible foam, oil, grease or litter or other objectionable matter to be present in the water within and adjacent to the dredging site and along the route to the disposal site.	N/A
B8	Cumulative impacts shall be assessed through EM&A. Co-ordination with the EM&A consultants for other projects to determine if any exceedances are caused by the other projects or by HEC's activities. Should monitoring results indicate exceedances at sensitive receivers due to HEC's activities, then the above described mitigation measures shall be implemented until impacts reduce to acceptable levels. **	N/A
	NOISE	
C1	General noise mitigation measures shall be employed at all work sites throughout the construction phase.	С
C2	Mitigate against general construction noise during Sunday's and public holidays, either at source with portable noise barriers, or by rescheduling of some PMEs to less sensitive time periods.	С
C3	Mitigate against night time noise from dredging equipment, with silencers or mufflers. **	N/A
	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
1	• 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
	 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	
		1

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 L12 construction
С	-	Compliance with mitigation measure
NC	-	Non-compliance with mitigation measure
N/A	-	Not Applicable

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

ct No. 19/83002 Lamma Power Station Extension Civil and I	Duration	Start	Finish	Master Pro
ATES & MILESTONES ct Period dt Work Completion Key Dates	1123 days 1123 days 784 days	Fri 4/12/20 Fri 4/12/20 Mon 8/11/21	Sun 31/12/23 Sun 31/12/23 Sun 31/12/23	
ntial Completion of the Whole Contract Works (1123 Days) OSSESSION DATES	784 days 0 days 513 days	Sun 31/12/23 Fri 4/12/20	Sun 31/12/23 Sun 1/5/22	
ssession Date as phased site possesion plan and PS1.4.2 ssession Date as phased site possesion plan and PS1.4.2	0 days 0 days	Fri 4/12/20 Fri 1/1/21	Fri 4/12/20 Fri 1/1/21	
ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possession plan and PS1.4.2 ssession Date as phased site possesion plan and PS1.4.2	0 days 0 days 0 days	Sat 1/5/21 Fri 1/10/21 Fri 1/4/22	Sat 1/5/21 Fri 1/10/21 Fri 1/4/22	
ssession Date as phased site possesion plan and PS1.4.2 .ETION DATES as per PS1.4.2 Time for Completion	0 days 537 days	Sun 1/5/22 Thu 30/9/21	Sun 1/5/22 Tue 21/3/23	
A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney Road at Area F1 &	0 days	Thu 30/9/21	Thu 30/9/21	
A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the associated roof structure except deferred works A2 (i) External Works including CW Inlet Culvert at Area F8A	0 days 0 days	Mon 1/11/21 Mon 10/1/22	Mon 1/11/21 Mon 10/1/22	
A2 (ii) External Works including CW Intet Culvert at Area F8B A2 (iii) External Works including CW Inlet Culvert at Area F8C	0 days 0 days	Thu 31/3/22 Fri 11/3/22	Thu 31/3/22 Fri 11/3/22	
B1 - Área south of L12 MSB from GL12-F westwards leading to Station Road at Area F3 B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as shown in drawing no 2040 including the foundations for Gas Exhaust Duct	0 days 0 days	Wed 15/12/21 Thu 30/9/21	Wed 15/12/21 Thu 30/9/21	_
B2 (ii) - Remaining northern part of LI2 HRSG area and its surrounding at Area F6A and F6C B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the equipment	0 days 0 days	Mon 15/11/21 Mon 28/2/22	Mon 15/11/21 Mon 28/2/22	
ons between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power generator, air inlet duct and lube oil r B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and equipment foundations	0 days	Wed 15/12/21	Wed 15/12/21	
1 GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser C (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the southern & eastern entitoned above in Area F5	0 days	Sat 15/1/22	Sat 15/1/22	
C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB with all ound utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred works	0 days	Thu 31/3/22	Thu 31/3/22	
C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at L11 MSB D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of miscrowave equipment and	0 days 0 days	Sun 10/4/22 Fri 10/6/22	Sun 10/4/22 Fri 10/6/22	
D (ii) - No. 5 Chimney with L12 Steel Flue liner E (i) Tx Room of Adminintration and Control Building	0 days 0 days	Tue 21/3/23 Sun 31/10/21	Tue 21/3/23 Sun 31/10/21	
E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building E (iii) - Whole of Admin. And Control Building E (iii) - Whole of Admin. And Control Building	0 days 0 days	Mon 28/2/22 Tue 31/5/22	Mon 28/2/22 Tue 31/5/22	A Station F.O., Can Branking Station and U.S. Can Branking Station Finite and
F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room (GRS) Area Extension at Area (ii) - Pipe and Cable rack and external work at Area F9A and F9B	0 days 0 days	Wed 30/11/22 Tue 31/5/22	Wed 30/11/22 Tue 31/5/22	Section F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Routing Station
F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area F10 G (i) - External Work surrounding Area F11	0 days 0 days	Wed 31/8/22 Wed 26/10/22	Wed 31/8/22 Wed 26/10/22	n G (i) - External Work surrounding Area F11
G (ii) - External Works at Area F12 & F13 G (iii) - FS Modification works along South Seafront Road at Area F15 G (iv) - 275KV cable trenches and External Works at Area F16	0 days 0 days 0 days	Fri 30/9/22 Fri 30/9/22 Fri 30/9/22	Fri 30/9/22 Fri 30/9/22 Fri 30/9/22	Seafront Road at Area F15 Works at Area F16
G (v) - Shunt Reactor Compound and External Works at Area F17 G (vi) - 275kV cable trenches and External Works at Area F18	0 days 0 days	Fri 30/9/22 Wed 1/6/22	Fri 30/9/22 Wed 1/6/22	nal Works at Area F17
G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B G (xi) - Bund wall modification works at South Seafront Road at Area F21	0 days 0 days 0 days	Sun 8/5/22 Fri 30/9/22 Fri 15/10/21	Sun 8/5/22 Fri 30/9/22 Fri 15/10/21	along HUA at Area F208
G (N) - Bund waii medinication works at south Seatron road at Area F21 G (N) - DAX Cable Diversion Works (from Part 1 to Part 1 V) H - All remaining works shall be completed for reporting completion to BD and ready for OP inspection	0 days 0 days 0 days	Sat 31/12/22 Tue 28/2/23	Sat 31/12/22 Tue 28/2/23	
AL & PRELIMINARY	228 days	Fri 4/12/20	Mon 19/7/21	
bilization iemporary Site Office and Welfare Factiliites poplications & Statuary Submissions	18 days 90 days 120 days	Fri 4/12/20 Tue 22/12/20 Mon 22/3/21	Mon 21/12/20 Sun 21/3/21 Mon 19/7/21	
Utilities cancer a second of the second of t	45 days 60 days	Tue 22/12/20 Sun 27/12/20	Thu 4/2/21 Wed 24/2/21	
CAL SUBMISSION AND APPROVAL roval & Consent (If required)	314 days 0 days	Thu 10/12/20 Thu 10/12/20	Wed 20/10/21 Thu 10/12/20 Thu 24/12/20	
sion and Approval of Master Programme xecuation Overal Plan submission & approval Submissions and approval	14 days 14 days 300 days	Fri 11/12/20 Fri 11/12/20 Fri 25/12/20	Thu 24/12/20 Thu 24/12/20 Wed 20/10/21	
Statement submission and approval del, CSD & CBWD Submission & approval	300 days 120 days	Fri 25/12/20 Fri 25/12/20	Wed 20/10/21 Fri 23/4/21	
e Steelwork Connection Design Submission & BD approval e Steelwork Shop Drawing & Approval ladiding, louvre & windows submission & BD approval	45 days 30 days 45 days	Tue 29/12/20 Fri 12/2/21 Tue 29/12/20	Thu 11/2/21 Sat 13/3/21 Thu 11/2/21	
ladding, louvre & windows shop drawing submission Dff Site Fabrication and Delivery (S. Steel & Cladding & louvres)	45 days 120 days	Fri 12/2/21 Mon 29/3/21	Sun 28/3/21 Mon 26/7/21	
bmission and BD approval himney windshield temporary work submission, approval & fabrication ue Assessment Report and Design Drawings submission & approval	90 days 60 days 60 days	Fri 11/12/20 Fri 11/12/20 Tue 9/2/21	Wed 10/3/21 Mon 8/2/21 Fri 9/4/21	
Shutters Shop Drawing Submission & Approval ion & Delivery of Folding Shutters	30 days 180 days	Thu 11/2/21 Sat 13/3/21	Fri 12/3/21 Wed 8/9/21	
Pump System Design submission & approval ion & Delivery of Sewage Pump aterial submission & approval & delivery	45 days 180 days 180 days	Tue 23/2/21 Fri 9/4/21 Sat 24/4/21	Thu 8/4/21 Tue 5/10/21 Wed 20/10/21	
RUCTION	180 days 180 days 1123 days	Sat 24/4/21 Sat 24/4/21 Fri 4/12/20	Wed 20/10/21 Wed 20/10/21 Sun 31/12/23	
nation with the Employer's Specialist Contractors lation of Puddle Pipes at C.W. outlet Culvert	562 days 7 days	Fri 15/1/21 Mon 22/3/21	Sat 30/7/22 Sun 28/3/21	
lation of Puddle Pipes at C.W. Inlet Culvert late setting at L12 Turbo Block Foundation late setting of holding down bolts at HRSG column base	7 days 45 days 45 days	Thu 27/5/21 Tue 16/11/21 Fri 15/1/21	Wed 2/6/21 Thu 30/12/21 Sun 28/2/21	
m / channel base installation on top of transformer foundations at Transformer Area nead crane erection at turbine hall using access through a temporary opening at L12 MSB roof between GL12-G	45 days 38 days	Tue 1/6/21 Mon 1/11/21	Thu 15/7/21 Wed 8/12/21	
H and 12-2 to 12-6 enser assembly and erection using access through a temporary façade opening at L12 MSB below 1/F along GL from GL12-8 to 12-C including a clear space below 1/F between GL 12-8 to 12-C	122 days	Thu 16/12/21	Sat 16/4/22	
lation of power train equipment including air inlet duct using access through a temporary façade opening at L12 below 1/F along GL 12-6 from GL12-F to 12-H including a clear space below 1/F of the above area	121 days	Fri 1/4/22	Sat 30/7/22	
ation of embedded materials such as holding down bolts for equipment foundations - Commencement	0 days	Thu 15/4/21	Thu 15/4/21	
n A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to Chimney t Area F1 & F2	301 days	Fri 4/12/20	Thu 30/9/21	
Possession & Clearance tting / Fabrication / Delivery (both for Area F1 and Area F2) ation for CW Inlet Culvert (Type D Construction Area)	30 days 60 days 14 days	Fri 4/12/20 Sun 17/1/21 Tue 1/6/21	Sat 2/1/21 Wed 17/3/21 Mon 14/6/21	
ation CW Inlet Culvert pipe	70 days 7 days	Tue 15/6/21 Tue 24/8/21	Mon 23/8/21 Mon 30/8/21	
ruction UG Utilities 2m deep below further surface orary Paving and handover for plant erection A1 (iii) - Supporting structures for overhead cranes of L12 MSB including the associated roof	21 days 3 days 333 days	Tue 31/8/21 Tue 28/9/21 Fri 4/12/20	Mon 27/9/21 Thu 30/9/21 Mon 1/11/21	
1 A1 (i) - Supporting structures for overhead cranes of L12 MSB including the associated roof ire except the roof deferred workss Possession & Clearance	45 days	Fri 4/12/20 Fri 4/12/20	Sun 17/1/21	
tting / Fabrication / Delivery lete structural steel erection	210 days 0 days	Tue 23/2/21 Tue 19/10/21	Mon 20/9/21 Tue 19/10/21	
Crane Girders ruction of roof slab (except defer work) up and handover for install overhead cranes	11 days 14 days 3 days	Tue 12/10/21 Tue 12/10/21 Sat 30/10/21	Fri 29/10/21 Mon 1/11/21 Mon 1/11/21	
A 2 (i) External Works including CW Inlet Culvert at Area F8A nsent for Sheetpile installation	403 days 30 days	Fri 4/12/20 Fri 4/12/20	Mon 10/1/22 Sat 2/1/21	
tting / Fabrication / Delivery (both for Area F8A-F8B) Possession & Clearance	30 days 14 days	Fri 18/12/20 Sat 2/1/21 Sat 16/1/21	Sat 16/1/21 Fri 15/1/21 Thu 11/3/21	
Sheet pile ation of Additional sheet Pile at South of area F8A nosent for ELS	55 days 7 days 28 days	Sat 17/4/21 Sat 24/4/21	Fri 23/4/21 Fri 21/5/21	
Ind install CW Inlet Pipe (NW to N direction) (Assume flexible joint deliver in Sep 2021) ruction of Thrust Box & Manholes,etc	100 days 15 days	Fri 16/7/21 Thu 16/9/21	Sat 23/10/21 Thu 30/9/21	
III, UG Utilities and Road Paving n A2 (ii) External Works including CW Intet Culvert at Area F8B Possession & Clearance	79 days 483 days 30 days	Sun 24/10/21 Fri 4/12/20 Mon 1/3/21	Mon 10/1/22 Thu 31/3/22 Tue 30/3/21	
nsent for Sheetpile installation Sheet pile	30 days 90 days	Fri 4/12/20 Fri 2/4/21	Sat 2/1/21 Wed 30/6/21	
onsent for ELS ind install CW Inlet Pipe ruction of Thrust Box & Manholes,etc	28 days 100 days 15 days	Thu 1/7/21 Thu 29/7/21 Wed 1/9/21	Wed 28/7/21 Fri 5/11/21 Wed 15/9/21	
ill, UG Utilities and Road Paving n A2 (iii) External Works including CW Inlet Culvert at Area F8C	146 days 365 days	Sat 6/11/21 Fri 12/3/21	Thu 31/3/22 Fri 11/3/22	
Possession & Clearance tting / Fabrication / Delivery (for Area F8C)	30 days 60 days	Fri 12/3/21 Fri 12/3/21 Tue 13/4/21	Sat 10/4/21 Mon 10/5/21 Wed 12/5/21	
nsent for Sheetpile installation Sheet pile nseent for ELS	30 days 62 days 35 days	Thu 13/5/21 Wed 14/7/21	Tue 13/7/21 Tue 17/8/21	
Ind install CW Inlet Pipe (including soil nail installation under 19/83014) ruction of Thrust Box & Manholes,etc	76 days 30 days	Wed 18/8/21 Fri 21/1/22	Thu 20/1/22 Sat 19/2/22	
ill, UG Utilities and Road Paving n B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at Area F3	20 days 377 days	Sun 20/2/22 Fri 4/12/20	Fri 11/3/22 Wed 15/12/21	
	30 days 120 days	Fri 4/12/20 Fri 25/12/20	Sat 2/1/21 Fri 23/4/21	
Possession & Clearance tting / Fabrication / Delivery		Tue 25/5/21 Fri 9/7/21	Thu 8/7/21 Sat 7/8/21	
tting / Fabrication / Delivery Jele CW Pipe Installation & Thrust box il	45 days 30 days			
tting / Fabrication / Delivery Jete CW Pipe Installation & Thrust box Illion of Storm Drain & Manholes Paving and handver for Condenser Move in	30 days 67 days 20 days	Mon 20/9/21 Fri 26/11/21 Fri 1/1/21	Thu 25/11/21 Wed 15/12/21 Thu 30/9/21	
titing / Fabrication / Delivery elie CW Pipe Installation & Thrust box II Turction of Storm Drain & Manholes Paving and handover for Condenser Move in B2- (I) Southern part of L12 HRSG area and its surrounding at Area F6B including the tions for Gas Exhaust Duct Possession & Clearance	30 days 67 days 20 days 273 days 30 days	Mon 20/9/21 Fri 26/11/21 Fri 1/1/21 Fri 1/1/21	Wed 15/12/21 Thu 30/9/21 Sat 30/1/21	
titing / Fabrication / Delivery lee CW Pipe Installation & Thrust box iii ruction of Storm Drain & Manholes Paving and handover for Condenser Move in B2 - (1) Southern part of L12 HRSG area and its surrounding at Area F6B including the lions for Gas Exhaust Duct	30 days 67 days 20 days 273 days	Mon 20/9/21 Fri 26/11/21 Fri 1/1/21	Wed 15/12/21 Thu 30/9/21	

