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



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

January 2023

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



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMIT NO. EP-071/2000/D

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

Report Title	Lamma Power Station Extension – Unit L12 Monthly EM&A Report (January 2023)
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TABLE OF CONTENT

EXECUTIVE SUMMARY

1.	INTRODUCTION	1
1.1 1.2 1.3	Background Project Organisation Construction Works undertaken during the Reporting Month	1 1 1
1.4	Summary of EM&A Requirements	4
2.	AIR QUALITY	6
2.1 2.2 2.3	Monitoring Requirements Monitoring Locations Monitoring Equipment	6 6 6
2.4 2.5 2.6	Monitoring Parameters, Frequency and Duration Monitoring Procedures and Calibration Details Results and Observations	6 7 8
3.	NOISE	10
3.1 3.2 3.3 3.4 3.5 3.6	Monitoring Requirements Monitoring Locations Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Procedures and Calibration Details Results and Observations	10 10 10 10 11
4.	ENVIRONMENTAL AUDIT	
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8	Review of Environmental Monitoring Procedures Assessment of Environmental Monitoring Results Waste Management Site Environmental Audit Status of Environmental Licensing and Permitting Implementation Status of Environmental Mitigation Measures Implementation Status of Event/Action Plans Implementation Status of Environmental Complaint Handling Procedures	13 13 13 14 14 15 15
5.	FUTURE KEY ISSUES	17
5.1 5.2 5.3	Key Issues for the Coming Month Monitoring Schedules for the Next 3 Months Construction Program for the Next 3 Months	17 17 18
6.	CONCLUSION	19

LIST OF TABLES

- Table 1.1
 Construction Activities and Their Corresponding Environmental Mitigation Measures
- Table 2.1Air Quality Monitoring Locations
- Table 2.2Air Quality Monitoring Equipment
- Table 2.3
 Air Quality Monitoring Parameter, Duration and Frequency
- Table 3.1Noise Monitoring Equipment
- Table 3.2Noise Monitoring Duration and Parameter
- Table 4.1
 Summary of AL Level Exceedances on Monitoring Parameters
- Table 4.2Estimated Amounts of Waste in January 2023
- Table 4.3Summary of Environmental Licensing and Permit Status
- Table 4.4Environmental Complaints Received in January 2023
- Table 4.5
 Outstanding Environmental Complaints Carried Over

LIST OF FIGURES

- Figure 1.1 Layout of Work Site
- Figure 2.1 Location of Air Quality Monitoring Stations
- Figure 3.1 Location of Noise Monitoring Stations

APPENDICES

- Appendix A Organization Chart
- Appendix B Action and Limit Levels for Air Quality and Noise
- Appendix C Environmental Monitoring Schedule
- Appendix D Air Quality Monitoring Results for January 2023
- Appendix E Noise Monitoring Results for January 2023
- Appendix F The QA/QC Procedures and Results
- Appendix G Event/Action Plans
- Appendix H Site Audit Summary
- Appendix I Summary of EMIS
- Appendix J Tentative Construction Programme
- Appendix K Monthly Waste Flow Table for January 2023

EXECUTIVE SUMMARY

This is the 153rd monthly Environmental Monitoring and Audit (EM&A) report for the Project "Construction of Lamma Power Station Extension" prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air quality and noise for the said project in January 2023.

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	External works of Main Station Building, construction of No. 5 chimney flue, 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

Independent Environmental Checker (IEC) conducted a site inspection on 13/1/2023. The site conditions were generally satisfactory.

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

Environmental Licensing and Permitting

Description	Permit No.	Valid Period		Issued To	Date of
-		From	То		Issuance
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	HK Electric	28/09/20
Construction Noise Permit	GW-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
Construction Noise Permit	GW-RS1163-22	08/01/23	06/07/23	Contractor	04/01/23
Construction Noise Permit	GW-RS0027-23	28/01/23	27/07/23	Contractor	20/01/23
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 January 2023.

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, external works of Main Station Building, construction of No.5 chimney flue, 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.	External works of Main Station Building Construction of No.5 Chimney Flue 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 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 <u>No. 5 C.W. Intake</u> Construction of external wall of intake chamber of installation of pre- cast unit 2 Mechanical Erection Condenser installation 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 General noise mitigation measures employed at all work sites throughout the construction phase. Waste Management Waste Management
Unit L12	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.

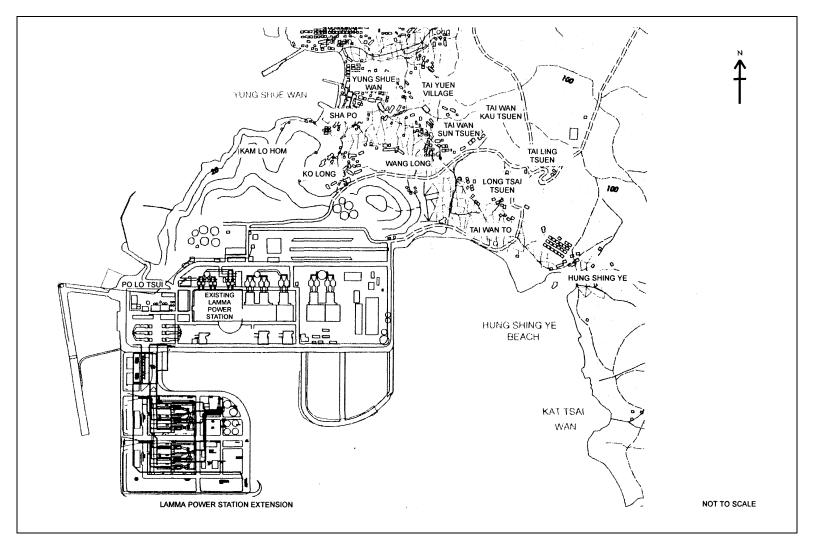


Figure 1.1 Layout of Work Site

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

2.4 Monitoring Parameters, Frequency and Duration

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

Monitoring Stations	Parameter	Duration	Frequency
AM1	1-hour TSP	1	3 hourly samples every 6 days
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
ANIS	24-hour TSP	24	Once every 6 days
AM4	24-hour TSP	24	Once every 6 days

 Table 2.3
 Air Quality Monitoring Parameter, Duration and Frequency

2.5 Monitoring Procedures and Calibration Details

MINIVOL (24- hour TSP Monitoring):

Preparation of Filter Papers

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

Field Monitoring

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

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

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

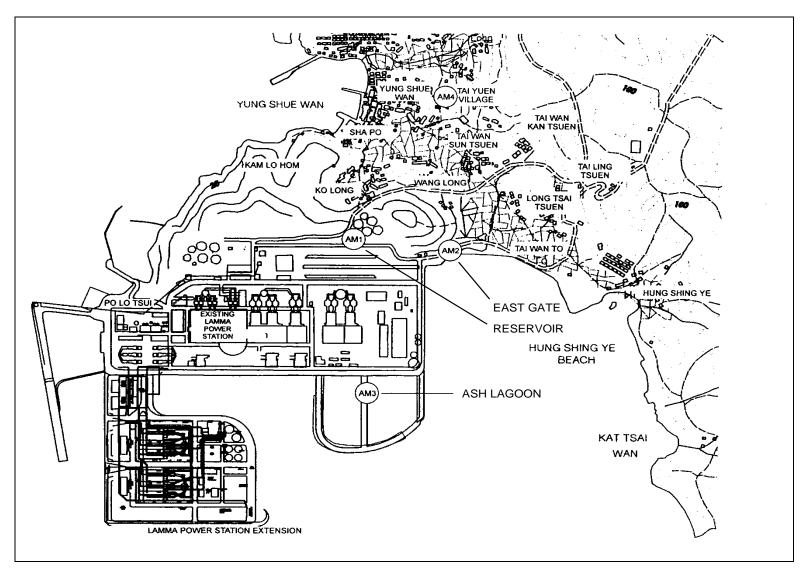


Figure 2.1 Location of Air Quality Monitoring Stations

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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 Ching Lam and Ash Lagoon noise monitoring stations were carried out in September and November 2022 respectively. The next calibrations for the two corresponding noise monitoring stations were scheduled in March and May 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.

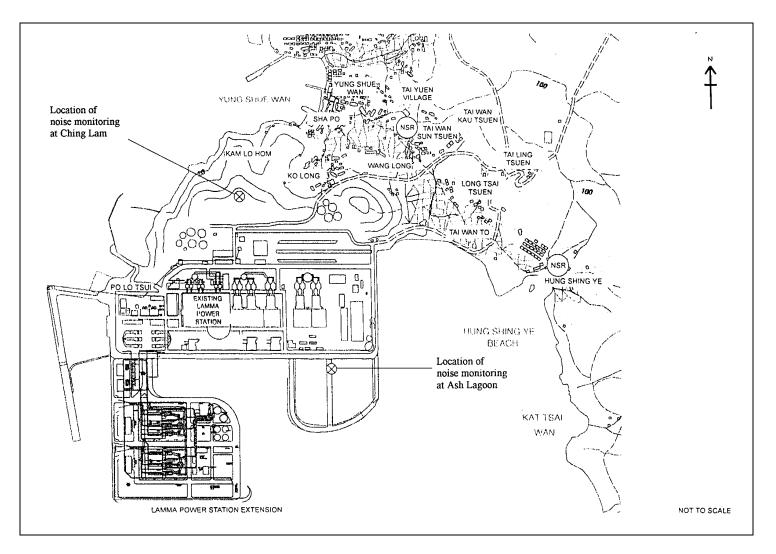


Figure 3.1 Location of Noise Monitoring Stations

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 Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status
			Action Level	Limit Level	and Results
Air					
1	Ambient TSP (24-hour)	01/01/2023- 31/01/2023	0	0	
2	Ambient TSP (1-hour)	01/01/2023- 31/01/2023	0	0	
Noise	•	•			
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/01/2023- 31/01/2023	0	0	

 Table 4.1
 Summary of AL Level Exceedances on Monitoring Parameters

4.3 Waste Management

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

Inert C&D material and non-inert C&D material disposed of in January 2023 are shown in Table 4.2.

Table 4.2 Estimated Amou	ints of Waste in January 2023
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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	10.57 Tonnes	63.9 Tonnes	0 Litres
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The monthly waste flow tables prepared by the contractors are attached in Appendix K

4.4 Site Environmental Audit

Independent Environmental Checker (IEC) conducted a site inspection on 13/1/2023. The site conditions were generally satisfactory.

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

4.5 Status of Environmental Licensing and Permitting

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

Table 4.3	Summary of Environmental Licensing and Permit Status
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Description	Permit No.	Valid	Period	Highlights	Status	
_		From	То			
Varied Environmental Permit	EP-071/2000/D	28/09/20	-	The whole construction work site	Valid	
Construction Noise Permit	GW-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	
Construction Noise Permit	GW-RS1163-22	08/01/23	06/07/23	Construction site of Unit L12. Operation of PME during restricted hours	Valid	
Construction Noise Permit	GW-RS0027-23	28/01/23	27/07/23	Civil and Building Works for Unit L12. Operation of PME during restricted hours	Valid	

Description	Permit No.	it No. Valid Period		Highlights	Status
-		From	То		
WPCO	WT00037613-	15/04/21	30/04/26	Civil and Building	Valid
Discharge	2021			Works for No.5	
Licence#				C.W. Intake and	
				Cable Bridge	
WPCO	WT00037665-	06/05/21	31/05/26	Civil and Building	Valid
Discharge	2021			Works for Unit	
Licence##				L12	
Registration	WPN5213-912-	22/02/16	-	Civil and Building	Valid
of Chemical	P2781-22			Works	
Waste					
Producer					
Registration	WPN5517-912-	17/03/05	-	E&M Equipment	Valid
of Chemical	T2007-02			Installation and	
Waste				Maintenance	
Producer					
Waste	Account No.:	27/10/20	-	Civil works for	Valid
Disposal	7038672			Unit L12 No.5	
Billing				C.W. intake and	
Account				cable bridge	
Waste	Account No.:	08/01/21	-	Civil and building	Valid
Disposal	7039272			works for Unit	
Billing				L12	
Account					
Waste	Account No.:	21/10/21	-	E&M Erection of	Valid
Disposal	7041942			Power Block	
Billing				Facilities – L12	
Account					

Notes: # and ## - Water quality monitoring was carried out in November 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 January 2023, no complaint in relation to the environmental impact of the construction activities was received.

Table 4.4	Environmental Complaints Received in January 2023
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Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

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

Table 4.5 Outstanding Environmental Complaints Carried Over

5. FUTURE KEY ISSUES

5.1 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

Unit 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.

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6. CONCLUSION

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

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

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

Environmental mitigation measures recommended in the EM&A manual for the construction activities were implemented in the reporting month. No complaint 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

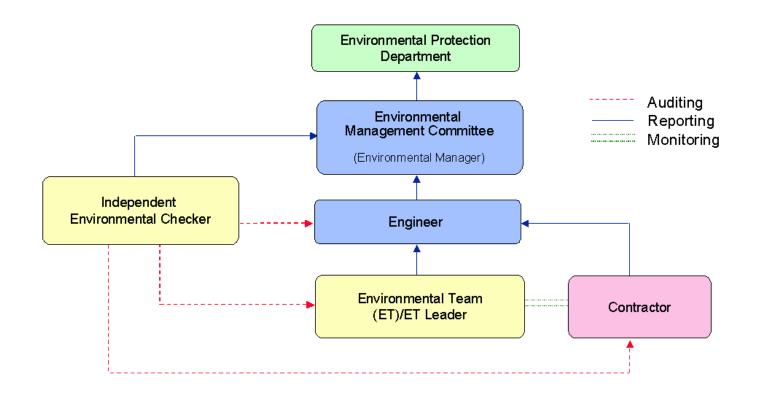


Figure A.1 Organisation of EM&A Programme at Construction Phase

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

Appendix C Environmental Monitoring Schedule

24hr TSP Monitoring	1hr TSP Monitoring
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
1/February/2023	1/February/2023 1500hr to 1800hr
7/February/2023	7/February/2023 1500hr to 1800hr
13/February/2023	13/February/2023 1500hr to 1800hr
19/February/2023	19/February/2023 1500hr to 1800hr
25/February/2023	25/February/2023 1500hr to 1800hr
3/March/2023	3/March/2023 1500hr to 1800hr
9/March/2023	9/March/2023 1500hr to 1800hr
15/March/2023	15/March/2023 1500hr to 1800hr
21/March/2023	21/March/2023 1500hr to 1800hr
27/March/2023	27/March/2023 1500hr to 1800hr
2/April/2023	2/April/2023 1500hr to 1800hr
8/April/2023	8/April/2023 1500hr to 1800hr
14/April/2023	14/April/2023 1500hr to 1800hr
20/April/2023	20/April/2023 1500hr to 1800hr
26/April/2023	26/April/2023 1500hr to 1800hr

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

APPENDIX D AIR QUALITY MONITORING RESULTS

Site: Lamma Power Station Extension

Month: January 2023

24 hour TSP Measurement:-

	TSP concentration (µg/m ³)					ather Information ng Kong Obser	
Date	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)	Tai Yuen Village (AM4)	Mean Wind Speed (km/hr)	Prevailing Wind Dir. (°)	Mean R.H. (%)
2/1/2023	57	46	39	32	21.8	20	65
8/1/2023	48	29	30	43	35.0	70	57
14/1/2023	17	24	5	17	9.4	250	90
20/1/2023	46	48	44	47	20.6	20	62
26/1/2023	49	27	40	38	26.8	60	66

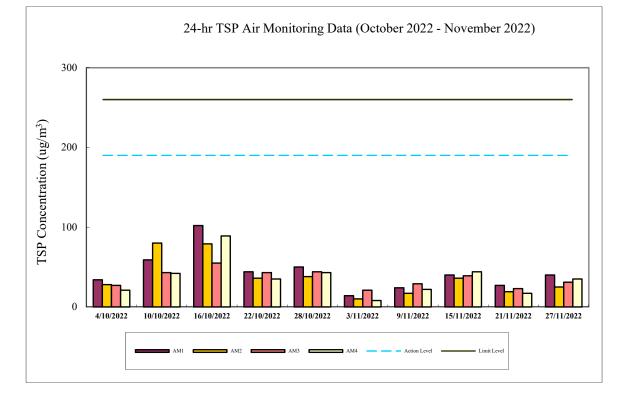
1 hour TSP Measurement:-

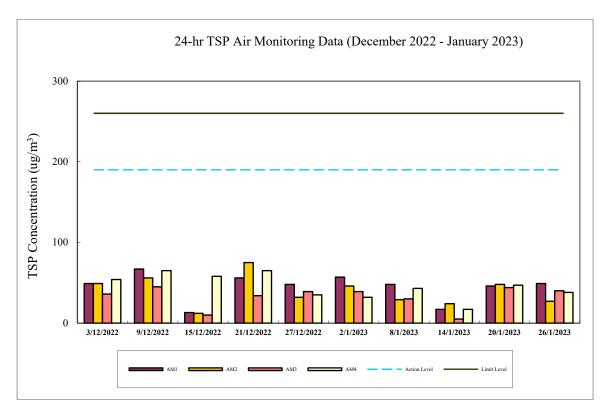
		TSP concentration (µg/m ³)				
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)		
2/1/2022	15:00 - 15:59	63	109	69		
2/1/2023	16:00 - 16:59	87	128	85		
	17:00 - 17:59	108	77	68		
	15:00 - 15:59	38	38	41		
8/1/2023	16:00 - 16:59	53	47	45		
	17:00 - 17:59	55	42	41		
	15:00 - 15:59	22	17	3		
14/1/2023	16:00 - 16:59	35	15	6		
	17:00 - 17:59	14	28	0		
	15:00 - 15:59	40	41	42		
20/1/2023	16:00 - 16:59	73	46	40		
	17:00 - 17:59	43	64	37		
	15:00 - 15:59	37	14	36		
26/1/2023	16:00 - 16:59	39	64	38		
	17:00 - 17:59	47	45	35		

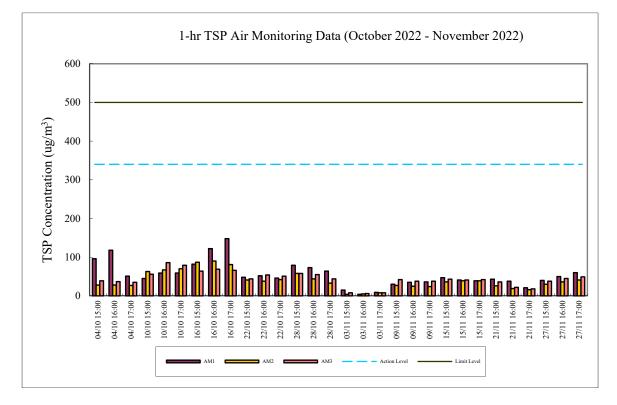
	1-hr TSP	24-hr TSP
	$(\mu g/m^3)$	$(\mu g/m^3)$
Action Level	340	190
Limit Level	500	260
Calibration:	Calibration details are shown in app	endix F.

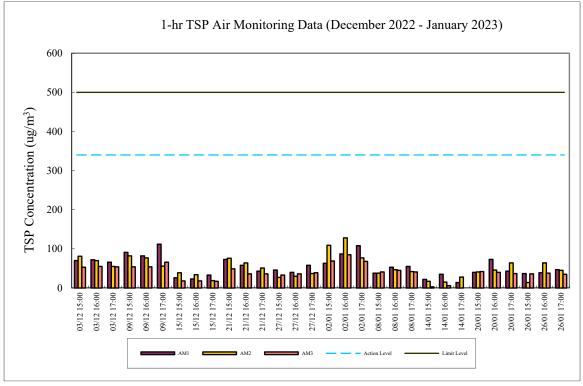
Equipment used:

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









Appendix E	Continuous Noise Monitoring Results for January 2023

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

B&K 4231 calibrator (17/10/2022)

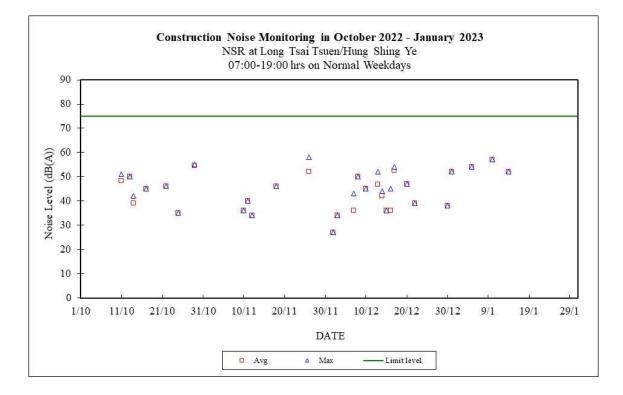
					Calcula	ated	
		Calcula	ated		Noise	iccu	
		Noise			Level a	- +	
		Level a	at	Limit	NSR at		Limit
		NSR at	Long	Noise	school	CIIE	Noise
Date	Time	Tsai		Level	within	mo i	Level
		Tsuen/H	Hung		Wan Sar	-	
		Shing Y	Ye	(dB(A))	Tsuen	1	(dB(A))
		(dB(A)))		(dB(A))		
		Max	Avq	-	Max	Avq	-
01/01/2023	07:00-23:00	43	36	60	48	33	60
01/01/2023	23:00-07:00			45	36	32	45
02/01/2023	07:00-23:00			60	31	31	60
02/01/2023	23:00-07:00	33	33	45	36	31	45
03/01/2023	07:00-19:00			75	56	56	70
03/01/2023	19:00-23:00			60			60
03/01/2023	23:00-07:00	42	42	45	34	30	45
04/01/2023	07:00-19:00			75			70
04/01/2023	19:00-23:00	48	41	60	38	35	60
04/01/2023	23:00-07:00	40	35	45	40	39	45
05/01/2023	07:00-19:00	54	54	75	40	40	65
05/01/2023	19:00-23:00			60	40	40	60
05/01/2023	23:00-07:00	40	37	45	42	37	45
06/01/2023	07:00-19:00			75	37	37	65
06/01/2023	19:00-23:00	25	25	60	49	44	60
06/01/2023	23:00-07:00	27	27	45	22	22	45
07/01/2023	07:00-19:00			75	54	50	70
07/01/2023	19:00-23:00	37	37	60	34	31	60
07/01/2023	23:00-07:00	43	37	45	40	32	45
08/01/2023	07:00-23:00	41	31	60	44	39	60
08/01/2023	23:00-07:00	45	41	45			45
09/01/2023	07:00-19:00			75	53	45	65
09/01/2023	19:00-23:00	24	24	60	37	30	60
09/01/2023	23:00-07:00	35	31	45	39	32	45
10/01/2023	07:00-19:00	57	57	75	52	48	65
10/01/2023	19:00-23:00	30	30	60	41	34	60
10/01/2023	23:00-07:00	44	35	45	39	32	45
11/01/2023	07:00-19:00			75	55	35	70
11/01/2023	19:00-23:00			60	34	34	60
11/01/2023	23:00-07:00	43	36	45	44	36	45
12/01/2023	07:00-19:00			75	41	38	70
12/01/2023	19:00-23:00	26	26	60	41	38	60
12/01/2023	23:00-07:00	42	36	45	40	36	45
13/01/2023	07:00-19:00			75	36	31	70
13/01/2023	19:00-23:00			60	39	30	60
13/01/2023	23:00-07:00			45	42	31	45
L			•	1	1	·	

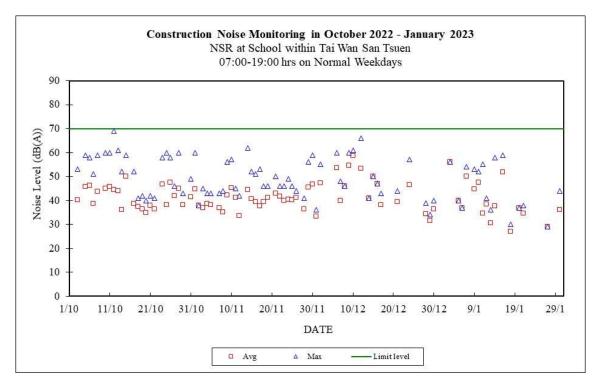
	0 - 0 0 1 0 0 0		50		50	2.2	5.0
	07:00-19:00	52	52	75	58	38	70
14/01/2023	19:00-23:00	24	24	60	39	33	60
14/01/2023	23:00-07:00	32	32	45	42	31	45
15/01/2023	07:00-23:00	41	41	60	60	45	60
15/01/2023	23:00-07:00	45	40	45	40	34	45
16/01/2023	07:00-19:00			75	59	52	70
16/01/2023	19:00-23:00	24	24	60	27	27	60
16/01/2023	23:00-07:00	45	42	45	36	32	45
17/01/2023	07:00-19:00			75			70
17/01/2023	19:00-23:00	38	29	60	36	35	60
17/01/2023	23:00-07:00	45	41	45	31	27	45
18/01/2023	07:00-19:00			75	30	27	70
18/01/2023	19:00-23:00	35	35	60			60
18/01/2023	23:00-07:00	45	35	45	32	32	45
19/01/2023	07:00-19:00			75			70
19/01/2023	19:00-23:00			60			60
19/01/2023	23:00-07:00	45	38	45	38	30	45
20/01/2023	07:00-19:00			75	37	37	70
20/01/2023	19:00-23:00			60	27	27	60
20/01/2023	23:00-07:00	24	24	45	39	35	45
21/01/2023	07:00-19:00			75	38	35	70
21/01/2023	19:00-23:00	12	12	60	40	33	60
21/01/2023	23:00-07:00			45	45	33	45
22/01/2023	07:00-23:00	39	39	60	39	33	60
22/01/2023	23:00-07:00	34	34	45	29	29	45
23/01/2023	07:00-23:00			60			60
23/01/2023	23:00-07:00	40	37	45	43	34	45
24/01/2023	07:00-23:00	39	39	60	37	35	60
24/01/2023	23:00-07:00	37	37	45	27	27	45
25/01/2023	07:00-23:00			60	36	30	60
25/01/2023	23:00-07:00	42	35	45	44	44	45
26/01/2023	07:00-19:00			75			70
26/01/2023	19:00-23:00	35	35	60			60
26/01/2023	23:00-07:00	41	39	45	40	36	45
27/01/2023	07:00-19:00			75	29	29	70
27/01/2023	19:00-23:00			60			60
27/01/2023	23:00-07:00	45	42	45	38	30	45
28/01/2023	07:00-19:00			75			70
28/01/2023	19:00-23:00			60			60
28/01/2023	23:00-07:00			45			45
29/01/2023	07:00-23:00	44	42	60	50	45	60
29/01/2023	23:00-07:00	45	41	45			45
30/01/2023	07:00-19:00			75	44	36	70
30/01/2023	19:00-23:00			60			60
30/01/2023	23:00-07:00	44	37	45	38	32	45
01/01/0005	07:00-19:00			75			70
31/01/2023							
31/01/2023 31/01/2023	19:00-23:00			60	49	37	60

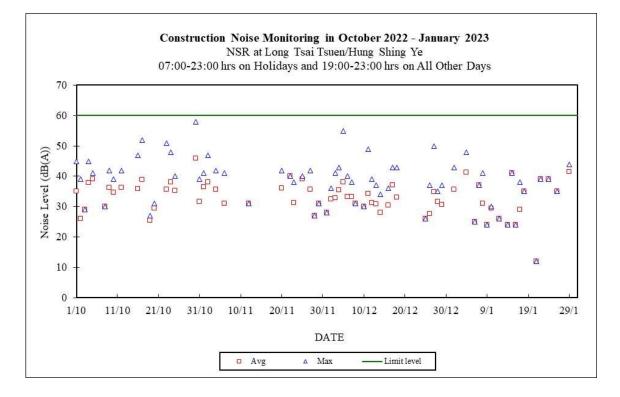
Note:

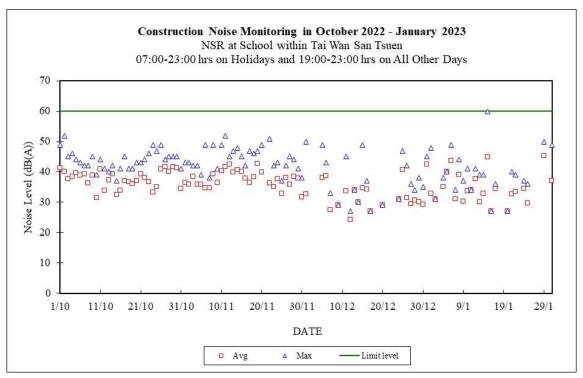
a. "---" represents the measured noise monitoring data lower than the established notional background level/discarded under strong wind.b. Continuous noise monitoring was also carried out at holidays & evening-

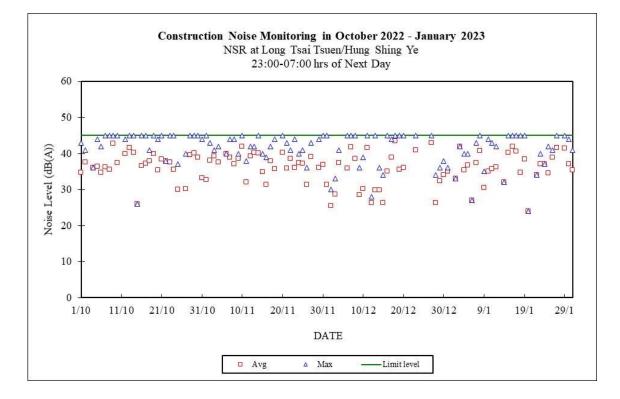
b. Continuous noise monitoring was also carried out at holidays & eveningtime (07:00-23:00 hrs on holidays and 19:00-23:00 hrs on all other days) and night-time (23:00-07:00 hrs of next day).