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	act No. 19/83002 Lamma Power Station Extension Civil and	Duration	Start	Finish			
ŀ	xcavation & Construct Pile Caps & Tie Beams & Piers stallation of Pipe Pile for HRSG foundation (VO)	86 days 48 days	Mon 8/3/21 Thu 25/3/21	Thu 19/8/21 Tue 11/5/21	Nav 2022	Dec 2022	
20	nstruction HRSG & Gas Duct foundation (VO) nstruction HRSG & Gas Duct foundations nstruction of HRSG Equipment Room incl. ABWF & BS (except T&C)	112 days 64 days	Fri 7/5/21 Tue 4/5/21	Fri 3/9/21 Thu 30/9/21			
Cor	nstruction underground utilities within HRSG kfill & Construction on-grade slabs & RC plinths on top	55 days 14 days	Mon 19/7/21 Fri 30/7/21	Sat 11/9/21 Mon 27/9/21			
3;	ackfill and Temporary paving tion B2 (ii) - Remaining northern part of LI2 HRSG area and its surrounding at Area F6A and F6C	21 days 319 days	Fri 10/9/21 Fri 1/1/21	Thu 30/9/21 Mon 15/11/21			
	a Possessiong and Clearance at Area F6A	30 days	Fri 1/1/21	Sat 30/1/21			
ŝu	bletting / Fabrication / Delivery (for Area F6A and F6C civil) nstruction of Underground pits (HRSG Blowdown sump pit)	90 days 110 days	Sat 2/1/21 Sat 2/1/21	Thu 1/4/21 Wed 21/4/21			
	xcavation & Construct Pile Caps & Tie Beams & Piers onstruction underground utilities within HRSG	139 days 55 days	Mon 1/2/21 Mon 19/7/21	Sat 10/7/21 Sat 11/9/21			
	onstruction of Underground pits (GT Oil & Chemical drain pits) ackfill & Construction on-grade slabs & RC plinths on top	15 days 45 days	Thu 5/8/21 Sun 12/9/21	Thu 19/8/21 Tue 26/10/21			
>	onstruct RC Walls	90 days 21 days	Thu 22/4/21 Tue 19/10/21	Tue 20/7/21 Mon 8/11/21			
Bac	Kill and Temporary paying on B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor together with the	7 days 452 days	Tue 9/11/21 Fri 4/12/20	Mon 15/11/21 Mon 28/2/22			
ui	pment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the installation of power rator, air inlet duct and lube oil reservoir	452 uays	F11 4/12/20	WOT 20/2/22			
4	ea Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21			
	ubletting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12) omplete excavation at Type A&C Construction Area	150 days 0 days	Fri 25/12/20 Sun 21/3/21	Sun 23/5/21 Sun 21/3/21			
E	xcavation & Pile Caps & Tie Beams + Slabs (Turbo Block North) ackfill and construction turbine block & equipment foundation	75 days 85 days	Sun 31/1/21 Tue 1/6/21	Thu 15/4/21 Tue 24/8/21			
Ċ	xcavation & Pile Caps & Tie Beams + Slabs (Turbo Block South) onstruction of internal drainage & on-grade slab	45 days 90 days	Sat 17/4/21 Wed 1/9/21	Mon 31/5/21 Mon 29/11/21			
	onstruction turbine block columns and upper portion for plant embed installation oncrete Turbine upper part foundation	83 days 15 days	Wed 25/8/21 Fri 31/12/21	Mon 15/11/21 Fri 14/1/22			
	onstruction of Lube Oil Room oncrete RC walls	14 days 115 days	Tue 30/11/21 Tue 7/9/21	Fri 28/1/22 Thu 30/12/21			
	BFW Works uilding Services Works	60 days 45 days	Thu 4/11/21 Sat 15/1/22	Sun 2/1/22 Mon 28/2/22			
ł	emove temporary falsework and scaffolding for installation of power generator tion B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit and	13 days 377 days	Mon 7/2/22 Fri 4/12/20	Sat 19/2/22 Wed 15/12/21			
ui	pment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation of condenser						
rea	Possession & Clearance tting / Fabrication / Delivery (for MSB L12 civil)	45 days 150 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Sun 23/5/21			
xca	avation to foundation level at ELS SP Type A & C	80 days	Fri 1/1/21	Sun 21/3/21			
>	stall CW Outlet pipe onstruction of CW Outlet Box + lowest tie beam & caps	85 days 40 days	Mon 22/3/21 Mon 22/3/21	Mon 14/6/21 Fri 30/4/21			
Bai	nstruction of pile caps & tie beams & sump pits up to +2.7mPD ckfill & Construction of CW Inlet Box + tie beams	26 days 71 days	Sat 1/5/21 Thu 27/5/21	Wed 26/5/21 Thu 5/8/21			
3;	onstruction of pile caps & tie beams at SunShadeCover Area ackfill and Construction ground beams & trenches	45 days 28 days	Tue 15/6/21 Thu 27/5/21	Thu 29/7/21 Mon 5/7/21			
3	onstruction of indoor underground drainage ackfill & construction on-grade slabs	14 days 60 days	Fri 13/8/21 Sun 1/8/21	Thu 26/8/21 Wed 29/9/21			
	onstruction Column casting and RC walls & equipment foundations BFW Works	50 days 15 days	Thu 30/9/21 Fri 19/11/21	Thu 18/11/21 Fri 3/12/21			
	likiling Services Works lis. Works and Ready for condenser move in	20 days 25 days	Fri 26/11/21 Wed 17/11/21	Wed 15/12/21 Wed 15/12/21			
	is. Works and Heady for condenser move in tion C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in addition to the thern & eastern areas mentioned above in Area F5	408 days	Fri 4/12/20	Sat 15/1/22			
١	rea Possession & Clearance	30 days	Fri 4/12/20	Sat 2/1/21			
	ubletting / Fabrication / Delivery omplete substructure & Steel Erection works for MSB	210 days 0 days	Fri 25/12/20 Tue 17/8/21	Thu 22/7/21 Tue 17/8/21			
	onstruction all utilities deeper than 2m from future road level	30 days 30 days	Wed 18/8/21 Fri 17/9/21	Thu 16/9/21 Sat 16/10/21			
	ackfill and lay temporary paving ttion C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of L12 MSB	91 days 483 days	Sun 17/10/21 Fri 4/12/20	Sat 15/1/22 Thu 31/3/22			
it o	h all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert except the deferred rks						
١	rea Possession & Clearance ubletting / Fabrication / Delivery	45 days 120 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Fri 23/4/21			
) or	isitung / Rubication / Delivery Istruction of pile caps & tie beams at Transformer Area :kfill and on-grade slab at transformer Area	180 days 160 days	Sun 31/1/21 Sun 11/4/21	Thu 29/7/21 Thu 7/10/21			
2	ackill and on-grade state at transformer Area onstruction of Fire Walls at Transformer Area xevarition & Construction Blow Down Sum pit (SP Type B)	45 days 140 days	Fri 8/10/21 Wed 14/4/21	Sun 21/11/21 Tue 31/8/21			
'n	eaparation for S.Steelwork Erection	7 days	Sat 5/6/21	Fri 11/6/21			
	tructural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B) tructural Delivery & Erection (Equipment Floors)	67 days 33 days	Sat 12/6/21 Wed 18/8/21	Tue 17/8/21 Sun 19/9/21			
J	tructural Delivery & Erection (Turbine Hall South + East Elevation) Dint Tightening and touch up coating	47 days 99 days	Mon 20/9/21 Sat 3/7/21	Mon 15/11/21 Wed 24/11/21			
C	xternal Scaffolding Erection onstruction 1/F RC Stab	97 days 14 days	Thu 15/7/21 Mon 20/9/21	Mon 22/11/21 Sun 3/10/21			
C	onstruction 2/F RC Slab onstruction 3/F RC Slab	7 days 18 days	Mon 27/9/21 Thu 30/9/21	Sun 10/10/21 Sun 17/10/21			
¢	onstruction 4/F RC Slab onstruction 5/F RC Slab	7 days 44 days	Thu 7/10/21 Mon 25/10/21	Sun 24/10/21 Tue 7/12/21			
C	onstruction 6/F RC Stab onstruction Upper Roof RC Stab	14 days 10 days	Wed 1/12/21 Sun 12/12/21	Tue 14/12/21 Fri 24/12/21			
C	onstruction Defer Roof RC Slab onstruction Defer Roof RC Slab (G.L. G-H)	39 days 14 days	Tue 12/10/21 Wed 1/12/21	Fri 19/11/21 Tue 14/12/21			
C	onstruction MF RC Slab onstruction MF RC Slab	130 days 14 days	Fri 27/8/21 Wed 1/9/21	Mon 3/1/22 Tue 14/9/21			
	fit Installation onstruction of Staircase ST-02 except defer work	60 days 68 days	Tue 4/1/22 Mon 11/10/21	Fri 4/3/22 Fri 24/12/21			
	onstruction of RC plinth, kerbs & parapet Walls	40 days	Sat 20/11/21	Wed 29/12/21			
١	rection of Skylight & Roof Features laterproofing & Flooring at Roof	50 days 34 days	Fri 26/11/21 Thu 30/12/21	Fri 14/1/22 Thu 17/2/22			
5	BFW Works uilding Services Works	100 days 105 days	Fri 8/10/21 Tue 16/11/21	Sat 15/1/22 Mon 28/2/22			
łe	tal Cladding, Windows and Louvres incl. roof feature moval of external scaffolding	185 days 90 days	Mon 23/8/21 Wed 1/12/21	Wed 23/2/22 Mon 28/2/22			
)	stallation of Catwalk at south elevation ladding, ABWF & BS Works	26 days 30 days	Mon 31/1/22 Wed 2/3/22	Tue 1/3/22 Thu 31/3/22			
Rei	noval of tempoary works & clearance for plant erection contractor on C - (iii) Link Bridge between L11 and L12 MSB includin their associated A&A at L11 MSB	30 days 493 days	Sun 30/1/22 Fri 4/12/20	Mon 28/2/22 Sun 10/4/22			
	Consent	0 days	Fri 4/12/20	Fri 4/12/20			
Sub	eletting / Fabrication / Delivery (For BS and ABWF)	250 days	Fri 25/12/20 Fri 25/12/20 Fri 3/12/21	Tue 31/8/21 Sat 1/1/22			
Dis	earing Works and plant set-up mantle of north scaffold for link bridge erection	30 days 0 days	Tue 25/1/22	Tue 25/1/22			
	&A works at South of L11 MSB rection of link bridge structural steel	30 days 30 days	Fri 3/12/21 Sun 2/1/22	Sat 1/1/22 Mon 31/1/22			
Ņ	asting of bridge deck letal roofing installation	11 days 24 days	Tue 1/2/22 Sat 12/2/22	Fri 11/2/22 Mon 7/3/22			
	BWF work S Works	30 days 20 days	Sun 20/2/22 Tue 22/3/22	Mon 21/3/22 Sun 10/4/22			
	eady for power cable laying work by others ttion D - (ii) No. 5 Chimney with L12 Steel Flue Liner	0 days 810 days	Sun 10/4/22 Fri 1/1/21	Sun 10/4/22 Tue 21/3/23	c.D(v)		
١	ea Possession & Clearance ubletting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and Equipment)	45 days 120 days	Fri 1/1/21 Fri 8/1/21	Sun 14/2/21 Fri 7/5/21			
x	wer Crane erection	90 days 30 days	Sat 2/1/21 Tue 11/5/21	Thu 1/4/21 Wed 9/6/21			
λ	onstruction of Wind Shiled + clearance for internal floors and flue+Ground slab	308 days	Fri 2/4/21	Mon 4/4/22			
	tructural steel fabrication & Delivery for floors and staircase rection of steel floors exection of steel floors execting the former and there are a statement of the statement	201 days 79 days	Mon 3/1/22 Tue 19/4/22	Fri 22/7/22 Wed 6/7/22			
¢	onstruction of G/F room incl. Microwave Antenna Rm onstruction of 1/F RC slab	45 days 8 days	Thu 7/7/22 Sat 13/8/22	Sat 20/8/22 Sat 20/8/22			
	onstruction of 2/F RC Slab onstruction of 3/F RC slab	8 days 8 days	Fri 5/8/22 Thu 28/7/22	Fri 12/8/22 Thu 4/8/22			
C	onstruction of 4/F RC slab onstruction of Roof RC slab	8 days 61 days	Thu 7/7/22 Tue 21/6/22	Thu 14/7/22 Sat 20/8/22			
F	teel Flue fabrication and delivery	7 days 145 days	Sun 21/8/22 Sat 5/3/22	Sat 27/8/22 Wed 27/7/22			
S	et up for steel flue installation	60 days	Tue 5/7/22 Thu 28/7/22	Fri 2/9/22 Wed 4/1/23			
	It & install steel flue liner + cladding works ft installation	161 days 100 days	Mon 12/12/22	Tue 21/3/23			
Ais	iallation Louvre & Doors works, Demobilization and ready for gas duct connection	30 days 17 days	Thu 5/1/23 Thu 5/1/23	Fri 3/2/23 Sat 21/1/23			
ct ta	ion D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney Windshield for Illation of microwave and antenna	102 days	Tue 1/3/22	Fri 10/6/22			
Com	pletion of Microwave Antenna Room aining ABWF & BS Works	0 days 100 days	Tue 1/3/22 Thu 3/3/22	Tue 1/3/22 Fri 10/6/22			
ctic	on E - (i) Administration and Control Building (Transformer Room)	332 days	Fri 4/12/20 Fri 4/12/20	Sun 31/10/21 Mon 1/2/21			
	rea Possession & Clearance + BD consent ubletting / Fabrication / Delivery (For Civil+BS+ABWF) vegention under	60 days 100 days	Tue 2/2/21	Wed 12/5/21			
Ν	xcavation works Jain Earth Grid Installation	45 days 45 days	Fri 4/12/20 Sun 3/1/21	Sun 17/1/21 Tue 16/2/21			
T	ile cap and Tie Beam ower Crane Erection and modification works	45 days 49 days	Sun 3/1/21 Wed 10/2/21	Tue 16/2/21 Tue 30/3/21			
S	ubstructure + Bearing walls + On grade slabs onstruction of RC up to 1/F incl. staircases	115 days 69 days	Wed 17/2/21 Sat 12/6/21	Fri 11/6/21 Thu 19/8/21			
	BWF at G/F ttion E (ii) Handover G/F, 1/F, 2/F & Hoisting Well	52 days 452 days	Fri 10/9/21 Fri 4/12/20	Sun 31/10/21 Mon 28/2/22			
	learing Works and plant set-up	21 days	Sun 31/10/21	Sat 20/11/21			
e (ubletting / Fabrication / Delivery (For NSC Lift)	180 days 25 days	Sun 3/1/21 Sat 14/8/21	Sat 31/7/21 Mon 13/9/21			
	onstruction of RC up to 2/F incl. staircases						
	onstruction of RC up to 3/F incl. staircases empoary Hoist erection	20 days 14 days	Thu 2/9/21 Wed 22/9/21	Tue 21/9/21 Tue 5/10/21			
Ction Cleari Sublet Const Const Const	ruction of RC up to 3/F incl. staircases	14 days 20 days	Thu 2/9/21 Wed 22/9/21 Thu 16/9/21	Tue 5/10/21 Tue 5/10/21 Tue 5/10/21			

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Task Name	Power Station Extension Civi	Duration	Start	Finish		Master Program
Construction of RC up to R/F incl. staircases		25 days	Thu 30/9/21 Mon 25/10/21	Sun 24/10/21 Sun 14/11/21	Nov 2022 Dec 2022	Jan 2023
Construction of RC up to lift machine room Construction of RC up to UR/F		21 days 21 days	Mon 15/11/21	Sun 5/12/21		
External Wall Finish, Cladding + Windows and ABWF at 1/F	Juvres + Features	138 days 95 days	Thu 30/9/21 Fri 8/10/21	Mon 14/2/22 Mon 10/1/22		
ABWF at 2/F Building Services Works at G/F, 1/F, 2/F & Hoi	ing Well	96 days 147 days	Fri 15/10/21 Tue 5/10/21	Tue 18/1/22 Mon 28/2/22		
Section E (iii) Whole of Administration and Subletting / Fabrication / Delivery (For BS+ABV	Control Building	544 days 127 days	Fri 4/12/20 Sat 23/10/21	Tue 31/5/22 Sun 20/3/22		
Construction of New UG Grey Water Tank	1	60 days	Mon 20/3/23	Thu 18/5/23		
Submission of WW046 for commencement ABWF at 3/F		60 days 120 days	Wed 19/1/22 Mon 25/10/21	Sat 19/3/22 Mon 21/2/22		
ABWF at 4/F ABWF at R/F		90 days 60 days	Wed 24/11/21 Wed 15/12/21	Mon 21/2/22 Sat 12/2/22	_	
ABWF at UR/F + Lift Machine Room Bridge Erection & Connection		45 days 28 days	Wed 5/1/22 Mon 7/2/22	Fri 18/2/22 Mon 28/3/22		
Installation of Raised floors		60 days	Fri 7/1/22	Fri 29/4/22		
Removal of external scaffolding Waterproofing & screeding		39 days 60 days	Mon 24/1/22 Mon 6/12/21	Wed 9/3/22 Thu 3/2/22	_	
Removal of Tower Crane External utiliites and road work		7 days	Thu 10/3/22 Tue 8/2/22	Wed 16/3/22 Thu 14/4/22		
Building Services Works		45 days 160 days	Tue 7/12/21	Sun 15/5/22		
False ceiling after BS works Submission of WW046 for completion		54 days 30 days	Tue 29/3/22 Wed 9/3/22	Sat 21/5/22 Thu 7/4/22		
Submission of FS inspection Submission for OP Inspection		14 days 14 days	Fri 13/5/22 Wed 18/5/22	Thu 26/5/22 Tue 31/5/22		
Section F (i) - Gas Receiving Station and L	2 Gas Receiving Station Equipment Room (GRS) A		Tue 1/6/21	Wed 30/11/22		
Extension at Area F14 Area Possession & Clearance + BD consent		90 days	Tue 1/6/21	Sun 29/8/21		
Subletting / Fabrication / Delivery Installation of pipe pile at north of GRS (VO)		30 days 134 days	Tue 22/6/21 Mon 5/7/21	Wed 21/7/21 Mon 15/11/21		
Construction Equipment room extension		145 days	Sun 31/10/21	Thu 24/3/22		
Modification of existing drainage Excavation & earthing for Skid foundations		45 days 21 days	Fri 25/3/22 Mon 9/5/22	Sun 8/5/22 Sun 29/5/22		
Construction of Skid foundation		45 days	Mon 30/5/22 Thu 14/7/22	Wed 13/7/22		
Construct underground utilities and drainage Backfill and road works		45 days 60 days	Sun 28/8/22	Sat 27/8/22 Wed 26/10/22	and road works	
Relocate / install new fencing for completion Mis. Work and ready for OP inspection		21 days 14 days	Thu 27/10/22 Thu 17/11/22	Wed 16/11/22 Wed 30/11/22	Belocate / install new fencing for completion Mis. Work and ready for OP inspection	
Section F (ii) - Pipe and Cable rack and ex	rnal work at Area F9A and F9B	515 days	Sat 2/1/21	Tue 31/5/22		
BD consent + Site Possession at Area F9A & F Excavation & Plate load test	3	90 days 30 days	Sat 2/1/21 Mon 1/11/21	Thu 1/4/21 Tue 30/11/21	-	
Construction new footing for pipe rack Underground utilities and road works for compl	ion	30 days 11 days	Wed 1/12/21 Thu 31/3/22	Thu 30/12/21 Tue 31/5/22		
Structural Steel fabrication & Delivery		90 days	Sat 2/10/21	Thu 30/12/21		
Ercetion of new pipe rack Mis. Work and ready for OP inspection		70 days 21 days	Fri 31/12/21 Wed 11/5/22	Thu 10/3/22 Tue 31/5/22	-	
Section F (iii) - No. 5 CW Equipment Room Area Possession & Clearance + BD consent	pipe and cable rack, external works at Area F10	457 days 90 days	Tue 1/6/21 Tue 1/6/21	Wed 31/8/22 Sun 29/8/21	-	1
Subletting / Fabrication / Delivery For ABWF +	S	150 days	Wed 2/6/21	Fri 29/10/21		
Installation of Sheet Pile (VO) Consent for ELS Works		85 days 28 days	Tue 1/6/21 Wed 25/8/21	Tue 24/8/21 Tue 21/9/21	_	1
Excavation & Plate load test Construction new footing for equipment room		30 days 68 days	Wed 22/9/21 Thu 23/12/21	Thu 21/10/21 Mon 28/2/22		
Superstructure for equipment room		60 days	Tue 1/3/22	Fri 29/4/22		
ABWF Works BS Works		45 days 30 days	Sat 30/4/22 Wed 1/6/22	Mon 13/6/22 Thu 30/6/22	_	
Construction RC Wall & plinths & drainage at C External wall finish & remove scaffolding	lorinator area	45 days 30 days	Wed 30/3/22 Sat 14/5/22	Fri 13/5/22 Sun 12/6/22	_	
Excavation & Plate load test for pipe rack exter	ion (For F45-47 & F49)	30 days	Sat 16/10/21	Sun 14/11/21		
Construction new footing for pipe rack (For F4 Underground utilities and road works for compl	47 & F49)	45 days 60 days	Mon 15/11/21 Thu 30/12/21	Wed 29/12/21 Sun 27/2/22		
Structural Steel fabrication & Delivery		90 days	Sun 12/12/21	Fri 11/3/22		
Backfilling and prepare for steel erection Excavation & Plate Load test for pipe rack external	stion (For F48 F56)	12 days 14 days	Mon 28/2/22 Wed 30/3/22	Fri 11/3/22 Tue 12/4/22		
Construction of new footing for pipe rak (For F- Erection of new pipe rack (For F48 & F56)	& F56)	14 days 65 days	Wed 13/4/22 Tue 3/5/22	Tue 26/4/22 Wed 6/7/22		
Erection of new pipe rack (For F45-47 & F49)		70 days	Sat 12/3/22	Fri 20/5/22		
Mis. Work and ready for OP inspection Section G (i) - External Work surrounding	rea F11	56 days 145 days	Thu 7/7/22 Sat 4/6/22	Wed 31/8/22 Wed 26/10/22	'22	
Area Possession & Clearance after handover f Subletting / Fabrication / Delivery		30 days 30 days	Sat 4/6/22 Sat 4/6/22	Sun 3/7/22 Sun 3/7/22		
Submission WWO046 for commencement		30 days	Sat 4/6/22	Sun 3/7/22		
Construct Underground utilities and drainage Install new FS Hydrant		30 days 20 days	Mon 20/6/22 Mon 20/6/22	Tue 19/7/22 Sat 9/7/22	_	
Submission WWO046 for completeion Construction Road extension		30 days 58 days	Sat 30/7/22 Sat 30/7/22	Sun 28/8/22 Sun 25/9/22		
Construction road paving and install fencing		30 days	Mon 26/9/22	Tue 25/10/22	tion road paving and install fencing	
Ready for OP inspection Section G (ii) - External Works at Area F12	L F13	14 days 666 days	Thu 13/10/22 Fri 4/12/20	Wed 26/10/22 Fri 30/9/22	or OP inspection	
Area Possession & Clearance after handover f	m other	45 days	Fri 4/12/20	Sun 17/1/21		
Subletting / Fabrication / Delivery Excavation		180 days 21 days	Thu 4/3/21 Sat 23/10/21	Mon 30/8/21 Fri 12/11/21		
Submission WWO046 for commencement Construct Underground utilities and drainage		30 days 90 days	Sat 13/11/21 Mon 13/12/21	Sun 12/12/21 Sat 12/3/22		
Install new FS Hydrant		30 days	Sun 13/3/22	Mon 11/4/22		
Submission WWO046 for completion Construction Road extension		30 days 127 days	Tue 12/4/22 Thu 12/5/22	Wed 11/5/22 Thu 15/9/22		
Complete with Mis. Works for completion Section G (iii) - FS Modification works alon	South Seafront Road at Area F15	15 days 183 days	Fri 16/9/22 Fri 1/4/22	Fri 30/9/22 Fri 30/9/22		
Area Possession & Clearance after handover f		45 days	Fri 1/4/22	Sun 15/5/22		
Subletting / Fabrication / Delivery Temporary Traffice Arrangement approval		21 days 14 days	Fri 1/4/22 Fri 1/4/22	Thu 21/4/22 Thu 14/4/22		
Utilities scanning and expose existing FS		14 days	Fri 15/4/22 Fri 29/4/22	Thu 28/4/22		
Determine new FS alignment Submission to FSD		21 days 14 days	Fri 20/5/22	Thu 19/5/22 Thu 2/6/22		
Modification of FS Backfill and reinstatment + report to FSD		60 days 60 days	Fri 3/6/22 Tue 2/8/22	Mon 1/8/22 Fri 30/9/22		
Section G (iv) - 275kV cable trenches and	xternal Works at Area F16	518 days	Sat 1/5/21	Fri 30/9/22		
Area Possession & Clearance Subletting / Fabrication / Delivery		60 days 210 days	Sat 1/5/21 Wed 17/11/21	Tue 29/6/21 Tue 14/6/22		
Temporary Traffice Arrangement approval Removal of aboveground services		60 days 60 days	Sat 1/5/21 Wed 30/6/21	Tue 29/6/21 Sat 28/8/21		
Utilities scanning and expose exising UU		30 days	Sun 29/8/21	Mon 27/9/21		
Arrange of diversion existing UG utilities Construct new cable trenches		90 days 173 days	Tue 28/9/21 Mon 27/12/21	Sun 26/12/21 Fri 17/6/22		
Realigment / install new UG utilities Backfill and reinstate & ready for cable laying b	others	60 days 45 days	Sat 18/6/22 Wed 17/8/22	Tue 16/8/22 Fri 30/9/22	iel.2	
Section G (v) - Shunt Reactor Compound a		666 days	Fri 4/12/20	Fri 30/9/22		
Temporary Traffice Arrangement approval Subletting / Fabrication / Delivery		45 days 100 days	Fri 4/12/20 Fri 25/12/20	Sun 17/1/21 Sat 3/4/21		
BD approval & consent for pipe pile installation Area Possession & Clearance		90 days 14 days	Fri 4/12/20 Thu 4/3/21	Wed 3/3/21 Wed 17/3/21		
Removal of aboveground services		21 days	Thu 18/3/21	Wed 7/4/21		
Utilities scanning and expose exising UU Arrange of diversion existing UG utilities		15 days 45 days	Thu 8/4/21 Fri 23/4/21	Thu 22/4/21 Sun 6/6/21		
Install pipe piles BA14 for pipepile and BD consent for ELS		61 days 28 days	Sun 23/5/21 Fri 23/7/21	Thu 22/7/21 Thu 19/8/21	-11	
Excavation & install earthing		35 days	Fri 20/8/21	Thu 23/9/21		
Construct Pile Caps and Tie Beams Backfill & Erect scaffold		45 days 21 days	Fri 24/9/21 Mon 8/11/21	Sun 7/11/21 Sun 28/11/21	-11	
Construction of SRC Walls Wall finish and remove scaffolding		75 days 24 days	Mon 29/11/21 Sat 12/2/22	Fri 11/2/22 Mon 7/3/22		
Construct new cable trenches	.,	60 days	Tue 8/3/22	Fri 6/5/22		
Install new UG Utilties, Backfill and reinstate & Realigment / install new UG utilities (for DAX2,	(PX1 & APX3)	55 days 117 days	Thu 7/4/22 Sat 7/5/22	Tue 31/5/22 Wed 31/8/22		
Backfill and reinstate & ready for cable laying b	others (for DAX2, APX1, & APX3)	30 days	Thu 1/9/22 Sat 1/5/21	Fri 30/9/22 Wed 1/6/22	ers (for DAX2, APX1, & APX3)	
Section G (vi) - 275kV cable trenches and Temporary Traffice Arrangement approval	TUTTO IL AICA FIO	397 days 45 days	Sat 1/5/21	Mon 14/6/21		
Subletting / Fabrication / Delivery Area Possession & Clearance		60 days 15 days	Tue 15/6/21 Sat 1/5/21	Fri 13/8/21 Sat 15/5/21		
Removal of aboveground services Utilities scanning and expose exising UU		30 days 45 days	Sun 16/5/21 Tue 15/6/21	Mon 14/6/21 Thu 29/7/21		
Arrange of diversion existing UG utilities		60 days	Fri 30/7/21	Mon 27/9/21		
Construct new cable trenches Realigment / install new UG utilities		172 days 45 days	Tue 28/9/21 Sat 19/3/22	Fri 18/3/22 Mon 2/5/22		
Backfill and reinstate & ready for cable laying b		30 days	Tue 3/5/22	Wed 1/6/22		
Section G (vii) - Flood wall at No. 5 CW Int Area Possession & Clearance	e Area along nuA at Area F20A	521 days 30 days	Fri 4/12/20 Fri 4/12/20	Sun 8/5/22 Sat 2/1/21		
Subletting / Fabrication / Delivery		60 days	Fri 25/12/20 Fri 4/12/20	Mon 22/2/21	_	
Temporary Traffice Arrangement approval ELS BD approval & consent		300 days 90 days	Fri 18/12/20	Wed 29/9/21 Wed 17/3/21		
Demolition of existing carriageway Removal of aboveground services		30 days 21 days	Thu 11/11/21 Thu 30/9/21	Fri 10/12/21 Wed 20/10/21		
Utilities scanning and expose exising UU		21 days	Thu 21/10/21	Wed 10/11/21		
Arrange of diversion existing UG utilities Excavation and construction of new Flood wall		30 days 65 days	Sat 11/12/21 Mon 10/1/22	Sun 9/1/22 Tue 15/3/22		
Realigment / install new UG utilities		30 days	Wed 16/3/22	Thu 14/4/22	-1	
Backfill and construct new carriageway		18 days 6 days	Fri 15/4/22 Tue 3/5/22	Mon 2/5/22 Sun 8/5/22	-1	
Mis. Work for completion	ke Area along HUA at Area F20B	365 days	Fri 1/10/21	Fri 30/9/22	<mark>-</mark>	
Section G (viii) - Flood wall at No. 5 CW In		45 days	Fri 1/10/91			
Section G (viii) - Flood wall at No. 5 CW In Area Possession & Clearance Subletting / Fabrication / Delivery		45 days 90 days	Fri 1/10/21 Fri 22/10/21	Sun 14/11/21 Wed 19/1/22		
Section G (viii) - Flood wall at No. 5 CW In Area Possession & Clearance		45 days 90 days 14 days 90 days				