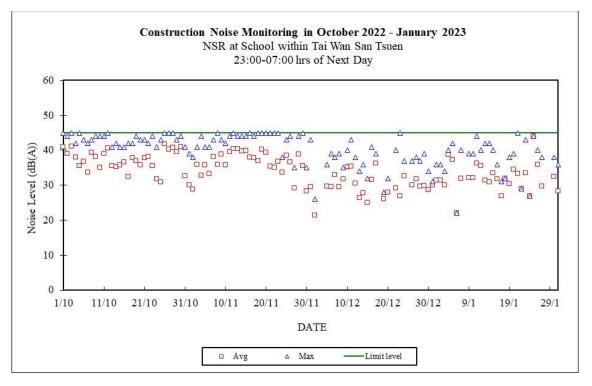












Appendix F

The QA/QC Procedures and Results

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

Month: January

Year: 2023

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)	
3/1/2023	270.713	4	3.02	10.31	
9/1/2023	270.022	4	2.97	10.31	
15/1/2023	269.704	4	2.96	10.31	
21/1/2023	269.127	4	3.01	10.31	
27/1/2023	268.486	4	3.03	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)	
3/1/2023	263.658	4	2.08	14.42	
9/1/2023	263.268	4	2.09	14.10	
15/1/2023	263.500	4	2.36	14.19	
21/1/2023	262.956	4	2.20	14.16	
27/1/2023	262.492	4	2.16	14.28	

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)	
3/1/2023	256.707	4	2.20	13.68	
9/1/2023	256.264	4	2.04	13.68	
15/1/2023	256.037	4	1.98	13.68	
21/1/2023	257.034	4	2.68	13.68	
27/1/2023	256.452	4	2.30	13.68	

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

<u>Remarks:</u>

Prepared by: Chris Chan

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

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
16/01/2023 / 10:15	WM Tam / Brian So

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS40
New filter paper no.	MS41

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>5.037</u> 5.037 (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

<u>Remarks</u>

N/A

Conducted by: WM Tam / Brian So

Checked by: <u>SM Hon</u>

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

Date	Location: A	Ash Lagoon	Location: (Ching Lam
	Calibration Results	Deviation from	Calibration Results	Deviation from
		Reference (dB)		Reference (dB)
01/01/2023	Passed	-0.04	Passed	0.02
02/01/2023	Passed	-0.07	Passed	0.03
03/01/2023	Passed	-0.06	Passed	0.03
04/01/2023	Passed	-0.04	Passed	0.04
05/01/2023	Passed	-0.06	Passed	0.04
06/01/2023	Passed	-0.03	Passed	0.03
07/01/2023	Passed	-0.05	Passed	0.03
08/01/2023	Passed	-0.05	Passed	0.03
09/01/2023	Passed	-0.06	Passed	0.03
10/01/2023	Passed	-0.05	Passed	0.04
11/01/2023	Passed	-0.03	Passed	0.04
12/01/2023	Passed	-0.05	Passed	0.06
13/01/2023	Passed	-0.04	Passed	0.07
14/01/2023	Passed	-0.06	Passed	0.01
15/01/2023	Passed	-0.09	Passed	-0.01
16/01/2023	Passed	-0.10	Passed	-0.01
17/01/2023	Passed	-0.09	Passed	-0.01
18/01/2023	Passed	-0.07	Passed	-0.02
19/01/2023	Passed	-0.06	Passed	-0.01
20/01/2023	Passed	-0.05	Passed	-0.01
21/01/2023	Passed	-0.05	Passed	-0.03
22/01/2023	Passed	-0.05	Passed	0.04
23/01/2023	Passed	-0.09	Passed	0.02
24/01/2023	Passed	-0.10	Passed	0.03
25/01/2023	Passed	-0.08	Passed	0.03
26/01/2023	Passed	-0.09	Passed	0.04
27/01/2023	Passed	-0.10	Passed	0.03
28/01/2023	Passed	-0.11	Passed	0.02
29/01/2023	Passed	-0.08	Passed	0.05
30/01/2023	Passed	-0.06	Passed	0.06
31/01/2023	Passed	-0.04	Passed	0.06

Remarks:

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

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

Appendix G Event/Action Plans

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

Table G.1Event and Action Plans for Air Quality

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

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

Exceedance	ET Leader	IEC	Engineer	Contractor
Action Level	Undertake noise measurement/check monitoring data to establish validity of complaint.	Review the analysed results submitted by the ET.	Notify Contractor of the complaint if proven.	Submit proposals for remedial actions to Engineer.
	If the complaint is valid, inform Engineer and IEC verbally.	Review the remedial measures proposed by the Contractor and advise the Engineer and ET accordingly.	Check Contractor's working methods and advise IEC and ET accordingly.	Amend proposals if required by the Engineer.
	Identify the source(s) of the noise.	Verify the implementation of the remedial measures.	Remind the Contractor of his contractual obligations and discuss remedial actions.	Implement the remedial actions immediately upon instruction from the Engineer.
	Discuss remedial actions required with Contractor and Engineer.		Keep the Contractor informed of the efficacy of remedial actions.	Liaise with the Engineer to optimise the effectiveness of the agreed mitigation.
	Increase manual monitoring frequency to assess efficacy of remedial measures.			
	If exceedance continues, review implementation of appropriate mitigation measures.			
Limit Level	Repeat manual measurement/check monitoring data to confirm findings.	Agree potential remedial actions with Engineer, ET and Contractor.	Notify Contractor of exceedance.	Take immediate action to avoid further exceedance.
	Identify the source(s) of the impact. If the exceedance is found to be valid and due to	Review Contractor's remedial actions / measures to ensure their effectiveness and advise the Engineer and ET accordingly. Verify the implementation of the remedial measures	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		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 measures	Make agreement on the mitigation measures to be implemented;	Check all plant and equipment; Consider changes of working methods;	
	working methods;		Assess the effectiveness of the	Propose mitigation measures to Engine	
	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: 3/1/2023, 13/1/2023, 17/1/2023, 26/1/2023 and 31/1/2023.

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: 5/1/2023, 12/1/2023, 19/1/2023 and 26/1/2023.

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

	A DATES & MILESTONES ontract Period	1123 days			
D	eferred Work Completion Key Dates ubstantial Completion of the Whole Contract Works (1123 Days)	784 days 0 days			
SIT	TE POSSESSION DATES	513 days			
S	ite Possession Date as phased site possesion plan and PS1.4.2 ite Possession Date as phased site possesion plan and PS1.4.2	0 days 0 days			
S	ite Possession Date as phased site possession plan and PS1.4.2 ite Possession Date as phased site possession plan and PS1.4.2	0 days 0 days			
	ite Possession Date as phased site possesion plan and PS1.4.2 ite Possession Date as phased site possesion plan and PS1.4.2	0 days 0 days			
	MPLETION DATES as per PS1.4.2 Time for Completion ection A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards leading to	609 days 0 days			
C	himney Road at Area F1 & F2 cection A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the	0 days			
as	ssociated roof structure except the roof deferred works	-			
6 S	ection A2 (i) External Works including CW Inlet Culvert at Area F8A ection A2 (ii) External Works including CW Intet Culvert at Area F8B	0 days 0 days			
	ection A2 (iii) External Works including CW Inlet Culvert at Area F8C ection B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road at	0 days 0 days			
	rea F3 ection B2 (i)- Southern Part of L12 HRSG areas and its surrounding refer to Area F6B as	0 days			
	nown in drawing no 553/03/2040 including the foundations for Gas Exhaust Duct				
	ection B2 (ii) - Remaining northern part of L12 HRSG area and its surrounding at Area 6A and F6C	0 days			
S	ection B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor ggether with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 for the	0 days			
in	stallation of power generator, air inlet duct and lube oil reservoir	0.1			
a	ection B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pipe Pit ad equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the installation	0 days			
3 S	f condenser ection C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in	0 days			
_	ldition to the southern & eastern areas mentioned above in Area F5 ection C - (ii) Whole of L12 MSB including the pipe and cable rack along south façade of	0 days			
L	12 MSB with all underground utilities at Area F4 including C.W. Inlet and Outlet Culvert scept the deferred works				
5 S	ection C - (iii) Link Bridge between L11 and L12 MSB including their associated A&A at 11 MSB	0 days			
S	ection D - (i) Microwave Antenna Room and Chimney Windshiled for the installation of	0 days			
S	action D (ii) - No. 5 Chimney with L12 Steel Flue liner	0 days			
) S	ection E (i) Tx Room of Adminintration and Control Building ection E (ii) - G/F,1/F, 2/F & Hoisting Well of Admin. & Control Building	0 days 0 days			
S	ection E (iii) - Whole of Admin. And Control Building ection F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room	0 days 0 days			
((JRS) Area Extension at Area F14 etion F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	0 days			
S	ection 7 (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at Area 10	0 days			
S	ection G (i) - External Work surrounding Area F11 ection G (ii) - External Works at Area F12 & F13	0 days 0 days			
S	ection G (iii) - FS Modification works along South Seafront Road at Area F15	0 days			
3 S	ection G (iv) - 275kV cable trenches and External Works at Area F16 ection G (v) - Shunt Reactor Compound and External Works at Area F17	0 days 0 days			
	ection G (vi) - 275kV cable trenches and External Works at Area F18 ection G (vii) - Flood Wall at No. 4 CW Intake Area along HUA at Area F20A	0 days 0 days			
S	eciton G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B eciton G (ix) - Bund wall modification works at South Seafront Road at Area F21	0 days 0 days			
3 S	ection G (x) - DAX Cable Diversion Works (from Part I to Part IV) ection H - All remaining works shall be completed for reporting completion to BD and		Part IV)	Section H - All remaining works shall be completed	for reporting completion to BD and ready for OP inspection
re	eady for OP inspection		· · ·		······································
6 F	INERAL & PRELIMINARY	228 days 18 days			
8 P	et up Temporary Site Office and Welfare Factiliites ermit Applications & Statuary Submissions	90 days 120 days			
	xisting Utilities scanning & Excavation Permit ower Crane erections	45 days 60 days			
TE	CHNICAL SUBMISSION AND APPROVAL	<u>314 days</u>			
3 S	D Approval & Consent (If required) ubmission and Approval of Master Programme	0 days 14 days			
	/ork Execuation Overal Plan submission & approval Iaterial Submissions and approval	14 days 300 days			
	Iethod Statement submission and approval IM Model, CSD & CBWD Submission & approval	300 days 120 days			
S	tructure Steelwork Connection Design Submission & BD approval tructure Steelwork Shop Drawing & Approval	45 days 30 days			
N	letal Cladding, louvre & windows shop drawing submission	45 days 45 days			
2 0	rder, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	120 days			
N	LS Submission and BD approval o. 5 Chimney windshield temporary work submission, approval & fabrication	90 days 60 days			
	teel Flue Assessment Report and Design Drawings submission & approval olding Shutters Shop Drawing Submission & Approval	60 days 30 days			
7 F	abrication & Delivery of Folding Shutters ewage Pump System Design submission & approval	180 days 45 days			
Field	ther material submission & approval & deproval brication & Delivery of Sewage Pump ther material submission & approval & delivery	180 days 180 days			
0	ther material submission & approval & delivery	180 days			
3 C	ONSTRUCTION Coordination with the Employer's Specialist Contractors	<u>1123 days</u> <u>421 days</u>			
4 5	Installation of Puddle Pipes at C.W. outlet Culvert Installation of Puddle Pipes at C.W. Inlet Culvert	7 days 7 days			
•	Template setting at L12 Turbo Block Foundation Template setting of holding down bolts at HRSG column base	45 days 45 days			
;	I-beam / channel base installation on top of transformer foundations at Transformer Area	45 days 45 days			
,	Overhead crane erection at turbine hall using access through a temporary opening at L12	38 days			
)	MSB roof between GL12-G to 12-H and 12-2 to 12-6 Condenser assembly and erection using access through a temporary façade opening at	122 days			
	L12 MSB below 1/F along GL 12-6 from GL12-B to 12-C including a clear space below 1/F between GL 12-B to 12-C $$				
	Installation of power train equipment including air inlet duct using access through a temporary façade opening at L12 MSB below 1/F along GL 12-6 from GL12-F to 12-H	121 days			
2	including a clear space below 1/F of the above area Installation of embedded materials such as holding down bolts for equipment	0 days			
	foundations - Commencement ection A1 (i) - Area south of L12 MSB and L12 HRSG from GL12-F eastwards	301 days			
<u></u>	eading to Chimney Road at Area F1 & F2				
5	Area Possession & Clearance Subletting / Fabrication / Delivery (both for Area F1 and Area F2)	30 days 60 days			
5	Excavation for CW Inlet Culvert (Type D Construction Area) Installation CW Inlet Culvert pipe + testing	14 days 30 days			
-	Construction of Thrust Box & Manholes,etc Backfill	14 days 14 days			
	Construction UG Utilities 2m deep below further surface Temporary Paving and handover for plant erection	30 days 13 days			
S	remporary raving and nandover for prant erection ection A1 (ii) - Supporting structures for overhead cranes of L12 MSB including the ssociated roof structure except the roof deferred workss	<u>301 days</u>			
;	Area Possession & Clearance	45 days			
- -	Subletting / Fabrication / Delivery Complete structural steel erection	210 days 0 days			
3 7	Install Crane Girders Construction of roof slab (except defer work)	18 days 21 days			
8	ection definition for fails (charge and how for for install overhead cranes ection A2 (i) External Works including CW Inlet Culvert at Area F8A	3 days 301 days			
<u>.</u>	BD consent for Sheetpile installation	30 days			
	D MASTER PROGRAMME		Milestone Summary		
VISED	D MASTER PROGRAMME Pauly Task Split 121 Rev. 1-A Task Split Split Split				
VISED					