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me	Duration	Start	Finish	Nov 2022 Dec 2022 Jan 2023
emolition of existing carriageway emoval of aboveground services	60 days 21 days	Fri 1/10/21 Tue 30/11/21	Mon 29/11/21 Mon 20/12/21	
tilities scanning and expose exising UU rrange of diversion existing UG utilities	21 days 30 days	Tue 21/12/21 Tue 11/1/22	Mon 10/1/22 Wed 9/2/22	
stall Sheetpiles A14 for sheetpile and BD consent for ELS	55 days 28 days	Thu 10/2/22 Wed 6/4/22	Tue 5/4/22 Tue 3/5/22	
xcavation and construction of new Flood wall	90 days	Wed 4/5/22	Mon 1/8/22	
ealigment / install new UG utilities ackfill and construct new carriageway	30 days 21 days	Tue 2/8/22 Thu 1/9/22	Wed 31/8/22 Wed 21/9/22	
is. Work for completion tion G (ix) - Bund wall modification works at South Seafront Road at Area F21	9 days 316 days	Thu 22/9/22 Fri 4/12/20	Fri 30/9/22 Fri 15/10/21	
ea Possession & Clearance	45 days	Fri 4/12/20	Sun 17/1/21	
ubletting / Fabrication / Delivery emporary Traffice Arrangement approval	90 days 165 days	Fri 25/12/20 Fri 4/12/20	Wed 24/3/21 Mon 17/5/21	
LS BD approval & consent emolition of existing carriageway	0 days 14 days	Thu 17/12/20 Tue 18/5/21	Thu 17/12/20 Mon 31/5/21	
emoval of aboveground services Illities scanning and expose exising UU	14 days 21 days	Tue 1/6/21 Tue 15/6/21	Mon 14/6/21 Mon 5/7/21	
rrange of diversion existing UG utilities (include FS pipe under 17/8002)	40 days	Tue 6/7/21	Sat 14/8/21	
xcavation and expose existing bund wall & demolish onstruction new bund wall for road junction	18 days 21 days	Wed 28/7/21 Sat 4/9/21	Sat 14/8/21 Fri 24/9/21	
ealigment / install new UG utilities (include FS pipe under 17/8002) ackfill and construct new carriageway	60 days 16 days	Sun 1/8/21 Thu 30/9/21	Wed 29/9/21 Fri 15/10/21	
is. Work for completion	5 days	Mon 11/10/21	Fri 15/10/21 Sat 31/12/22	7 31 Dec '22
ttion G (x) - DAX Cable Diversion Works (from Part I to Part IV) emporary Traffice Arrangement approval	758 days 14 days	Fri 4/12/20 Fri 4/12/20	Thu 17/12/20	
ubletting / Fabrication / Delivery rea Possession & Clearance	90 days 45 days	Fri 25/12/20 Fri 4/12/20	Wed 24/3/21 Sun 17/1/21	
lentification of existing cable trench art 1 Re-excavation works incl.construction of joint bay (at Water Reservoir Road)	7 days 246 days	Mon 18/1/21 Mon 25/1/21	Sun 24/1/21 Mon 27/9/21	
art 1 Re-excavation works incl construction of joint bay (at water reservoir road) are on revised routing)	310 days	Mon 25/1/21	Tue 30/11/21	
art 2 Re-excavation works incl. joint bay	120 days	Mon 1/11/21	Mon 28/2/22	
art 3 Re-excavation works incl. joint bay art 4 Re-excavation works incl. joint bay & new oil tank pits	242 days 92 days	Mon 1/11/21 Sat 1/10/22	Thu 30/6/22 Sat 31/12/22	Part 4 Re-excavation works incl. join
ackfill & Reinstatement Part 1	61 days	Mon 1/11/21 Sun 1/5/22	Fri 31/12/21	
ackfill & Reinstatement Part 3	61 days 61 days	Thu 1/9/22	Thu 30/6/22 Mon 31/10/22	-Backfill & Reinstatement Part 3
tion H - All remaining works shall be completed for reporting completion to BD and ready for OP pection (PS1.4.4)	775 days	Wed 17/11/21	Sun 31/12/23	huna
eferred works (MSB & HRSG) Listed in PS 1.4.4 Construction ofL12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the	272 days	Wed 17/11/21	Mon 15/8/22 Fri 7/1/22	
Employer's Specialist Contractors	38 days	Wed 17/11/21		
Construction of walls ofL12 MSB below 1/F along GL 12-6 from GL12-B to 12-C and the associated staircases including the enclosure walls between G/F and 1/F. The Contractor shall allow access for the Employer's Specialist	92 days	Mon 16/5/22	Mon 15/8/22	up walls between G/F and 1/F. The Contractor shall allow access for the Employer's Specialist Contractors to use the hoisting we
Contractors to use the hoisting we Provision in associated with hoisting well	21 days	Mon 6/6/22	Sun 26/6/22	-1
Construction of internal partition wall at 1/F ofL12 MSB along GL 12-C from GL 12-2 to 12-3 AND North Façade at	30 days	Sat 16/4/22	Sun 15/5/22	
1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C Construction of metal fence and the associated Fire Services (F.S.) installations and installation of removable	92 days	Mon 16/5/22	Mon 15/8/22	er Area
shelter at Transformer Area eferred works (DAX1 and DAX2) Listed in PS 1.4.4	334 days	Wed 1/2/23	Sun 31/12/23	
Backfilling of whole DAXI compartment inside existing joint bay "STJI2" and the new oil tank pit A located aside existing joint bay "STJI2".	59 days	Wed 1/2/23	Fri 31/3/23	
Re-excavation of whole DAX2 compartment inside existing joint bay "STJI2".	61 days	Tue 1/8/23	Sat 30/9/23	
Backfilling of whole DAX2 compartment inside existing joint bay "STJI2" and the new oil tank pit B located aside existing joint bay "STJI2".	61 days	Wed 1/11/23	Sun 31/12/23	
eferred works (External Work) Listed in PS 1.4.4 Final reinstatement of access roads and pavement surrounding and within L12 MSB and L12 HRSG area	121 days 62 days	Thu 1/12/22 Thu 1/12/22	Fri 31/3/23 Tue 31/1/23	1 Dec '22
		Sun 1/1/23		
Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.	90 days		Fri 31/3/23	
Backfilling and road-reinstatement of 275kV cable trenches All Remaining work ready for OP inspection	90 days 0 days	Sun 1/1/23 Tue 28/2/23	Fri 31/3/23 Tue 28/2/23	
TUTORY SUBMISSION, INSPECTION & APPROVAL	560 days	Tue 16/11/21	Mon 29/5/23	
D Statutory Submission, Inspection and Approval WWO Part I to III Submission / Approval SD : Submit to WSD Form WWO 046 Part I to III - FOR ACB Building (for Ext Works at later stage)	256 days 0 days	Tue 16/11/21 Tue 16/11/21	Fri 29/7/22 Tue 16/11/21	-
/SD: Vetting Form WWO 046 Part I and II Submission /SD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building	90 days 0 days	Wed 17/11/21 Tue 15/2/22	Mon 14/2/22 Tue 15/2/22	
/SD: Prepare for 1st Amendment for Plumbing Plan /SD: Submit to WSD 1st Amendment for Plumbing Plan	60 days 0 days	Tue 15/2/22 Fri 15/4/22	Fri 15/4/22 Fri 15/4/22	
/SD: Vetting of Plumbing Plan by WSD	60 days	Sat 16/4/22	Tue 14/6/22	
VSD: 1st Approval for Plumbing Plan by WSD VSD: Prepare and Submit for Final Amendment for Plumbing Plan	0 days 45 days	Tue 14/6/22 Wed 15/6/22	Tue 14/6/22 Fri 29/7/22	
VSD: Vetting and Final Approval for Plumbing Plan by WSD D Statutory Submission, Inspection and Approval WWO Part IV to V Fire Services Water Submission /	0 days 33 days	Fri 29/7/22 Fri 29/7/22	Fri 29/7/22 Wed 31/8/22	
oroval VSD: Form WWO 046 Part IV Submission (FS)	0 days	Fri 29/7/22	Fri 29/7/22	
VSD: WSD Recieved Form WWO046 Part IV and arrange for inspection (FS)	7 days	Sat 30/7/22	Fri 5/8/22	
VSD: WSD Inspection (FS) VSD: WWO 046 Part V Endorsement by WSD (FS)	7 days 12 days	Sat 6/8/22 Sat 13/8/22	Fri 12/8/22 Wed 24/8/22	
VSD: WSD Processing Water Supply Connection Certificate (FS) VSD: Issue by WSD Water Supply Connection Certificate (FS)	7 days 0 days?	Thu 25/8/22 Wed 31/8/22	Wed 31/8/22 Wed 31/8/22	
D Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission /	60 days	Fri 19/8/22	Tue 18/10/22	
proval VSD: Form WWO 046 Part IV Submission (Fresh/Flush)	0 days	Fri 19/8/22	Fri 19/8/22	
VSD: WSD Acknowledge Form WWO 046 VSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	6 days 12 days	Sat 20/8/22 Fri 26/8/22	Thu 25/8/22 Tue 6/9/22	
VSD: Cleansing/Disinfecting Water Tanks / Piping System (Fresh/Flush) VSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	6 days 12 days	Wed 7/9/22 Tue 13/9/22	Mon 12/9/22 Sat 24/9/22	h Flush)
VSD:Accredited Lab Testing Report of Sample to WSD	12 days	Sun 25/9/22	Thu 6/10/22	mple to WSD WSD