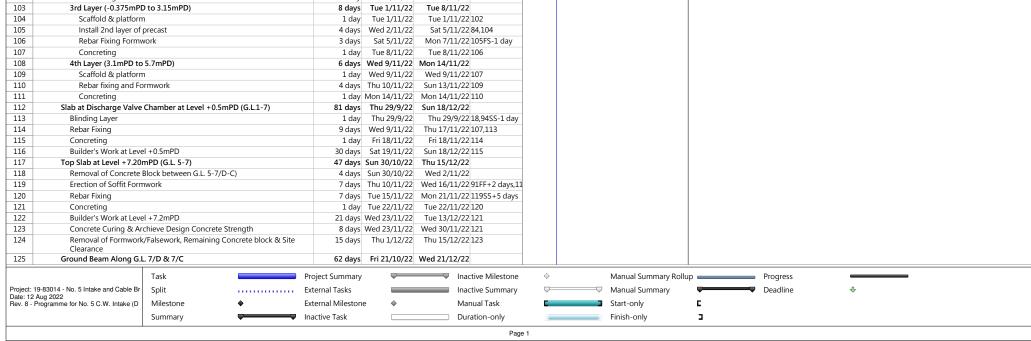
ID Task Nam		Duration	Feb	Mar	Apr
	letting / Fabrication / Delivery (both for Area F8A-F8B)	30 days	165		Api
⁰³ Inst	a Possession & Clearance all Sheet pile	14 days 55 days			
5 ELS	Consent for ELS S and install CW Inlet Pipe (NW to N direction)	28 days 60 days			
Cor Bac	struction of Thrust Box & Manholes,etc kfill, UG Utilities and Road Paving	36 days 79 days			
Sectio	n A2 (ii) External Works including CW Intet Culvert at Area F8B a Possession & Clearance	483 days 30 days			
BD	consent for Sheetpile installation all Sheet pile	30 days 90 days			
BD	Consent for ELS S and install CW Inlet Pipe	28 days 90 days			
Cor	satu instan Cw inter ripe Istruction of Thrust Box & Manholes,etc Kfill, UG Utilities and Road Paving	60 days 96 days			
Sectio	n A2 (iii) External Works including CW Inlet Culvert at Area F8C	182 days			
Sub	a Possession & Clearance letting / Fabrication / Delivery (for Area F8C)	30 days 60 days			
) Inst	consent for Sheetpile installation all Sheet pile	30 days 34 days			
ELS:	Consent for ELS S and install CW Inlet Pipe	28 days 40 days			
4 Bac	struction of Thrust Box & Manholes,etc kfill, UG Utilities and Road Paving	30 days 20 days			
at Ar	n B1 - Area south of L12 MSB from GL12-F westwards leading to Station Road a F3	<u>377 days</u>			
	a Possession & Clearance letting / Fabrication / Delivery	30 days 120 days			
Cor	nplete CW Pipe Installation & Thrust box kfill	45 days 14 days			
Cor	astruction of Storm Drain & Manholes p Paving and handover for Condenser Move in	80 days 20 days			
Sectio	ing the foundations for Gas Exhaust Duct	243 days			
Are	a Possession & Clearance letting / Fabrication / Delivery (for F6B Civil and E&M)	30 days 120 days			
Cor	struction of Underground pits	35 days			
Cor	avation & Construct Pile Caps & Tie Beams & Piers struction HRSG & Gas Duct foundations struction & UBSC Fouriement Pacement A PWE & PS (avaant T&C)	60 days 45 days			
Cor	Instruction of HRSG Equipment Room incl. ABWF & BS (except T&C)	150 days 45 days			
Bac	kfill & Construction on-grade slabs & RC plinths on top kfill and Temporary paving	60 days 21 days			
<u>Sectio</u> Area	n B2 (ii) - Remaining northern part of Ll2 HRSG area and its surrounding at F6A and F6C	<u>319 days</u>			
	a Possessiong and Clearance at Area F6A letting / Fabrication / Delivery (for Area F6A and F6C civil)	30 days 90 days			
Cor	struction of Underground pits avation & Construct Pile Caps & Tie Beams & Piers	30 days 60 days			
Cor	kind of our first of the caps of the sector	21 days 21 days			
Cor	Istruct RC Walls struct or of Underground utilities at F6C	90 days 60 days			
Bac	kfill and Temporary paving B2 - (iii) L12 Turbo Block foundation including the L12 MSB ground floor	15 days			
togetl	n B2 - (iii) L12 Turbo Block toundation including the L12 MSB ground floor iver with the equipment foundations between GL 12-F to 12-H and 12-1 to 12-6 e installation of power generator, air inlet duct and lube oil reservoir	<u>408 days</u>			
	a Possession & Clearance letting / Fabrication / Delivery (Civil+ABWF+BS for MSBL12)	45 days 150 days			
Cor	nplete excavation at Type A&C Construction Area	0 days			
Bac	avation & Pile Caps & Tie Beams + Slabs (Turbo Block North) Kfill and construction turbine block & equipment foundation stration & Bile Caps & Tie Beams + Slabe (Turbe Block South)	75 days 40 days			
Cor	avation & Pile Caps & Tie Beams + Slabs (Turbo Block South) Istruction of internal drainage & on-grade slab	45 days 30 days			
Cor	struction turbine block columns and upper portion for plant embed installation crete Turbine upper part foundation & clear falsework	21 days 30 days			
Cor Cor	struction of Lube Oil Room crete RC walls	45 days 50 days			
AB	Iding Services Works	30 days 45 days			
Rer Sectio	nove temporary falsework and scaffolding for installation of power generator n B2 - (iv) G/F of L12 MSB including the Condenser Pit, Circulating Water Pit and equipment foundations between GL 12-B to 12-C and 12-1 to 12-6 for the	13 days <u>377 days</u>			
instal	a Possession & Clearance	45 days			
Sub	avisoria de l'entre de la letter de	150 days 30 days			
Inst	all CW Outlet pipe all CW Outlet Box + lowest tie beam & caps	30 days 50 days			
Cor	struction of pile caps & tie beams & sump pits up to +2.5mPD	26 days			
Cor	kfill & Construction of CW Inlet Box + tie beams struction of pile caps & tie beams at SunShadeCover Area	24 days 18 days			
Cor	kfill and Construction ground beams & trenches & equipment foundations struction of indoor underground drainage	14 days 14 days			
Bac	kfill & construction on-grade slabs struction Column casting and RC walls	18 days 50 days			
AB	FW Works Iding Services Works	16 days 45 days			
Mis	Norks and Ready for condenser move in n C - (i) Roads and external grounds surrounding L12 MSB and L12 HRSG in	29 days 408 days			
	on to the southern & eastern areas mentioned above in Area F5	<u></u>			
	a Possession & Clearance letting / Fabrication / Delivery	30 days 210 days			
Cor	nplete substructure & Steel Erection works for MSB	0 days			
Cor	struction all utilities deeper than 2m from future road level struction of cable trenches	60 days 90 days			
Sectio	kfill and lay temporary paving n C - (ii) Whole of L12 MSB including the pipe and cable rack along south	21 days 408 days			
Outle	e of L12 MSB with all underground utilities at Area F4 including C.W. Inlet and t Culvert except the deferred works	47.5			
Sub	a Possession & Clearance letting / Fabrication / Delivery	45 days 120 days			
Bac	nstruction of pile caps & tie beams at Transformer Area kfill and on-grade slab at transformer Area	30 days 21 days			
Cor	astruction of Fire Walls at Transformer Area avation & Construction Blow Down Sum pit (SP Type B)	45 days 50 days			
Pre	aparation for S.Steelwork Erection ictural Delivery & Erection (Turhine Hall North fr G.L. 1-3/H->B)	7 days 35 days			
Stru	ctural Delivery & Erection (Equipment Floors) ctural Delivery & Erection (Equipment Floors) ctural Delivery & Erection (Turbine Hall South + East Elevation)	55 days 40 days			
Joii	t Tightening and touch up coating	145 days			
Cor	ernal Scaffolding Erection struction 1/F RC Slab	150 days 14 days			
Cor	Istruction 2/F RC Slab	18 days 18 days			
Cor	struction 4/F RC Slab struction 5/F RC Slab	18 days 18 days			
Cor	struction 6/F RC Slab struction Upper Roof RC Slab	14 days 10 days			
Cor Cor	struction Defer Roof RC Slab struction Defer Roof RC Slab (G.L. G-H)	25 days 14 days			
2 Cor	Istruction of Staircase ST-01 & lift shaft & machine room	150 days 14 days			
4 Lift	Installation IMT Resolution Installation Installation	75 days 75 days	-		
6 Cor	struction of RC plinth, kerbs & parapet Walls	75 days			
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ID Task Name					
		Duration	Feb	Mar	Apr
8 Waterr	on of Skylight & Roof Features proofing & Flooring at Roof	56 days 50 days			
9 ABFW	Works ng Services Works	120 days 135 days			
1 Metal	Cladding, Windows and Louvres incl. roof feature	145 days			
	val of external scaffolding ation of Catwalk at south elevation	95 days 21 days			
4 Claddi	ing, ABWF & BS Works	30 days			
	val of tempoary works & clearance for plant erection contractor C - (iii) Link Bridge between L11 and L12 MSB includin their associated	30 days 408 days			
A&A at	L11 MSB				
3 Sublett	onsent ting / Fabrication / Delivery (For BS and ABWF)	0 days 250 days			
	ng Works and plant set-up Intle of north scaffold for link bridge erection	30 days 0 days			
A&A v	works at South of L11 MSB	30 days			
	on of link bridge structural steel g of bridge deck	30 days 11 days			
Metal 1	roofing installation	24 days			
5 ABWF 6 BS Wo		30 days 20 days			
7 Ready	for power cable laying work by others	0 days			
	D - (ii) No. 5 Chimney with L12 Steel Flue Liner Possession & Clearance	485 days 45 days			
) Sublett	ting / Fabrication / Delivery (For Civil and BS for Microwave Antenna and	120 days			
Equipr Excava	ation & Pile Cap & Backfill + Ground slab	45 days			
2 Tower	Crane erection (Optional)	28 days			
4 Structu	ruction of Wind Shiled + clearance for internal floors and flue ural steel fabrication & Delivery for floors and staircase	150 days 90 days			
	on of steel floors ruction of G/F room incl. Microwave Antenna Rm	60 days 45 days			
7 Constr	ruction of 1/F RC slab	14 days			
	ruction of 2/F RC slab ruction of 3/F RC slab	14 days 16 days			
Constr	ruction of 4/F RC slab	16 days			
	ruction of 5/F RC slab ruction of Roof RC slab	18 days 18 days			
3 Steel F	Flue fabrication and delivery	145 days			
Lift &	for steel flue installation install steel flue liner + cladding works	14 days 90 days			
Section	n D (i) - ABWF and BS Works at Microwave Antenna Room and Chimney	<u>209 days</u>			
Remain	shield for installation of microwave and antenna ining ABWF & BS Works	100 days			
B Lift ins	stallation ation Louvre & Doors	90 days 30 days			
0 Mis wo	orks, Demobilization and ready for gas duct connection	17 days			
	E - (iii) Administration and Control Building Possession & Clearance + BD consent	<u>513 days</u> 60 days			
3 Sublett	ting / Fabrication / Delivery (For Civil+BS+ABWF)	21 days			
	ation works Earth Grid Installation	45 days 45 days			
³ Pile ca	ap and Tie Beam	45 days			
10.001	Crane Erection ucture + Bearing walls + On grade slabs	30 days 30 days			
Constr	ruction of RC up to 1/F incl. staircases	50 days			
1 Constr	ruction of RC up to 2/F incl. staircases ruction of RC up to 3/F incl. staircases	55 days 55 days			
	pary Hoist erection ruction of RC up to 4/F incl. staircases	14 days 30 days			
4 Constr	ruction of RC up to R/F incl. staircases	30 days			
	ruction of RC up to lift machine room ruction of RC up to UR/F	21 days 21 days			
' Extern	nal Wall Finish, Cladding + Windows and Louvres + Features	100 days			
	val of external scaffolding	45 days 60 days			
0 ABWF	F at G/F	120 days			
	m E (i) Complete Transformer Room for move in aring Works and plant set-up	60 days 21 days			
¹³ Subl	letting / Fabrication / Delivery (For NSC Lift)	180 days			
5 ABV	WF at 1/F WF at 2/F	100 days 100 days			
	WF at 3/F WF at 4/F	120 days 90 days			
ABV	WF at R/F	60 days			
	WF at UR/F + Lift Machine Room dge Erection & Connection	45 days 50 days			
¹¹ Buil	lding Services Works	160 days			
	mission of WW046 for completion allation of Raised floors	60 days 60 days			
4 Fals	se ceiling after BS works	60 days			
6 Subl	tion E (ii) Handover G/F, 1/F, 2/F & Hoisting Well Jetting / Fabrication / Delivery (For BS+ABWF)	<u>0 days</u> 149 days			
' Con	nstruction of New UG Grey Water Tank	60 days			
9 Exte	noval of Tower Crane ernal utiliites and road work	7 days 45 days			
) Subi	mission of WW046 for completion imsion of FS inspection	30 days 14 days			
2 Subi	misision for OP Inspection	14 days			
3 Section H (GRS) A	F (i) - Gas Receiving Station and L12 Gas Receiving Station Equipment Room area Extension at Area F14	<u>426 days</u>			
4 Area P	Possession & Clearance + BD consent	90 days			
6 Plate lo	ting / Fabrication / Delivery oad test	60 days 30 days			
7 Constr	ruction Equipment room extension	145 days			
9 Excava	ication of existing drainage ation & earthing for Skid foundations	45 days 21 days			
) Constr	ruction of Skid foundation ruct underground utilities and drainage	45 days 45 days			
2 Backfi	ill and road works	60 days			
	ate / install new fencing for completion Vork and ready for OP inspection	21 days 14 days			
11101 11	F (ii) - Pipe and Cable rack and external work at Area F9A and F9B	<u>515 days</u>			
	nsent + Site Possession at Area F9A & F9B	90 days			
7 Excava	ation & Plate load test ruction new footing for pipe rack	45 days 45 days			
9 Underg	ground utiilites and road works for completion	72 days			
	ural Steel fabrication & Delivery on of new pipe rack	90 days 60 days			
2 Mis. W	Vork and ready for OP inspection	21 days			
Area F10	F (iii) - No. 5 CW Equipment Room, pipe and cable rack, external works at 0	<u>273 days</u>			
4 Area P	Possession & Clearance + BD consent	90 days 150 days			
Excava	ting / Fabrication / Delivery For ABWF + BS ation & Plate load test	30 days			
	ruction new footing for equipment room structure for equipment room	45 days 90 days			
ABWF	FWorks	70 days			
BS Wo	orks ruction RC Wall & plinths & drainage at Chlorinator area	90 days 45 days			
2 Extern	nal wall finish & remove scaffolding	30 days			
	ation & Plate load test for pipe rack extension ruction new footing for pipe rack	30 days 45 days			
5 Underg	ground utilites and road works for completion	60 days			
	ural Steel fabrication & Delivery illing and prepare for steel erection	90 days 8 days			
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D Task Name		Duration	L		•
	tion of new pipe rack	70 days	Feb	Mar	Apr
Mis	Work and ready for OP inspection	15 days			
Are	n G (i) - External Work surrounding Area F11 a Possession & Clearance after handover from No. 5 Intake Contractor	<u>153 days</u> 30 days			
Sub	letting / Fabrication / Delivery mission WWO046 for commencement	30 days 30 days	-		
Con	struct Underground utilities and drainage	30 days	-		
	all new FS Hydrant mission WWO046 for completeion	20 days 30 days			
Con	struction Road extension	58 days	-		
Rea	struction road paving and install fencing	30 days 15 days			
Section	n G (ii) - External Works at Area F12 & F13	666 days			
Sub	a Possession & Clearance after handover from other letting / Fabrication / Delivery	45 days 180 days			
Exc	avation	21 days	-		
Con	mission WWO046 for commencement struct Underground utilities and drainage	30 days 90 days	-		
Inst	all new FS Hydrant	30 days	-		
Con	mission WWO046 for completion struction Road extension	30 days 127 days	-		
	uplete with Mis. Works for completion n G (iii) - FS Modification works along South Seafront Road at Area F15	15 days			
beeno	n G (iii) - FS Modification works along South Seafront Road at Area F15	<u>183 days</u>			
	a Possession & Clearance after handover from other	45 days	-		
B Ten	letting / Fabrication / Delivery porary Traffice Arrangement approval	21 days 14 days			
	ities scanning and expose existing FS ermine new FS alignment	14 days 21 days	-		
	mission to FSD	14 days			
Moo	lification of FS	60 days	-		
	kfill and reinstatment + report to FSD n G (iv) - 275kV cable trenches and External Works at Area F16	60 days <u>518 days</u>			
Are	a Possession & Clearance	60 days	-		
	letting / Fabrication / Delivery porary Traffice Arrangement approval	210 days 60 days	-		
Ren	noval of aboveground services	60 days			
	ities scanning and expose exising UU inge of diversion existing UG utilities	30 days 90 days	-		
Con	struct new cable trenches	173 days			
	figment / install new UG utilities fill and reinstate & ready for cable laying by others	60 days 45 days	-		
Section	n G (v) - Shunt Reactor Compound and External Works at Area F17	666 days			
	porary Traffice Arrangement approval letting / Fabrication / Delivery	45 days 100 days	-		
BD	approval & consent for sheetpile installation	90 days			
	a Possession & Clearance noval of aboveground services	14 days 21 days	-		
Util	ities scanning and expose exising UU	15 days	-		
	nge of diversion existing UG utilities Il pipe piles	45 days 61 days			
BA	4 for pipepile and BD consent for ELS	28 days			
	avation & install earthing struct Pile Caps and Tie Beams	35 days 45 days			
Bac	kfill & Erect scaffold struction of SRC Walls	21 days	-		
Wal	l finish and remove scaffolding	75 days 24 days			
Con	struct new cable trenches	60 days 117 days	-		
Bac	ligment / install new UG utilities kfill and reinstate & ready for cable laying by others	30 days			
Section	n G (vi) - 275kV cable trenches and External Works at Area F18 porary Traffice Arrangement approval	<u>397 days</u> 45 days			
Sub	letting / Fabrication / Delivery	60 days			
	a Possession & Clearance aval of aboveground services	15 days 30 days			
Util	ities scanning and expose exising UU	45 days			
Arra	nge of diversion existing UG utilities struct new cable trenches	60 days	-		
Rea	ligment / install new UG utilities	172 days 45 days			
bacl	fill and reinstate & ready for cable laying by others n G (vii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20A	30 days 301 days			
	a Possession & Clearance letting / Fabrication / Delivery	30 days 60 days	-		
Ten	porary Traffice Arrangement approval	14 days	-		
	BD approval & consent nolition of existing carriageway	90 days 30 days			
Ren	noval of aboveground services	21 days	-		
Arra	ities scanning and expose exising UU nge of diversion existing UG utilities	21 days 30 days			
Inst	all Sheet piles	45 days	-		
Exc	4 for sheetpile and BD consent for ELS avation and construction of new Flood wall	28 days 65 days			
Rea	ligment / install new UG utilities	30 days			
Mis	fill and construct new carriageway Work for completion	18 days 6 days			
	n G (viii) - Flood wall at No. 5 CW Intake Area along HUA at Area F20B	<u>365 days</u>			
	a Possession & Clearance	45 days			
	letting / Fabrication / Delivery aporary Traffice Arrangement approval	90 days 14 days	-		
ELS	BD approval & consent	90 days			
Den	nolition of existing carriageway noval of aboveground services	60 days 21 days			
Util	ities scanning and expose exising UU	21 days	-		
	nge of diversion existing UG utilities all Sheetpiles	30 days 55 days	-		
BA	4 for sheetpile and BD consent for ELS	28 days	-		
Exc	avation and construction of new Flood wall ligment / install new UG utilities	90 days 30 days	-		
bacl	fill and construct new carriageway	21 days	-		
	Work for completion n G (ix) - Bund wall modification works at South Seafront Road at Area F21	9 days 209 days			
	a Possession & Clearance letting / Fabrication / Delivery	45 days 90 days	-		
Ten	porary Traffice Arrangement approval	14 days	_		
	BD approval & consent nolition of existing carriageway	0 days 14 days	-		
Ren	noval of aboveground services	14 days			
	ities scanning and expose exising UU unge of diversion existing UG utilities	21 days 30 days			
Exc	avation and expose existing bund wall & demolish	18 days	-		
	struction new bund wall for road junction ligment / install new UG utilities	45 days 30 days	-		
bacl	fill and construct new carriageway	18 days	-		
	Work for completion n G (x) - DAX Cable Diversion Works (from Part I to Part IV)	5 days 758 days			
Ten	porary Traffice Arrangement approval	14 days	-		
	letting / Fabrication / Delivery a Possession & Clearance	90 days 45 days	-		
Ider	tification of existing cable trench	7 days	-		
	1 Re-excavation works incl.construction of joint bay 2 Re-excavation works incl. joint bay	246 days 120 days	_		
1 41 4	3 Re-excavation works incl. joint bay	242 days	k pite		
-	4 Re-excavation works incl. joint bay & new oil tank pits kfill & Reinstatement Part 1	92 days 61 days	k pits		
	· · · · · · · · · · · · · · · ·		1	1	
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461 Backfill & Reinstatement Part 2	61 days	Feb	Mar	Apr May
462 Backfill & Reinstatement Part 3 463 Section H - All remaining works shall be completed for reporting completion to BD	61 days <u>478 days</u>			
and ready for OP inspection (PS1.4.4) 464 Deferred works (MSB & HRSG) Listed in PS 1.4.4	281 days			
465 Construction of L12 MSB roof between GL12-G to 12-H and 12-2 to 12-6 after the overhead crane installation by the Employer's Specialist Contractors	38 days			
666 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	92 days			
Contractor shall allow access for the Employer's Specialist Contractors to use the hoisting we				
Provision in associated with hoisting well Construction of internal partition wall at 1/F ofL12 MSB along GL 12-C from GL	21 days 30 days	-		
12-2 to 12-3 AND North Façade at 1/F of L12 MSB along GL 12-1 from GL 12-B to 12-C	50 days			
⁶⁹ Construction of metal fence and the associated Fire Services (F.S.) installations and	92 days			
installation of removable shelter at Transformer Area 70 Deferred works (DAX1 and DAX2) Listed in PS 1.4.4	334 days			
471 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			Backfilling of whole DAXI compartment inside existing joint bay "STJI2" and the new oil
Re-excavation of whole DAX2 compartment inside existing joint bay "STJI2".	61 days			
⁷³ 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			
74 Deferred works (External Work) Listed in PS 1.4.4	121 days	Final minetatement of access roads and navemen	t surrounding and within L12 MSB and L12 HRSG area	📁 31 Mar '23
and L12 HRSG area	62 days	Final reinstatement of access roads and pavemen	n surrounding and within L12 was and L12 mad area	
¹⁷⁶ Installation of trench cover and road reinstatement of gas pipe and cable trenches within Area F5, F14, F16, F17 and F18.	90 days			Installation of trench cover and road reinstatement of gas pipe and cable trenches within
 Backfilling and road-reinstatement of 275kV cable trenches All Remaining work ready for OP inspection 	90 days 0 days	•	All Remaining work ready for OP inspection	Backfilling and road-reinstatement of 275kV cable trenches
79 STATUTORY SUBMISSION, INSPECTION & APPROVAL	865 days?			
/ Approval		-		
81 WSD : Submit to WSD Form WWO 046 Part I to II - FOR ACB Building (for Ext Works at later stage)	0 days			
 WSD: Vetting Form WWO 046 Part I and II Submission WSD: Issued of Form WWO 046 Part III by WSD - FOR ACB Building 	90 days 0 days			
84 WSD: Prepare for 1st Amendment for Plumbing Plan 85 WSD: Submit to WSD 1st Amendment for Plumbing Plan	60 days 0 days	-		
WSD: Vetting of Plumbing Plan by WSD	60 days	-		
37 WSD: 1st Approval for Plumbing Plan by WSD 38 WSD: Prepare and Submit for Final Amendment for Plumbing Plan	0 days 45 days			
 WSD: Vetting and Final Approval for Plumbing Plan by WSD WSD Statutory Submission, Inspection and Approval WWO Part IV to V Fire 	0 days 34 days?	-		
Services Water Submission / Approval 91 WSD: Form WWO 046 Part IV Submission (FS)	0 days	-		
WSD: WSD Recieved Form WWO046 Part IV and arrange for inspection (FS) 93 WSD: WSD Inspection (FS)	7 days 7 days	-		
WSD: WWO 046 Part V Endorsement by WSD (FS)	12 days	-		
WSD: Issue by WSD Water Supply Connection Certificate (FS)	7 days 0 days?			
³⁷ WSD Statutory Submission, Inspection and Approval WWO Part IV to V Potable /Flush Water Submission / Approval	60 days			
98 WSD: Form WWO 046 Part IV Submission (Fresh/Flush) 99 WSD: WSD Acknowledge Form WWO 046	0 days 6 days			
00 WSD: WSD Inspection with Testing to lead (Fresh/Fluhs)	12 days 6 days			
WSD: Collection of Sample for Testing at Accredited Lab (Fresh/Flush)	12 days	-		
03 WSD:Accredited Lab Testing Report of Sample to WSD 04 WSD: Vetting of Test Report by WSD	12 days 6 days	-		
WSD: Issue of WWO 046 Part V (Fresh/Flush) WSD: WSD Processing WW01005 Water Certification (Fresh/Flush)	0 days 6 days			
07 WSD: Issue by WSD WWO 1005 Water Certification (Fresh/Flush) 08 EMSD LIFT Statutory Submission, Inspection and Approval	0 days 45 days	-		
⁰⁹ EMSD: Submission of Lift Form LE5 to EMSD	12 days	-		
EMSD: EMSD Inspection to Lift Installation	5 days 14 days			
12 EMSD: Processing Lift Certificate (Form LE6) 13 EMSD: Lift Issuance of Form 6 (Lift Certificate)	14 days 0 days	-		
Item 14 HKE Transformer Final Inspection 15 TX Room: Invite HKE For Transformer Room Inspection	120 days 7 days			
16 TX Room: Give Access to Transformer Room for HKE Contractor	0 days			
TX Room: Install HKE Transformer, MEP Works & Testing	5 days 90 days	-		
519 TX Room: HKE Power Energization / Inspection 520 TX Room: Metering Installation	6 days 12 days			
21 TX Room: HKE Power-ON Date 22 DSD Drainage Completion Memo	0 days 65 days			
23 DSD: CCTV Survey Report on Completed Drainage 24 DSD: Submitted CCTV Report & Form HPB1 of Completed Drainage to DSD For	30 days 7 days	-		
Technical Audit	-	-		
2021 Completed Dramage System mentaling Three Inspections Feenment Finder of 202	14 days	-		
26 DSD: Preparation of Drainage Connection Completion Memo by DSD 27 DSD: Issue of Drainage Connection Completion Memo by DSD	14 days 0 days			
EPD Submission, Inspection and Approval EPD: License Application to EPD under APCO (Cap 311) for Generator Sets	60 days 0 days			
EPD: Vetting of Application by EPD under APCO (Cap 311) for Generator Sets	60 days			
31 EPD: Approval from EPD under APCO (Cap 311) for Generator Sets Installation	0 days			
FSD VAC Statutory Submission, Inspection and Approval	150 days	-		
33 Preparation of FSD VAC Drawings and Submission to HEC 34 HEC: Review and Approval	60 days 30 days			
35 Preparation of VAC Drawings and Submission to FSD 36 FSD: Review and Approval	30 days 30 days	-		
FSD Statutory Submission, Inspection and Approval 78 Testing and Commissioning (Individual System - FSI Related)	91 days 45 days	28 Feb '23 🥃		Testing and Commissioning (Individual System - FSI Related)
³⁹ FSD: All Sections FS Ingration Test by NSC_BS	15 days	-		FSD: All Sections FS Ingration Test by
FSD: Submit Form 213/314 & Form 501 Request for Inspection	0 days 0 days	-		FSD: Submit Form 213/314 & Form 5
42 FSD: FSD Makes Arrangement for Inspection 43 FSD: FSD Inspection	7 days 12 days			FSD: FSD Makes Arrange
44 FSD: Completion of FS Inspection 45 FSD: FSD Processing FS Certicate Form 172	0 days 12 days	-		▲ FS
46 FSD: Issue of Fire Services FS Certificate Form 172 77 PRACTICAL COMPLETION	0 days			
INACTION 48 BD Inspection	216 days 97 days	-		
 BD: Application Form BA13 for OP Application BD: BD Inspection Date 	21 days 15 days			
51 BD: Reinspection date with defects and rectification works 52 BD: Obtain Occupation Permit (OP) from BD	60 days 1 day			
As-Built Drawings & Handover Documentation Prepare and Submit As-Built Drawings & Handover Documentation	120 days	-		
Review and Approval	45 days 45 days	-		
56 As-Built Drawings & Handover Documentation - Revision by MC 57 Revised As-Built Drawings & Handover Documentation - Final Submission	30 days 0 days			
58 Completion of the Whole Contract Works 59 1st Client Inspection for Review and Comments	119 days 30 days	-		
60 Defects and Rectification works 61 2nd Client Inspection	60 days 14 days			
Minor Defects Rectification Works and Final Inspection	15 days			
63 PRACTICAL COMPLETION	0 days			
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		Page 5 of 5		