/SD: Vetting of Test Report by WSD /SD: Issue of WWO 046 Part V (Fresh/Flush)	6 days 0 days	Fri 7/10/22 Wed 12/10/22	Wed 12/10/22 Wed 12/10/22	/ (Fresh/Flush)
/SD: WSD Processing WW01005 Water Certification (Fresh/Flush) /SD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush)	6 days 0 days	Thu 13/10/22 Tue 18/10/22	Tue 18/10/22 Tue 18/10/22	ng WW01005 Water Certification (Fresh/Flush) WWO 1005 Water Certification (Fresh/Flush)
DS IFIT Statutory Submission, Inspection and Approval MSD: Submission of Lift Form LE5 to EMSD	45 days 12 days	Sat 26/3/22 Sat 26/3/22	Mon 9/5/22 Wed 6/4/22	
MSD: EMSD Makes arrangement for Lift Installation	5 days	Thu 7/4/22	Mon 11/4/22	
MSD: EMSD Inspection to Lift Installation MSD: Processing Lift Certificate (Form LE6)	14 days 14 days	Tue 12/4/22 Tue 26/4/22	Mon 25/4/22 Mon 9/5/22	
MDS: Lift issuance of Form 6 (Lift Certificate) E Transformer Final Inspection	0 days 120 days	Mon 9/5/22 Thu 30/6/22	Mon 9/5/22 Thu 27/10/22	rt 22
X Room: Invite HKE For Transformer Room Inspection	7 days	Thu 30/6/22	Wed 6/7/22	
X Room: Give Access to Transformer Room for HKE Contractor X Room: Move-IN HKE Transformer Equipments	0 days 5 days	Wed 6/7/22 Thu 7/7/22	Wed 6/7/22 Mon 11/7/22	
X Room: Install HKE Transformer, MEP Works & Testing X Room: HKE Power Energization / Inspection	90 days 6 days	Tue 12/7/22 Mon 10/10/22	Sun 9/10/22 Sat 15/10/22	NEP Works & Testing rgization / Inspection
X Room: Hetering Installation X Room: HKE Power-ON Date	12 days 0 days	Sun 16/10/22 Thu 27/10/22	Thu 27/10/22 Thu 27/10/22	om: Metering Installation com: HKE Power-ON Date
D Drainage Completion Memo	65 days	Sun 2/10/22	Mon 5/12/22	50 Dec '22 6050: CCTV Survey Report on Completed Drainage
SD: CCTV Survey Report on Completed Drainage SD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit	30 days 7 days	Sun 2/10/22 Tue 1/11/22	Mon 31/10/22 Mon 7/11/22	-QSD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For Technical Audit
SD: Completed Drainage System including TMC Inspection/Technical Audit by DSD SD: Preparation of Drainage Connection Completion Memo by DSD	14 days 14 days	Tue 8/11/22 Tue 22/11/22	Mon 21/11/22 Mon 5/12/22	-DSD: Completed Drainage System including TMC Inspection/Technical Audit by DSD DSD: Preparation of Drainage Connection Completion Memo by DSD
Sc: Issue of Drainage Connection Completion Memo by DSD S0: Issue of Drainage Connection Completion Memo by DSD Submission, Inspection and Approval	0 days 60 days	Mon 5/12/22 Thu 30/6/22	Mon 5/12/22 Mon 29/8/22	DSD: Issue of Drainage Connection Completion Memo by DSD
PD: License Application to EPD under APCO (Cap 311) for Generator Sets	0 days	Thu 30/6/22	Thu 30/6/22	-
PD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets PD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	60 days 0 days	Fri 1/7/22 Mon 29/8/22	Mon 29/8/22 Mon 29/8/22	
VAC Statutory Submission, Inspection and Approval reparation of FSD VAC Drawings and Submission to HEC	150 days 60 days	Wed 20/7/22 Wed 20/7/22	Fri 16/12/22 Sat 17/9/22	U 16 Dec 22
EC: Review and Approval	30 days	Sun 18/9/22 Tue 18/10/22	Mon 17/10/22 Wed 16/11/22	oval Preparation of VAC Drawings and Submission to FSD
reparation of VAC Drawings and Submission to FSD SD: Review and Approval	30 days 30 days	Thu 17/11/22	Fri 16/12/22	Preparation of VAC Drawings and Submission to FSD FSD: Review and Approval
Statutory Submission, Inspection and Approval esting and Commissioning (Individual System - FSI Related)	91 days 45 days	Tue 28/2/23 Tue 28/2/23	Mon 29/5/23 Thu 13/4/23	
SD: All Sections FS Ingration Test by NSC_BS SD: Completion of FS Integration Test by NSC_BS for FS314/501	15 days 0 days	Fri 14/4/23 Fri 28/4/23	Fri 28/4/23 Fri 28/4/23	-
SD: Submit Form 213/314 & Form 501 Request for Inspection	0 days	Fri 28/4/23	Fri 28/4/23	
SD: FSD Makes Arrangement for Inspection SD: FSD Inspection	7 days 12 days	Sat 29/4/23 Sat 6/5/23	Fri 5/5/23 Wed 17/5/23	
SD: Completion of FS Inspection SD: FSD Processing FS Certicate Form 172	0 days 12 days	Wed 17/5/23 Thu 18/5/23	Wed 17/5/23 Mon 29/5/23	-
SD: Issue of Fire Services FS Certificate Form 172	0 days	Mon 29/5/23	Mon 29/5/23	
CTICAL COMPLETION	97 days	Tue 30/5/23 Tue 30/5/23	Sun 31/12/23 Sun 3/9/23	
Inspection	21 days	Tue 30/5/23	Mon 19/6/23 Tue 4/7/23	
Inspection D: Application Form BA13 for OP Application D: Application Data	15 days 60 days	Tue 20/6/23 Wed 5/7/23	Sat 2/9/23	
D: BD Inspection Date D: Reinspection date with defects and rectification works		Sun 3/9/23 Wed 14/6/23	Sun 3/9/23 Wed 11/10/23	
D: BD Inspection Date D: Reinspection date with defects and rectification works D: Obtain Occupation Permit (OP) from BD	1 day		Fri 28/7/23	
D: BD Inspection Date D: Reinspection date with defects and rectification works D: Obtain Occupation Permit (OP) from BD Built Drawings & Handover Documentation Perpare and Submit As-Built Drawings & Handover Documentation	120 days 45 days	Wed 14/6/23	Mor dialore	
D: ED Inspection Date D: Reinspection date with defects and rectification works D: Obtain Occupation Permit (OP) from BD Buil Drawings & Handover Documentation regrer and Submit As-Built Drawings & Handover Documentation eview and Approval S-Built Drawings & Handover Documentation - Revision by MC	120 days 45 days 45 days 30 days	Sat 29/7/23 Tue 12/9/23	Mon 11/9/23 Wed 11/10/23	
D: ED Inspection Date D: Reinspection date with defects and rectification works D: Obtain Occupation Permit (OP) from BD Built Drawings & Handover Documentation repare and Submit As-Built Drawings & Handover Documentation eview and Approval = Suilt Drawings & Handover Documentation - Final Submission phetion of the Whole Contract Works	120 days 45 days 45 days 30 days 0 days 119 days	Sat 29/7/23 Tue 12/9/23 Wed 11/10/23 Mon 4/9/23	Wed 11/10/23 Wed 11/10/23 Sun 31/12/23	
D: BD Inspection Date D: Reinspection date with defects and rectification works D: Obtain Occupation Permit (OP) from BD Built Drawings & Handover Documentation repare and Submit As-Built Drawings & Handover Documentation eview and Approval s-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Handover Documentation - Revision by MC evies Af-Built Drawings & Han	120 days 45 days 45 days 30 days	Sat 29/7/23 Tue 12/9/23 Wed 11/10/23	Wed 11/10/23 Wed 11/10/23	
10: BD Inspection Date 10: BD Inspection Date 10: BD Inspection date with defects and rectification works 10: Obtain Occupation Permit (OP) from BD 11: Drawings & Handover Documentation 12: Built Drawings & Handover Documentation 13: Built Drawings & Handover Documentation 14: Built Drawings & Handover Documentation 15: Built D	120 days 45 days 45 days 30 days 0 days 119 days 30 days 60 days 14 days	Sat 29/7/23 Tue 12/9/23 Wed 11/10/23 Mon 4/9/23 Wed 4/10/23 Sun 3/12/23	Wed 11/10/23 Wed 11/10/23 Sun 31/12/23 Tue 3/10/23 Sat 2/12/23 Sat 16/12/23	
Inspection Dispection Form BA13 for OP Application Di: BDI Respection Form BA13 for OP Application Di: BDI Inspection adda with deflects and rectification works Di: Obtain Occupation Permit (OP) from BD Built Drawings & Handover Documentation repare and Submit As-Built Drawings & Handover Documentation evelve and Approval set Submit As-Built Drawings & Handover Documentation ex-Built Drawings & Handover Docum	120 days 45 days 45 days 30 days 0 days 119 days 30 days 60 days	Sat 29/7/23 Tue 12/9/23 Wed 11/10/23 Mon 4/9/23 Mon 4/9/23 Wed 4/10/23	Wed 11/10/23 Wed 11/10/23 Sun 31/12/23 Tue 3/10/23 Sat 2/12/23	