ID	Task Name	Duration	Start	Finish	Predecessors			
						Feb	Mar	 Apr
	19-83014 - Civil Works for No. 5 C.W. Intake and Cable Bridge at Lamma Power Station Extension	223 days	Fri 22/7/22	Wed 1/3/23	3			
2	No. 5 C.W. Intake	144 days	Fri 22/7/22	Mon 12/12/22	2			
3	Delivery of Precast No. 5 Intake Chamber	3 days	Fri 22/7/22		2			
4	Installation of Precast No. 5 Intake Chamber		Mon 25/7/22			_		
5	Prepare formation level for reinstall culvert Reinstate of culvert		Wed 27/7/22 Mon 15/8/22	Sat 13/8/22 Sun 21/8/22		-		
7	Reinstate of seawall block	-	Mon 22/8/22					
8	Backfill at East Side	20 days	Mon 19/9/22	Sat 8/10/22		_		
9	Reinstate of seawall coping		Thu 3/11/22		2 8FS+25 days	-		
10	Reinstate of storm drain (MH806 to MH805) Temporary backfill for access at east of Intake Chamber	30 days 10 days	Thu 3/11/22 Sat 3/12/22	Fri 2/12/22 Mon 12/12/22	2 43FS+10 days 2 9 10	-		
12	In-situ Construction Work for Intake Chamber		Sat 20/8/22	Wed 1/3/23		_	,	
13	Backfilling Work between Pipepile and Intake Chamber External Wall		Sat 20/8/22	Wed 7/9/22				
14	Backfilling upto +2.80mPD - North side (Between pipepile & W13)	14 days		Fri 2/9/22		_		
15 16	Backfilling upto +2.80mPD - South side (Between pipepile & W1) Backfilling upto +1.40mPD - West side (Between pipepile & W19)	5 days 5 days	Sat 3/9/22 Sat 3/9/22	Wed 7/9/22 Wed 7/9/22		-		
17	Backfilling at Discharge Valve Chamber to -0.5mPD	10 days	Fri 9/9/22					
18	Backfill from -5.50mPD to -1.50mPD for Discharge Valve Chamber	10 days	Fri 9/9/22	Sun 18/9/22				
19	Install Concrete Block Counter Weight	-	Tue 23/8/22	Fri 16/9/22		_		
20	Installation of Concrete Block inside/ on intake chamber/ culvert Removal of Internal Strut/ King Post	25 days 28 days	Tue 23/8/22 Sat 20/8/22	Fri 16/9/22 Fri 16/9/22		-		
22	Removal of Internal Strut/ King Post	28 days		Fri 16/9/22				
23	Dewatering		Tue 20/9/22					
24	Dewatering in Chamber Internal Side	3 days			2 14,15,17,19	_		
25 26	Corrosion Protection of Rebar Corrosion Protection of Rebar	8 days 8 days	Fri 23/9/22 Fri 23/9/22	Fri 30/9/22 Fri 30/9/22		-		
27	Construction of Intake Chamber External Wall to Level +5.70mPD		Sun 28/8/22			_		
28	Erection of Scaffolding Supporting Bracket		Sun 28/8/22					
29	North Side - W13 (Chamber Internal Side)	,	Sun 28/8/22 Fri 2/9/22	Fri 2/9/22 Wed 7/9/22		-		
30 31	South Side - W1 (Chamber Internal Side) West Side - W19 (Chamber Internal Side)	6 days 6 days	Fri 2/9/22 Mon 19/9/22	Wed 7/9/22 Sat 24/9/22		-		
32	East Side - (Chamber Internal Side)	18 days			2 38SF-1 day			
33	Installation of Scaffolding	51 days	Sat 3/9/22	Sun 23/10/22	2			
34	Chamber Internal Side	51 days		Sun 23/10/22		-		
35 36	North Side - W13 South Side - W1	5 days 5 days				-		
37	West Side - W19	5 days						
38	East Side	15 days		Sun 23/10/22		-		
39 40	Chamber External Side North Side - W13	51 days		Sun 23/10/22		_		
40	South Side - W1	5 days 5 days	Sat 3/9/22 Thu 8/9/22			-		
42	West Side - W19		Mon 19/9/22	Fri 23/9/22				
43	East Side		Sun 9/10/22					
44	Rebar Fixing & Formwork	58 days				-		
45 46	North Side - W13 South Side - W1	23 days 53 days	Thu 8/9/22 Tue 13/9/22	Fri 30/9/22 Fri 4/11/22		-		
47	West Side - W19	33 days						
48	Concreting			Sun 16/10/22		-		
49 50	North Side - W13 South Side - W1	1 day		Sat 1/10/22		_		
50	West Side - W1	1 day 1 day	Sat 5/11/22 Wed 2/11/22			-		
52	Wall construction at Penstock Chamber			Fri 16/12/22				
53	External wall		Mon 24/10/22					
54 55	W29 W26		Mon 7/11/22			-		
55	W4B & W4C			Wed 16/11/22 Fri 11/11/22		-		
57	W27 & W28			Sat 26/11/22		-		
58	W24 & W25		Sun 27/11/22					
59 60	W4A Excavation and installation of CW culvert pipes			Fri 16/12/22 Mon 12/12/22		_		
61	Excavation and installation of CW curvers pipes			Fri 28/10/22		_		
62	Installation of CW culvert pipes			Wed 23/11/22		1		
63	Backfill at west of Intake Chamber			Mon 28/11/22		_		
64 65	On grade slab & plinths construction at west of Intake Chamber Construction of trash pit & RC footings for hoist support			Mon 12/12/22 Tue 28/2/23				
66	Backfill to bottom level of trash pit at south of Intake Chamber	-		Tue 22/11/22		-		
67	RC works for trash pit & hoist support footings			Thu 22/12/22				
68 69	Backfill to ground level at south of Intake Chamber On grade slab & plinths construction at south of Intake Chamber	7 days 22 days	Tue 31/1/23 Tue 7/2/23		3 67,233FS+10 d 3 68,206FS+7 da			
70	North Chamber (L12)	91 days		Thu 22/12/22				
71	W11, W12 & W23	50 days	Fri 23/9/22	Fri 11/11/22	2			
72	1st Layer (-5.5mPD to -4.6mPD)	20 days		Wed 12/10/22		-		
73	Scaffold & platform Install steel frame for precast panel	7 days 8 days				-		
75	Rebar Fixing Formwork			Tue 11/10/22				
76	Concreting			Wed 12/10/22		_		
77	2nd Layer (-4.8mPD to -0.875mPD) Scaffold & platform			Sat 22/10/22 Thu 13/10/22				
78	Install 1st layer of precast			Tue 18/10/22 Tue 18/10/22		4		
80	Rebar Fixing Formwork			Fri 21/10/22				
81	Concreting			Sat 22/10/22		-		
82 83	3rd Layer (-0.875mPD to 2.65mPD) Scaffold & platform		Sun 23/10/22	Fri 4/11/22 Mon 24/10/22				
83	Install 2nd layer of precast			Mon 24/10/22 Mon 31/10/22		4		
85	Rebar Fixing Formwork		Mon 31/10/22		2 84FS-1 day			
86	Concreting		Fri 4/11/22			4		
87 88	4th Layer (2.65mPD to 5.7mPD) Scaffold & platform		Sat 5/11/22 Sat 5/11/22	Fri 11/11/22 Sat 5/11/22				
88	Install 3rd layer of precast			Mon 7/11/22				
90	Rebar fixing and Formwork	4 days	Mon 7/11/22	Thu 10/11/22	2 89FS-1 day			
91	Concreting	-	Fri 11/11/22			-		
92 93	W10a-d & W20 1st Layer (-5.5mPD to -4.6mPD)	46 days 13 days		Mon 14/11/22 Wed 12/10/22		4		
93	Scaffold & platform	7 days		Thu 6/10/22		1		
95	Install steel frame for precast panel	2 days	Sat 8/10/22	Sun 9/10/22	2 74,94			
96	Rebar Fixing Formwork			Tue 11/10/22	,	4		
97 98	Concreting 2nd Layer (-4.8mPD to -0.375mPD)			Wed 12/10/22 Mon 31/10/22		-		
98	Scaffold & platform			Fri 14/10/22				
100	Install 1st layer of precast	8 days	Wed 19/10/22	Wed 26/10/22	2 79,99			
101	Rebar Fixing Formwork			Sun 30/10/22		_		
102 103	Concreting 3rd Layer (-0.375mPD to 3.15mPD)			Mon 31/10/22 Tue 8/11/22				
103	Scaffeld & platform			Tue 8/11/22		4		