MASTER PROGRAMME Rev 1-B 23 Aug 2021

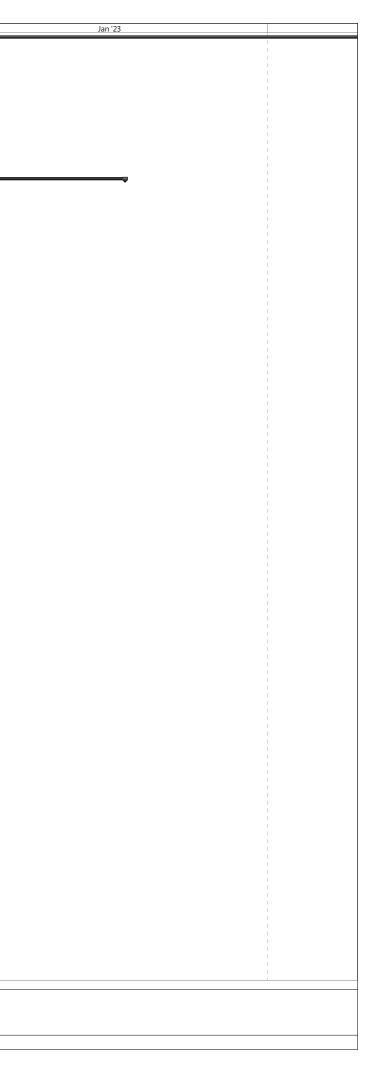
Paul Y Task

Split Milestone 🔷 Summary 🔍 🛡

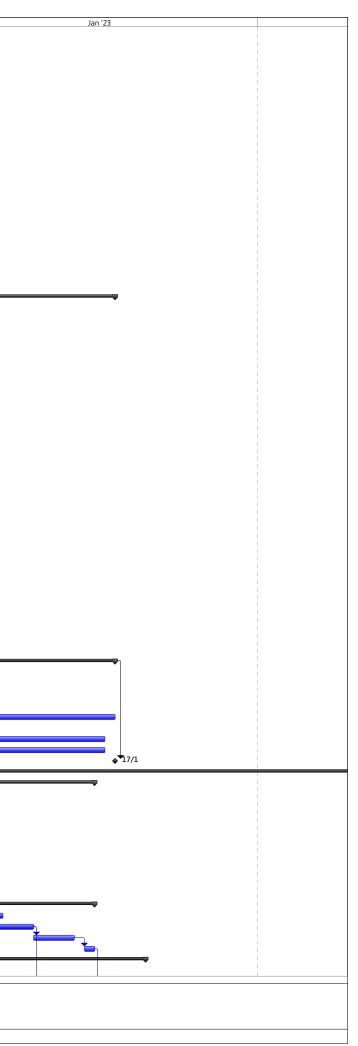
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19-83014 - Civil Works for N	o. 5 C.W. Intake and Cable Bridge at Lamma Power	Duration 199 days	Start Fri 22/7/22	Finish Thu 2/3/23	Nov '22			Dec '22	
Station Extension									
No. 5 C.W. Intake		129 days		Sun 27/11/22					
Delivery of Precast No		3 days	Fri 22/7/22	Sun 24/7/22					
Installation of Precast			Mon 25/7/22	Tue 26/7/22					1
Prepare formation lev	el for reinstall culvert		Wed 27/7/22	Sat 13/8/22					1
Typhoon			Fri 12/8/22	Sun 14/8/22					i
Reinstate of culvert		7 days	Mon 15/8/22	Sun 21/8/22					1
Reinstate of seawall b	ock	28 days	Mon 22/8/22	Sun 18/9/22					
Backfill at East Side		15 days	Mon 19/9/22	Mon 3/10/22					1
Reinstate of seawall co	pping	45 days	Tue 4/10/22	Thu 17/11/22					
Reinstate of storm dra	in		Tue 4/10/22						
	access at east of Intake Chamber		Fri 18/11/22		*				I.
In-situ Construction Wo			Sat 20/8/22	Tue 17/1/23					
	veen Pipepile and Intake Chamber External Wall		Sat 20/8/22	Wed 7/9/22					
	80mPD - North side (Between pipepile & W13)	14 days	Sat 20/8/22	Fri 2/9/22					1
		,							
	80mPD - South side (Between pipepile & W1)	5 days	Sat 3/9/22	Wed 7/9/22					
	40mPD - West side (Between pipepile & W19)	5 days	Sat 3/9/22	Wed 7/9/22					l.
-	ge Valve Chamber to -0.5mPD	10 days	Fri 9/9/22	Sun 18/9/22					
	PD to -1.50mPD for Discharge Valve Chamber	10 days	Fri 9/9/22	Sun 18/9/22					
Install Concrete Block	-		Tue 23/8/22	Fri 16/9/22					
Installation of Conc	rete Block inside/ on intake chamber/ culvert	25 days	Tue 23/8/22	Fri 16/9/22					
Removal of Internal S	trut/ King Post	28 days	Sat 20/8/22	Fri 16/9/22					i i
Removal of Interna	Strut/ King Post	28 days	Sat 20/8/22	Fri 16/9/22					I. I.
Dewatering		3 days	Tue 20/9/22	Thu 22/9/22					
Dewatering in Char	nber Internal Side	-	Tue 20/9/22	Thu 22/9/22			I.		
Corrosion Protection		8 days	Fri 23/9/22	Fri 30/9/22					1
Corrosion Protectio		8 days	Fri 23/9/22	Fri 30/9/22					
	e Chamber External Wall to Level +5.70mPD	,	Sun 28/8/22	Fri 14/10/22			I		
	ling Supporting Bracket		Sun 28/8/22	Sat 24/9/22					1
	(Chamber Internal Side)			Sat 24/9/22 Fri 2/9/22					
			Sun 28/8/22				I.		
	(Chamber Internal Side)	6 days	Fri 2/9/22	Wed 7/9/22					l.
	(Chamber Internal Side)		Mon 19/9/22	Sat 24/9/22					1
Installation of Scaf	-	27 days	Sat 3/9/22	Thu 29/9/22					Ì
Chamber Intern		27 days	Sat 3/9/22	Thu 29/9/22					
North Side - V		5 days	Sat 3/9/22	Wed 7/9/22					
South Side - V	/1	5 days	Thu 8/9/22	Mon 12/9/22			I.		I.
West Side - W	19	5 days	Sun 25/9/22	Thu 29/9/22					
Chamber Extern	al Side	21 days	Sat 3/9/22	Fri 23/9/22					
North Side - V	/13	5 days	Sat 3/9/22	Wed 7/9/22					1
South Side - V	/1	5 days	Thu 8/9/22	Mon 12/9/22					1
West Side - W		,	Mon 19/9/22	Fri 23/9/22			I.		
Rebar Fixing & For		36 days		Thu 13/10/22					1
North Side - W1		21 days	Thu 8/9/22	Wed 28/9/22					
South Side - W1			Tue 13/9/22	Mon 3/10/22					i
West Side - W19		14 days	Fri 30/9/22						
Concreting			Thu 29/9/22	Fri 14/10/22					1
	2	-							i
North Side - W1	5		Thu 29/9/22	Thu 29/9/22					l.
South Side - W1			Tue 4/10/22	Tue 4/10/22					
West Side - W19			Fri 14/10/22	Fri 14/10/22			1		i
	ation of CW culvert pipes			Wed 30/11/22					
Excavation for CW		14 days	Sat 15/10/22	Fri 28/10/22					1
Installation of CW of	ulvert pipes	7 days	Sat 29/10/22	Fri 4/11/22					i
RC works after insta	llation of puddle flange	21 days	Sat 5/11/22	Fri 25/11/22					
Backfill at west of Ir				Wed 30/11/22		*			
North Chamber (L12)				Thu 1/12/22					i
W11, W12 & W23			Fri 23/9/22	Fri 28/10/22					
•	PD to -1.975mPD)		Fri 23/9/22	Sat 8/10/22					1
Scaffold & pla		12 days	Fri 23/9/22	Tue 4/10/22					i
Install 1st laye			Sat 1/10/22	Mon 3/10/22					
Rebar Fixing F			Tue 4/10/22	Fri 7/10/22					
	UTTIWULK								Ì
Concreting			Sat 8/10/22	Sat 8/10/22					
	5mPD to 1.55mPD)			Tue 18/10/22					
Scaffold & pla			Sun 9/10/22	Fri 14/10/22					I
Install 2nd lay	•			Thu 13/10/22					
Rebar Fixing F	ormwork			Mon 17/10/22					
Concreting				Tue 18/10/22					Ì
3rd Layer (1.55n	PD to 5.70mPD)	10 days W	ed 19/10/22	Fri 28/10/22					
Scaffold & pla	tform	6 days V	/ed 19/10/22	Mon 24/10/22					
Install 3rd laye	r of precast			Sun 23/10/22					1
Rebar Fixing F				Thu 27/10/22					
Concreting				Fri 28/10/22					
W10a-d & W20 (G	L.4-7/D 3 nos.)			Wed 2/11/22					
	PD to -1.975mPD)			Thu 13/10/22					
Scaffold & pla				Tue 11/10/22					I
Install 1st laye				Mon 10/10/22					
Rebar Fixing F	ormwork			Wed 12/10/22					
Concreting				Thu 13/10/22					Ì
	5mPD to 1.55mPD)			Sun 23/10/22					
Scaffold & pla	tform	8 days	Fri 14/10/22	Fri 21/10/22					
Install 2nd lay				Thu 20/10/22					i
Rebar Fixing F				Sat 22/10/22					
Concreting				Sun 23/10/22					1
CONTENT	IPD to 5.70mPD)			Wed 2/11/22					i
0				Mon 31/10/22					
3rd Layer (1.55n				Sun 30/10/22					
3rd Layer (1.55n Scaffold & pla			1011 24/10/22	JUII JU/ 10/ 22			1		
3rd Layer (1.55n	r of precast	. ==)=							
3rd Layer (1.55n Scaffold & pla	•	· · · ·	_						
3rd Layer (1.55n Scaffold & pla Install 3rd laye	Task	Summary		External Milestone	Inactive Summa	ary 🖓 🖓 🖓	Manual Summary Rollup 🕳	Finish-only	3
3rd Layer (1.55n Scaffold & pla Install 3rd laye 19-83014 - No. 5 Intake and Cat Aug 2022	le Br	· · · ·	-	External Milestone	Inactive Summ Manual Task		Manual Summary Rollup 🕳 Manual Summary 🛛 🛡	Finish-only Progress	<u>з</u>
3rd Layer (1.55n Scaffold & pla Install 3rd laye	le Br Split	Summary	-					-]

Appendix J

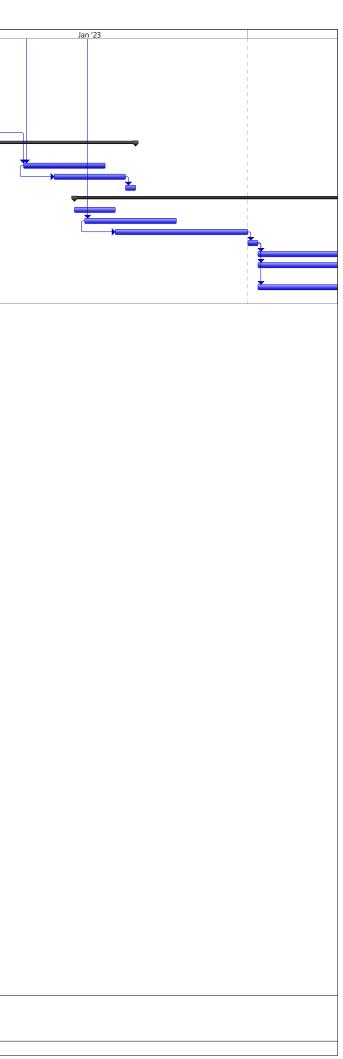


-	Test News	Duration C: :	r:-:-	N. 122	D 100
ID T 86	Task Name Rebar Fixing Formwork	Duration Start 6 days Thu 27/10/22	Finish Tue 1/11/22	Nov '22	Dec '22
87	Concreting	1 day Wed 2/11/22			
88	Slab at Discharge Valve Chamber at Level +0.5mPD (G.L.1-7)	59 days Mon 3/10/22			
89	Blinding Layer	1 day Mon 3/10/22			
90	Rebar Fixing	9 days Sat 5/11/22			
91	Concreting	1 day Mon 14/11/22			
23	Builder's Work at Level +0.5mPD	16 days Tue 15/11/22			
} 	Top Slab at Level + 7.20mPD (G.L. 5-7) Removal of Concrete Block between G.L. 5-7/D-C)	34 days Sat 29/10/22 4 days Sun 30/10/22			
	Erection of Soffit Formwork	7 days Sat 29/10/22	Fri 4/11/22		
5 6	Rebar Fixing	9 days Tue 1/11/22			
7	Concreting	1 day Thu 10/11/22			
8	Builder's Work at Level +7.2mPD	21 days Fri 11/11/22			
9	Concrete Curing & Archieve Design Concrete Strength	10 days Fri 11/11/22	Sun 20/11/22		
00	Removal of Formwork/Falsework, Remaining Concrete block & Site Clear	10 days Mon 21/11/22	Wed 30/11/22	*	
01	Installation of GRP	20 days Fri 11/11/22			
02	Ground Beam Along G.L. 7/D & 7/C	20 days Fri 11/11/22			
03	Excavation	7 days Fri 11/11/22			
04	Blinding Layer	1 day Fri 18/11/22			
05 06	Rebar Fixing Erection of Formwork	4 days Sat 19/11/22 3 days Wed 23/11/22			
07	Concreting	1 day Sat 26/11/22			
08	Removal of Formwork & Backfilling	4 days Sun 27/11/22			
09	Handover L12 Chamber and Discharge Valve Chamber	0 days Thu 1/12/22			▲ 1/12
10	Centre Chamber (L13)	80 days Mon 17/10/22	Tue 17/1/23	1	
11	W7, W8 & W22	32 days Mon 31/10/22			•
12	1st Layer (-5.5mPD to -1.975mPD)	10 days Mon 31/10/22			
13	Scaffold & platform	6 days Mon 31/10/22			
14 15	Install 1st layer of precast Rebar Fixing Formwork	3 days Wed 2/11/22 4 days Sat 5/11/22	Fri 4/11/22		
15 16	Concreting	1 day Wed 9/11/22			
17	2nd Layer (-1.975mPD to 1.55mPD)	10 days Thu 10/11/22			
18	Scaffold & platform	6 days Thu 10/11/22			
19	Install 2nd layer of precast	3 days Sat 12/11/22	Mon 14/11/22		
20	Rebar Fixing Formwork	4 days Tue 15/11/22			
21	Concreting	1 day Sat 19/11/22			_
22 23	3rd Layer (1.55mPD to 5.70mPD) Scaffold & platform	12 days Sun 20/11/22			▼
23 24	Install 3rd layer of precast	6 days Sun 20/11/22 3 days Thu 24/11/22			
24 25	Rebar Fixing Formwork	4 days Sun 27/11/22			
26	Concreting	1 day Thu 1/12/22			, Βη
27	W6a-b & W20 (G.L.1-4/D 2 nos.)	51 days Mon 17/10/22	Thu 8/12/22		
28	1st Layer (-5.5mPD to -1.975mPD)	10 days Sat 5/11/22	Mon 14/11/22		
29	Scaffold & platform	8 days Sat 5/11/22			
80	Install 1st layer of precast	7 days Sat 5/11/22			
31 32	Rebar Fixing Formwork Concreting	6 days Tue 8/11/22 1 day Mon 14/11/22			
32 33	2nd Layer (-1.975mPD to 1.55mPD)	38 days Mon 17/10/22			
34	Scaffold & platform	8 days Tue 15/11/22			
.35	Install 2nd layer of precast	7 days Thu 17/11/22			
.36	Rebar Fixing Formwork	6 days Mon 17/10/22	Sat 22/10/22		
.37	Concreting	1 day Sun 23/10/22			
.38	3rd Layer (1.55mPD to 5.70mPD)	44 days Mon 24/10/22			
39 40	Scaffold & platform Install 3rd layer of precast	8 days Mon 24/10/22 7 days Sun 27/11/22			
40 41	Rebar Fixing Formwork	6 days Wed 30/11/22			
42	Concreting	1 day Thu 8/12/22			
43	Top Slab at Level +7.20mPD (G.L. 3-5)	36 days Wed 30/11/22			
44	Removal of Concrete Block between G.L. 3-5/D-C)	4 days Wed 30/11/22			
45	Erection of Soffit Formwork	7 days Fri 2/12/22			
16	Rebar Fixing	9 days Wed 7/12/22			
47 48	Concreting Builder's Work at Level +7.2mPD	1 day Tue 20/12/22 21 days Wed 21/12/22			
48 49	Concrete Curing & Archieve Design Concrete Strength	10 days Wed 21/12/22	Tue 3/1/23		
50	Removal of Formwork/Falsework, Remaining Concrete block & Site Clear				
51	Installation of GRP	20 days Wed 21/12/22			
52	Handover L13 Chamber	0 days Tue 17/1/23	Tue 17/1/23		
53	South Chamber (L14)	112 days Mon 17/10/22			
54	W2, W3 & W21	64 days Mon 31/10/22			
55	1st Layer (-5.5mPD to -1.975mPD)	42 days Mon 31/10/22			
6 7	Scaffold & platform Install 1st layer of precast	6 days Mon 31/10/22 3 days Tue 6/12/22	Sat 5/11/22 Thu 8/12/22		
8	Rebar Fixing Formwork		Wed 14/12/22		
9	Concreting	1 day Thu 15/12/22			
0	2nd Layer (-1.975mPD to 1.55mPD)	10 days Fri 16/12/22			
1	Scaffold & platform	6 days Fri 16/12/22	Fri 23/12/22		
2	Install 2nd layer of precast	3 days Tue 20/12/22			
3	Rebar Fixing Formwork	4 days Fri 23/12/22			
54	Concreting	1 day Thu 29/12/22			
5 6	3rd Layer (1.55mPD to 5.70mPD) Scaffold & platform	12 days Fri 30/12/22 6 days Fri 30/12/22	Sun 15/1/23 Fri 6/1/23		
6 7	Scattold & platform Install 3rd layer of precast	6 days Fri 30/12/22 3 days Thu 5/1/23	Hri 6/1/23 Mon 9/1/23		
8	Rebar Fixing Formwork	4 days Tue 10/1/23	Fri 13/1/23		
9	Concreting	1 day Sun 15/1/23	Sun 15/1/23		
0	W6c-d	83 days Mon 17/10/22	Fri 20/1/23		
1	1st Layer (-5.5mPD to -1.975mPD)	42 days Sat 5/11/22			
	· · · · · · · · · · · · · · · · · · ·			/	
ect: 1	9-83014 - No. 5 Intake and Cable Br	mmary 🗸	External Milestone		al Summary Rollup Finish-only
e: 12 /	Aug 2022 Split Pro	ject Summary	Inactive Task	Manual Task C 3 Manu	al Summary Progress
J - F	Milestone Kitestone	ernal Tasks	Inactive Milestone 🔶	Duration-only Start-	only 🕻 Deadline 🕀
	1			Page 2	
				· 490 E	