Description Total Processing Total Processing <thtotal processing<="" th=""> <thtotal processing<="" th=""></thtotal></thtotal>		isk Name	Duration Start	Finish Predecessors	
	ID Ta 126				Feb Mar Apr
	127	Excavation	4 days Tue 8/11/2	2 Fri 11/11/22 89	
	128		1 day Sat 12/11/2	2 Sat 12/11/22 127	
	130		,		
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	140	-	3 days Mon 31/10/2	2 Wed 2/11/22 139	
	141 142				
Bit Society Soc	143	Scaffold & platform	2 days Fri 4/11/2	2 Sat 5/11/22 141	
	144 145				
	146	Concreting	1 day Tue 15/11/2	2 Tue 15/11/22 145	
	147 148	-			
Convert Fig. 2013/00 Start Convert Fig. 2013/00 Start Fig. 2013/00 Fig. 2013/00 Start	149	Install 2nd layer of precast	3 days Mon 21/11/2	2 Wed 23/11/22 148,165	
30 Bit Law 2 Stark Bit Shark Bit Sha	150 151	5	,		-
Mill Find Findsor Spring Find Findsor Spring Bit Find Findsor Suffix Find Findsor Suffix Bit Find Findsor Findsor Find Findsor Suffix Find Findsor Findsor Find Findsor Find Find Find Find Find Find Find Find	152	4th Layer (2.65mPD to 5.7mPD)	13 days Tue 29/11/2	2 Sun 11/12/22	
31 Nature 1, Sing 1, S	153 154				-
20 Web 97 Section 97 Section 97 Section 20 Web Section 97 Section 97 Section 97 Section 20 Medical Section 85 Section 97 Se	155	Rebar fixing and Formwork	4 days Wed 7/12/2	2 Sat 10/12/22 154	
3 Introduction Section 2. 20 Address Technology Techn	156 157	-			
10 Extensional matrix Extensional matrix 11 Extensional matrix Extensional matrix 12 Extensional matrix Extensional matrix 13 Extensional matrix Extensional matrix 14 Extensional matrix Extensional matrix 13 Extensional matrix Extensional matrix 14 Exten	158	1st Layer (-5.5mPD to -4.6mPD)	19 days Thu 27/10/2	2 Mon 14/11/22	
Image: Section of Sec	159 160	•			
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20 August System 1.100 10.100 0.100 0.100 20 Restrict System 1.100 10.100 0.100	162 163				
Image Image <th< td=""><td>164</td><td>Scaffold & platform</td><td>2 days Tue 15/11/2</td><td>2 Wed 16/11/22 162</td><td></td></th<>	164	Scaffold & platform	2 days Tue 15/11/2	2 Wed 16/11/22 162	
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13 Rebar Fixing Formwork 4 days Sat 3/2/22 14 Concreting 11 day Wed 7/2/22 U3 15 2nd Layer (-143mPD to -0375mPD) 11 day Sat 8/1/22 16 Scaffold & platform 2 days Fink 9/1/22 17 Install 1st layer of precast 4 days Sat 10/1/22 18 Rebar Fixing Formwork 4 days Sat 10/1/22 19 Concreting 11 day Sat 10/1/22 20 3rd Layer (-0375mPt) to 3.15mPD) 11 days Sat 1/1/22 21 Install a layer of precast 4 days Sat 2/1/22 22 Scaffold & platform 2 days Mon 19/1/22 Tue 20/1/22 22 Install a layer of precast 4 days Sat 2/1/22 Sat 2/1/22 23 Rebar Fixing Formwork 4 days Sat 3/1/22 Sat 4/1/22/20.01/21 24 Concreting 1 day Sat 1/1/22 Sat 4/1/22/20.01/22.11 25 4th Layer 6 J.mPD to 5.7mPD 9 days Fi 3/0/2/22 Sat 1/1/23 26 Scaffold & platform 2 days Sat 1/1/23 Sat 1/1/23	211	Scaffold & platform	2 days Sun 27/11/2	2 Mon 28/11/22 190	
14 Concreting 1 day Wed 7/12/22 Wed 7/12/22 Sun 18/12/22 15 Scaffold & platform 2 days Thu 8/12/22 Fir 9/12/22 214 16 Scaffold & platform 2 days Thu 8/12/22 Fir 9/12/22 214 17 Install stalyer of precast 4 day Sun 10/12/2 Tu 13/12/22 16/216 18 Rebar Fining formwork 4 days Sun 18/12/22 Sun 18/12/22 19 Concreting 1 day Sun 18/12/22 Sun 18/12/22 20 3rd dayer (0.375mPt 0 5.15mP0) 11 days Mon 19/12/2 Thu 29/12/22 Thu 29/12/22 21 Scaffold & platform 2 days Mon 19/12/2 Sun 28/12/22 Sun 28/12/22 22 Install and layer of precast 4 days Sun 25/12/22 Sun 28/12/22 Sun 28/12/22 23 Rebar fining and formwork 4 days Sun 25/12/22 Sun 28/12/22 Sun 28/12/22 24 Concreting 1 day Sun 11/12/3 Sun 11/12/3 Sun 11/12/3 25 44h Layer (3.1mPh to 5.7mPD) 9 days Sun 11/12/3 Sun 11/12/3 Sun 11/12/3 26 Sca	212				-
11 Scaffold & platform 2 days The 91.2/22 Fri 91.2/22 214 121 Install is layer of precast 4 days Stal 10/1.2/22 Tue 13.12/22 196.216 128 Rebar Fixing Formwork 4 days Weil 14/1.2/22 Stal 10/1.2/22 Tue 13.12/22 196.216 129 Concreting 1 day Sun 18/1.2/22 Tue 20.12/22 Stal 10/1.2/22 120 3rd duyer (-0.375mPD to 3.15mPD) 1 day Sun 18/1.2/22 Tue 20.12/22 Stal 10/1.2/22 122 Scaffold & platform 2 days Mon 19/1.2/22 Tue 20.12/22 Stal 1.2/2.2/22 122 Install and layer of precast 4 days Sun 25/1.2/22 Var 20.12/22 Stal 1.2/2.2/22 123 Rebar Fixing Formwork 4 days Stal 1.2/2.2 Stal 1.2/2.2/22 Stal 1.2/2.2/22 124 Concreting 1 day Stal 1.2/2.2 Thu 29.12/2.2 Stal 1.2/2.2 125 Ath Layer (3.1mPD to 5.7mPD) 9 days Stal 1.2/2.2 Stal 1.2/2.2 Stal 1.2/2.2 126 Scaffold & platform 2 days Stal 1.2/2.2 Stal 1.2/2.2 Stal 1.2/2.2 127 Rebar Fixing Form	214	Concreting	1 day Wed 7/12/2	2 Wed 7/12/22 213	
11 Install 1st layer of precast 4 days Set 10/12/22 Tote 13/12/22 196.216 128 Rebar Fibring Formwork 4 days Wed 14/12/22 Sat 17/12/22 217 120 Concreting 1 day Sun 18/12/22 Sun 18/12/22 Sun 18/12/22 120 Safdid & Jafoform 2 days Mon 19/12/22 True 29/12/22 True 29/12/22 122 Install 2nd layer of precast 4 days Wed 14/12/22 Wed 28/12/22 Sat 24/12/22 Sat 24/12/22 123 Rebar Fibring Formwork 4 days Sun 12/122 True 29/12/22 True 29/12/22 Sat 24/12/22 Sat 24/12/23 Sat 24/12/23 Sat 24/12/	215 216	• • • • • • • • • • • • • • • • • • • •			-
1 day Sun 18/12/22 Sun 18/12/22 Sun 18/12/22 Sun 18/12/22 20 3rd Layer (-0.375mPt to 3.15mP0) 11 days Mon 19/12/22 Thu 29/12/22 21 Scaffold & platform 2 days Mon 19/12/22 Tu 29/12/22 22 Install 2nd layer of precast 4 days Wed 21/12/22 Tu 29/12/22 223 Rebar Fixing Formwork 4 days Sun 25/12/22 Wed 28/12/22 Wed 28/12/22 224 Concreting 1 days Mon 19/12/22 Thu 29/12/22 Thu 29/12/22 225 4th Layer (3.1mPb to 5.7mPD) 9 days Fri 30/12/22 Sat 31/12/22 Sat 71/23 226 Scaffold & platform 2 days Fri 30/12/22 Sat 31/12/22 Sat 71/23 227 Rebar fixing and Formwork 6 days Sun 18/12/3 Sat 71/23 Sat 71/23 228 Concreting 1 day Sun 8/1/23 Sat 71/23 Sat 71/23 230 Removal of Concrete Block between G.L 1-3/D-C) 4 days Sun 8/1/23 Sat 71/23 Sat 71/23 231 Erection of Soffit Formwork 7 days Sun 8/1/23 Sat 14/1/23 208.228 Sat 71/23 </td <td>217</td> <td>Install 1st layer of precast</td> <td>4 days Sat 10/12/2</td> <td>2 Tue 13/12/22 196,216</td> <td></td>	217	Install 1st layer of precast	4 days Sat 10/12/2	2 Tue 13/12/22 196,216	
220 3rd Layer (-0.375mPt) to 3.15mPD) 11 days Mon 19/12/22 Thu 29/12/22 219 221 Scafiold & platform 2 days Mon 19/12/22 Sta 24/12/22 2012,221 222 Install Zn layer of precast 4 days Wed 21/12/22 2012,222 223 Rebar Fixing Formwork 4 days wor 25/12/22 224 Concreting 1 days Mn 19/12/22 225 Stat/12/22 Stat 21/12/22 Stat 21/12/22 226 Scaffold & platform 2 days Fri 30/12/22 Stat 11/12/22 227 Rebar fining and Formwork 6 days Sun 11/12/2 Stat 11/12/22 228 Concreting 1 day Sat 71/123 Stat 11/12/22 229 Top Slab at Level + 7.20mPD (G. L-3) 44 days Sun 11/12/23 Sat 11/12/23 229 Removal of Concrete Bick between G.L 1-3/D-C) 44 days Sun 18/1/23 Sat 14/1/23 2012,23215+1 day 231 Erection of Soffit Formwork 7 days Sun 18/1/23 Sat 14/1/23 2012,5324 232 Rebar Fixing Concrete Struting & Archive Pesign Concrete Strength 1 day Fri 20/12/3232 234 Builder's Work at Level + 7.2mPD<	218 219	-			-
222 Install 2nd Jayer of precast 4 days Wed 21/12/22 Sat 24/12/22 201,221 223 Rebar Fixing Formwork 4 days Sun 25/12/22 Wed 28/12/22 223 224 Concreting 1 day Thu 29/12/22 Sat 71/123 225 4th Layer (3.mPD to 5.7mPD) 9 days Fri 30/12/22 Sat 71/123 226 Scaffold & platform 2 days Fri 30/12/22 Sat 71/123 227 Rebar fixing and Formwork 6 day Sat 71/123 228 Concreting 1 day Sat 71/123 229 Top Slab at Level + 7.20mPD (G.L 1-3) 41 days Sun 8/1/23 231 Erection of Soffit Formwork 7 days Sun 8/1/23 232 Rebar Fixing 9 days Fri 20/12/23 233 Concreting 1 day Sun 8/1/23 234 Builder's Work at Level + 7.2mPD 9 days Sat 14/12/23/23125+3 days 235 Concreting 1 day Fri 20/1/23 Thu 19/1/23/23125 236 Concreting 1 day Sat 14/12/23 Sat 14/12/23/232 237 Rebar Fixing 9 days Sat	220	3rd Layer (-0.375mPD to 3.15mPD)	11 days Mon 19/12/2	2 Thu 29/12/22	
223 Rebar Fixing Formwork 4 days Sun 25/12/22 Wed 28/12/22 222 224 Concreting 1 day Thu 29/12/22 Sta 7/1/23 225 44h Layer (3.mPb to 5.7mPD) 9 days Fri 30/12/22 Sta 7/1/23 226 Scaffold & platform 2 days Fri 30/12/22 Sta 7/1/23 227 Rebar fixing and Formwork 6 days Sun 1/1/23 Fri 6/1/23 226 228 Concreting 1 day Sta 7/1/23 Sta 7/1/23 229 Top Slab at Level +7.20mPD (G.L.1-3) 41 days Sun 8/1/23 Fri 17/2/23 230 Rebar fixing Soffold S. Sun 8/1/23 Sta 1/1/22 Sta 7/1/23 231 Erection of Soffit Formwork 7 days Sun 8/1/23 Sta 1/1/22 Sta 7/1/23 232 Rebar fixing 9 days Wed 18/1/23 Sta 1/1/23 Sta 1/1/23 Sta 1/1/23 233 Concreting Sun 8/1/23 Sta 1/1/23 Sta 1/1/23 Sta 1/1/23 Sta 1/1/23 234 Builder's Work at Level +7.2mPD 2 days Sta 21/1/23 Fri 17/1/23 233 Sta 21/1/23 Sta 21/1/23 Sta 21/1/23 <td>221 222</td> <td>•</td> <td></td> <td></td> <td>-</td>	221 222	•			-
225 4th Layer (3.1mPD to 5.7mPD) 9 days Fri 30/12/22 Sat 7/1/23 226 Scaffold & platform 2 days Fri 30/12/22 Sat 31/12/22 Sat 31/12/22 227 Rebar fixing and Formwork 6 days Sun 1/1/23 Fri 6/1/23 Sat 7/1/23 228 Concreting 1 day Sat 7/1/23 Sat 7/1/23 Sat 7/1/23 230 Removal of Concrete Block between G.L 1-3/D-C) 4 days Sun 8/1/23 Sat 14/1/23 Sat 14/1/23 Sat 7/1/23 231 Erection of Soffit Formwork 7 days Sun 8/1/23 Sat 14/1/23 Sat 28 232 Rebar Fixing 9 days Wed 11/1/23 Thu 19/1/23 Sat 323 233 Concreting 1 day Sat 21/1/23 Fri 17/2/23 Sat 34/1/23 234 Builder's Work at Level +7.2mPD 28 days Sat 21/1/23 Fri 17/2/23 Sat 34/1/23 235 Concrete Guring & Archieve Design Concrete Strength 10 days Sat 21/1/23 Mon 30/1/23 Sat 34/1/23 236 Removal of Formwork/Falsework, Remaining Concrete block & Site 15 days Tue 14/2/23 Sat 34/1/23 Sat 34/1/23	223	Rebar Fixing Formwork	4 days Sun 25/12/2	2 Wed 28/12/22 222	
226 Scaffold & platform 2 days Fri 30/12/2 Sat 31/12/2 Sat 31/12/2 224 227 Rebar fixing and Formwork 6 days Sun 11/23 226 228 Concreting 1 day Sat 71/23 227 229 Top Slab at Level +7.20mPD (G.L.1-3) 41 days Sun 81/123 Pri 17/23 230 Removal of Concrete Block between G.L.1-3/D-C) 4 days Sun 81/123 Sat 14/123 208,228 231 Erection of Soffit Formwork 7 days Sun 81/123 Thu 19/1/23 231SF-1 day 232 Rebar Fixing 9 days Wed 11/1/123 Thu 19/1/23 231SF-3 days 233 Concreting 1 day Fri 20/1/23 Fri 20/1/23 232 244 Builder's Work at Level +7.2mPD 28 days Sat 21/1/23 Fri 17/1/23 /233 235 Concrete Guring & Archieve Design Concrete Strength 10 days Sat 21/1/23 True 31/1/23 233 236 Removal of Formwork/Falsework, Remaining Concrete block & Site 15 days Tue 31/1/23 Tue 14/2/23 235 237 Installation of GRP 20 days Sat 21/1/23 <td>224 225</td> <td></td> <td></td> <td></td> <td>-</td>	224 225				-
228 Concreting 1 day Sat 7/1/23 Sat 7/1/23 227 229 Top Slab at Level +7.20mPD (G.L.1-3) 41 days Sun 8/1/23 Fri 17/2/23 230 Removal of Concrete Block between G.L.1-3/D-C) 4 days Sun 15/1/23 Wed 18/1/23 2315F-1 day 231 Erection of Soffit Formwork 7 days Sun 8/1/23 Sat 14/1/23 208,228 232 Rebar Fixing 9 days Wed 11/1/23 Thu 19/1/23 2315F-1 day 233 Concreting 1 day Fri 20/1/23 Fri 20/1/23 Fri 20/1/23 234 Builder's Work at Level +7.2mPD 28 days Sat 21/1/23 Fri 17/2/23 233 235 Concreting & Archieve Design Concrete Strength 10 days Sat 21/1/23 Mon 30/1/23 233 236 Removal of Formwork/Falsework, Remaining Concrete block & Site (Clearance 15 days Tu 14/2/23 235 237 Installation of GRP 20 days Sat 21/1/23 Thu 9/2/23 233	226	Scaffold & platform	2 days Fri 30/12/2	2 Sat 31/12/22 224	
229 Top Slab at Level +7.20mPD (G.L. 1-3) 41 days Sun 8/1/23 Fri 17/2/23 230 Removal of Concrete Block between G.L. 1-3/D-C) 4 days Sun 15/1/23 Wed 18/1/23 231SF-1 day 231 Erection of Soffit Formwork 7 days Sun 8/1/23 Concret Block between G.L. 1-3/D-C) 4 days Sun 15/1/23 Wed 18/1/23 231SF-1 day 231 Erection of Soffit Formwork 7 days Sun 8/1/23 Thu 19/1/23 208,228 232 Rebar Fixing 9 days Wed 11/1/23 Thu 19/1/23 231SS+3 days 233 Concreting 1 day Fri 20/1/23 Z3232 234 Builder's Work at Level +7.2mPD 28 days Sat 21/1/23 Fri 17/2/23 Z33 235 Concrete Curing & Archieve Design Concrete Strength 10 days Sat 21/1/23 Mon 30/1/23 233 236 Removal of Formwork/Falsework, Remaining Concrete block & Site Clearance 15 days Tue 31/1/23 Tue 4/2/23 233 237 Installation of GRP 20 days Sat 21/1/23 Thu 9/2/23 233 Tue 9/2/23 233	227 228	-			-
231 Erection of Soffit Formwork 7 days Sun 8/1/23 Sat 14/1/23 208,228 232 Rebar Fixing 9 days Wed 11/1/23 Thu 19/1/23 231SS+3 days 233 Concreting 1 day Fri 20/1/23 Fri 20/1/23 2322 234 Builder's Work at Level +7.2mPD 28 days Sat 21/1/23 Fri 17/2/23 233 235 Concrete Curing & Archieve Design Concrete Strength 10 days Sat 21/1/23 Mon 30/1/23 233 236 Removal of Formwork/Falsework, Remaining Concrete block & Site Clearance 15 days Tu a 11/1/23 Tu a 1/2/23 235 237 Installation of GRP 20 days Sat 21/1/23 Thu 9/2/23 233	229	Top Slab at Level +7.20mPD (G.L. 1-3)	41 days Sun 8/1/2	3 Fri 17/2/23	
232 Rebar Fixing 9 days Wed 11/1/23 Thu 19/1/23 231SS + 3 days 233 Concreting 1 day Fri 20/1/23 232 234 Builder's Work at Level +7.2mPD 28 days Sat 21/1/23 Fri 17/2/23 233 235 Concrete Curing & Archieve Design Concrete Strength 10 days Sat 21/1/23 Mon 30/1/23 233 236 Removal of Formwork/Falsework, Remaining Concrete block & Site 15 days Tue 14/2/23 235 237 Installation of GRP 20 days Sat 21/1/23 Thu 9/2/23 233	230 231				
234 Builder's Work at Level +7.2mPD 28 days Sat 21/1/23 Fri 17/2/23 233 235 Concrete Curing & Archieve Design Concrete Strength 10 days Sat 21/1/23 Mon 30/1/23 233 236 Removal of Formwork/Falsework, Remaining Concrete block & Site Clearance 15 days Tue 31/1/23 Tue 14/2/23 235 237 Installation of GRP 20 days Sat 21/1/23 Thu 9/2/23 233	232	-	9 days Wed 11/1/2	3 Thu 19/1/23 231SS+3 days	-
Removal of Formwork/Falsework, Remaining Concrete block & Site 15 days Tue 31/1/23 Tue 14/2/23 235 Clearance 20 days Sat 21/1/23 Thu 9/2/23 233	234	Builder's Work at Level +7.2mPD	28 days Sat 21/1/2	3 Fri 17/2/23 233	
Clearance 20 days Sat 21/1/23 737 Installation of GRP 20 days Sat 21/1/23			,		
		Clearance			
					5 1/3
	235 236 237 238	Concrete Curing & Archieve Design Concrete Strength Removal of Formwork/Falsework, Remaining Concrete block & Site Clearance Installation of GRP	10 days Sat 21/1/2 15 days Tue 31/1/2 20 days Sat 21/1/2	3 Mon 30/1/23 233 3 Tue 14/2/23 235 3 Thu 9/2/23 233	1/3