	ask Name	Duration	Start	Finish	Nov '22	Dec '22	
172	Scaffold & platform	8 days	Sat 5/11/22	Sat 12/11/22			
173	Install 1st layer of precast	7 days	Fri 9/12/22	Mon 19/12/22			
174	Rebar Fixing Formwork	6 days	Wed 14/12/22	Wed 21/12/22			
175	Concreting	1 day	Thu 22/12/22	Thu 22/12/22		μ	
176	2nd Layer (-1.975mPD to 1.55mPD)	70 days	Mon 17/10/22	Wed 4/1/23			
177	Scaffold & platform	8 days	Fri 23/12/22	Tue 3/1/23			
178	Install 2nd layer of precast	7 days	Tue 27/12/22	Wed 4/1/23			Lease and the second se
179	Rebar Fixing Formwork	6 days	Mon 17/10/22	Sat 22/10/22			1
180	Concreting	1 day	Sun 23/10/22	Sun 23/10/22			1
181	3rd Layer (1.55mPD to 5.70mPD)	76 days	Mon 24/10/22	Fri 20/1/23			1
182	Scaffold & platform	8 days	Mon 24/10/22	Mon 31/10/22			1
183	Install 3rd layer of precast	7 days	Tue 10/1/23	Tue 17/1/23			1
184	Rebar Fixing Formwork	6 days	Fri 13/1/23	Thu 19/1/23			
185	Concreting	1 day	Fri 20/1/23	Fri 20/1/23			I.
186	Top Slab at Level +7.20mPD (G.L. 1-3)	35 days	Sun 15/1/23	Thu 2/3/23			
187	Removal of Concrete Block between G.L. 1-3/D-C)	4 days	Sun 15/1/23	Wed 18/1/23			i.
188	Erection of Soffit Formwork	7 days	Mon 16/1/23	Tue 24/1/23			1
189	Rebar Fixing	9 days	Thu 19/1/23	Tue 31/1/23			i.
190	Concreting	1 day	Wed 1/2/23	Wed 1/2/23			1
191	Builder's Work at Level +7.2mPD	21 days	Thu 2/2/23	Thu 2/3/23			1
192	Concrete Curing & Archieve Design Concrete Strength	10 days	Thu 2/2/23	Wed 15/2/23			1
193	Removal of Formwork/Falsework, Remaining Concrete block & Site Clearan	10 days	Thu 16/2/23	Wed 1/3/23			
194	Installation of GRP	20 days	Thu 2/2/23	Wed 1/3/23			I.
195	Handover L14 Chamber	0 days	Thu 2/3/23	Thu 2/3/23			1

Preject: 19.82014 No. 5 Intake and Cable Br	Task		Summary	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	External Milestone	\$	Inactive Summary	∇	Manual Summary Rollup	ρ	Finish-only	2
Project: 19-83014 - No. 5 Intake and Cable Br Date: 12 Aug 2022 Rev. 8 - Programme for No. 5 C.W. Intake (D	Split		Project Summary	~	Inactive Task		Manual Task	C	Manual Summary	~	Progress	
Rev. 8 - Programme for No. 5 C.W. Intake (D	Milestone	•	External Tasks		Inactive Milestone	Φ	Duration-only		Start-only	C	Deadline	Ŷ
Page 3												



Monthly Waste Flow Table for October 2022

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2020, 2021 & 2022

MM.YYYY		Act	tual Quanti	ties of Inert (C&D Materia	ls Generated	Actual Quantities of Non-inert C&D Materials Generated Monthly								
	Exca	avated Mate	erials		Non-	excavated Ma	aterials								
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	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)	(in '000kg)
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2021	0.00	0.00	21020.16	0.00	0.00	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00	0.00	0.00
Feb 2021	0.00	0.00	18083.97	0.00	0.00	0.00	0.00	0.00	18.25	0.00	0.25	0.00	0.00	0.00	0.00
Mar 2021	0.00	0.00	9048.21	0.00	0.00	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00	0.00	2.61
Apr 2021	0.00	0.00	3205.15	0.00	0.00	0.00	0.00	0.00	28.08	0.00	0.00	0.00	0.00	0.00	14.45
May 2021	0.00	0.00	6267.49	0.00	0.00	0.00	0.00	0.00	34.68	0.00	0.00	0.00	0.00	0.00	0.00
Jun 2021	0.00	0.00	6555.38	0.00	0.00	0.00	0.00	0.00	26.87	0.00	0.00	0.00	0.00	0.00	25.03
Jul 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.95	0.00	0.00	0.00	0.00	0.00	10.97
Aug 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.55	0.00	0.00	0.00	0.00	0.00	3.49
Sep 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.28	49.15
Oct 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.47	0.00	0.00	0.00	0.00	0.00	62.08
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00	0.00	34.17
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36	0.00	0.00	0.00	0.00	0.00	52.18
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.93	0.00	0.00	0.00	0.00	0.00	42.73
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.62
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.21	0.00	0.000	0.00	0.00	0.00	25.70
Apr 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.51	0.00	0.00	0.00	0.00	0.00	0.00	52.83
May 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.36	0.00	0.00	0.00	0.00	0.00	38.60
Jun 2022	0.00	0.00	6645.22	0.00	0.00	0.00	0.00	5.70	0.00	0.00	0.000	0.00	0.00	0.00	37.38
Jul 2022	0.00	0.00	4710.98	0.00	0.00	0.00	0.00	6.58	11.55	0.00	0.000	0.00	0.00	0.00	25.22
Aug 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.60	0.42	21.74
Sep 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.64	0.00	0.000	0.00	0.00	0.00	48.57
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	44.71
Total	0.00	0.00	75536.55	0.00	0.00	0.00	0.00	17.79	271.49	0.00	0.25	0.00	1.00	0.70	600.23

Total Inert C&D Waste Materials	Non-inert C&D Materials						
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	of at Chemical Waste				
75554.34 tonnes	271.74 tonnes	600.23 tonnes	0.70 tonnes				

- Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
 75554.34
 tonnes of inert C&D material

 were generated from the Project, of which
 75536.55
 tonnes were reused in this and other contracts, and the remaining
 5.51
 tonnes were facilities.
 - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
 - (c) 0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

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

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

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

(5) Broken concrete for recycling into aggregates.

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

Monthly Waste Flow Table for October 2022

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Notes:

Year of Record: 2020, 2021 & 2022

MM.YYYY		Ac	tual Quanti	ties of Inert (C&D Materia	ls Generated	Actual Quantities of Non-inert C&D Materials Generated Monthly								
	Exc	avated Mate	erials		Non-	excavated M	aterials								
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	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)	(in '000kg
Oct 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.49
Apr 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.42	4.85
May 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.61
Jun 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.84
Oct 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.93
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	46.25
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.86
Apr 2022	0.00	0.00	15076.75	0.00	0.00	0.00	0.00	10.27	0.00	0.00	0.000	0.00	0.00	0.00	43.60
May 2022	0.00	0.00	29148.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	54.64
Jun 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	11.79
Jul 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.04	0.00	0.00	0.000	0.00	0.00	0.00	35.90
Aug 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	41.91
Sep 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	51.26
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	37.87
Total	0.00	0.00	44225.70	0.00	0.00	0.00	0.00	34.31	4.21	0.00	0.00	0.00	0.60	0.42	464.25

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				
44260.01 tonnes	4.21 tonnes	464.25 tonnes	0.42 tonnes				

 Where
 (A)
 Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total,
 44260.01
 tonnes of inert C&D material

 were generated from the Project, of which
 44225.70
 tonnes were reused in this and other contracts, and the remaining

 10.27
 tonnes were lanks / Sorting Facilities.

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

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

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

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

Monthly Waste Flow Table for October 2022

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

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

Year of Record: 2021, 2022

MM.YYYY		Actua	I Quantities	of Inert C&D	Materials C	Actual Quantities of Non-inert C&D Materials Generated Monthly								
	Exc	avated Mate	erials		Non-e	xcavated M	aterials							
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) ⁽¹⁾	Metals (aluminum can) ⁽¹⁾	Paper / cardboard packaging ⁽¹⁾	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in L)	(in '000kg)
Nov 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.36
Feb 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.29
Mar 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.59
Apr 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.42
May 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.93
Jun 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Jul 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.57
Aug 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.40
Sep 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.96
Oct 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.89
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.01

Total Inert C&D Waste Materials	Non-inert C&D Materials						
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste				
0.00 tonnes	0.00 tonnes	160.01 tonnes	0 Liters				

- Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 0.00 tonnes of inert C&D material were generated from the Project, of which 0 tonnes were reused in this and other contracts, and the remaining 0.00 tonnes were incoursed 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: (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.