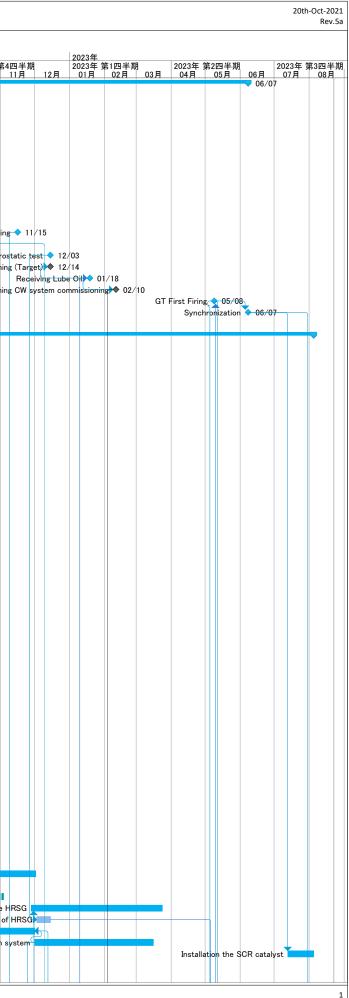
TAIHEI DENGYO KAISHA,LTD.

Construction Schedule of Unit-12

D	タスク名	期間	開始日	終了日	先行タスク															
0						2021年 第2四半 04月 05月	朝	2021年 第3四半			第4四半期			第1四半期		第2四半期	2022年 第3四半期	明 2	022年 第4	
<u> </u>	-	527日	21/10/01 (金)	23/06/07 (水)		04月 05月	06 A	07月 08月	09月 Key Date		ША	ТZЛ	ULA	02月 03月	04 <i>F</i> I	05月 06月	07月 08月	09 A	10月	ш
2		1日	21/10/01 (金)			_		H/O HRSG												
3		1日 1日		21/11/01(月)		-		F		Installation										
5		1日 1日	21/12/15(水) 21/11/15(月)			-		. equipment found		O Condens			2/15							
6		1日	22/02/01 (火)	22/02/01 (火)				. equipment round		GT Exhaus			Assumed)	• 02/01						
7 🛄		1日	22/02/01 (火)								O MSB Ea									
8		1日	22/01/15 (土)	22/01/15 (土)					MSB Fi	ull access (I	Except P/T	T foundat	ion) 🔷 0 ⁻	1/15						
9		1日	22/01/15(土)	22/01/15(土)					H/	O Foundati										
10 11		1日 1日	22/03/10(木) 22/04/15(金)	22/03/10(木) 22/04/15(金)		_					H/O Fo	oundatior		Fransformer 🔷 03/		/15				
12		5日	22/04/15(金) 22/04/15(金)	22/04/15(壶)		-					Deliven	, date of		undation of Powert ins (GT,GEN,ST,GE						
13		1日	22/07/15(金)	22/07/15 (金)		-					Denvery		i owerd a				EN ♦ 07/15			
14	Power Receiving	1日	22/11/15 (火)	22/11/15 (火)														Power	Receiving	,
15 💷		1日	22/09/30(金)	22/09/30 (金)												H/O For	undation of No5 In	take area 🔶	09/30	
16 🔢	-	10日	22/12/03 (土)	22/12/14 (水)	1000 00 0														Hydros	
17 18	Beginning Closed cooling water system flushing (Target) Receiving Lube Oil	1日 1日	22/12/14 (水) 23/01/18 (水)	22/12/14 (水) 23/01/18 (水)	18SS-30日 208SS	_										Begir	nning Closed coolir	ng water syst	em flushin	з (Т г
19	- -	1日	23/01/18(穴) 23/02/10(金)	23/01/18(水) 23/02/10(金)	20033 18SS+20日	-													Beginnin	
20		1日	23/05/08(月)	23/05/08(月)	213	-													Deginini	;0
21		1日	23/06/07 (水)	23/06/07 (<i>7</i> K)	20FS+25日															
22																				
		577日	21/10/01 (金)						HRSG											
24 25		2日 3日	21/10/01 (金)		2SS	_	Make t	he condition for c												
25	-	3日 15日	21/10/01 (金) 21/10/01 (金)	21/10/04 (月) 21/10/18 (月)	24SS 24SS			Center I	line markin	r. II										
27		10日	21/10/05 (火)		2400 26SS+3日			P	Chippin acker setti	TIL II										
28	-	10日		21/10/20 (水)	27SS+4日			Lay down Pipe		9										
29	Short legs setting	9日	21/10/21 (木)	21/10/30 (土)	28				Short legs											
30		3日	21/10/28 (木)		31SF			Prepare for inst	-	r r	A									
31		6日	21/11/01(月)		29			Lifting and ins	-		-									
32 33		35日 35日	21/11/08(月) 21/11/08(月)		31 31	_		Welding Short	-											
34		35日	21/11/08(月)		31	-		Setting and wel	-	Brace guss										
35		17日	21/11/08(月)		31	-		-	-	oor structur	T									
36	Putting pipes on bottom casing	10日	21/11/27 (土)	21/12/08 (水)	35			-		es on bottor		-								
37	HRSG Blow down tank	2日	21/10/27 (水)	21/10/29 (金)	38SF-10日			HR	RSG Blow o	down tank	KL									
38		40日	21/11/10(水)		31FS+2日					orth on HRS										
39		17日		21/12/14 (火)	32SS+15日	_				g on Bottom										
40		2日 4日		21/12/10 (金) <mark>21/12/17 (金)</mark>	79FS+2日 142SS-1日			Unloadii	ng Side ca	sing and To	op Casing #									
42		42日	22/01/01 (±)	22/02/18 (金)	94SS+20日	_			Li	ifting and in	stalling Sid	de casing								
43		40日	22/01/19(水)		42SS+15日					ifting and in Lifting	and install	ling Top o	asing							
44		2日	22/02/03 (木)	22/02/04 (金)	99						Lifting	g and inst	alling SCF	२ 📘 📗						
45		2日	22/03/14(月)	22/03/15 (火)	101FS+10E	3								installing AIG						
46 47	Unloading Side casing and Top Casing #2 Installation of piping, header, support, EXP inside HRSG	1日	22/01/07 (金)	22/01/07 (金) 22/03/11 (金)	96SS-1日 42SS+20日	-				g Side casir	- ·									
47		40日 2日	22/01/25 (火) 22/04/26 (火)	22/03/11(壶)	4235+20日 103	-		Installa	tion of pipi	ing, header,	support, E			l installing HRSG In						
49		55日	22/03/07 (月)	22/05/09(月)	48FF+10日				Sett	ting FL+29n	n floor stru			over hang)						
50	Lifting Down comer piping (after pre-assembling)	8日	22/04/11(月)	22/04/19 (火)	49SS+30日									(after pre-assembli	ng)					
51		10日	22/04/28(木)	22/05/09(月)	49FS-10日							Prepar	e Lifting T	Гube bundle (Aroun	d HRSG)					
52		2日	22/04/15 (金)											ansportation of GEN	- I I					
53 54 III		3日	22/04/28(木)		48 53	-						Prepare		Tube bundle (Stora						
55		3日 3日	22/05/02(月)	22/05/04 (水) 22/05/07 (土)		-								oading Tube bundle Istalling Tube bundl						
56		5日	22/05/10 (火)			-								installing Tube bun						
57		5日	22/05/16(月)		56								-	Unloading Tube bur						
58		3日	22/05/21 (土)	22/05/24 (火)	57									re installing Tupe bi						
59		15日	22/05/25 (水)											and installing Tube I						
60		30日	22/05/21(土)	22/06/28 (火)	56SS+10日							Setting	FL+29m f	floor structure (Abc						
61 62		1日 1日	22/06/02(木)		60SS+10日 59FS+10日	_									-	IP-Drum				
63		1日	22/07/06 (水)	22/07/06 (水)	62FS+10日										-	nd setting LP-Drum				
64		2日	22/08/05 (金)	22/08/06 (土)	105										-	d installing HRSG O				
65	Suspend outside work for transportation of GT & GEN	8日	22/07/13 (水)	<mark>22/07/21 (木)</mark>	186SS-2日								Su	ispend outside worl	-	oortation of GT & G				
66		10日	22/07/07 (木)		63											sting HDR level (HP				
67		15日	22/07/19(火)		66										Adjust	ting HDR level (IP &				
		25日	22/08/19(金)	22/09/16(金)	69	_											rame 7,9 and 8			1
68		10日 100日	22/08/08(月) 22/08/08(月)		64 69SS	-								Satting and		SG roof structure (Including deferrable				
69	Setting roof structure (Including deferrable structure)		22/08/08 (J) 22/08/31 (JK)		70SS+20日	-								Security 1001		ting and setting the				
		5日								11 11					1 4					6
69 70	Lifting and setting the silencer of HRSG	5日 40日	22/09/17(土)		220SS															ų –
69 70 71	Lifting and setting the silencer of HRSG 1250ton shift to lifting work of GT Inlet duct			22/11/02 (水)	220SS 87												Asse	mbly accesso	ry inside ⊦	RS
69 70 71 72 73 74	Lifting and setting the silencer of HRSG 1250ton shift to lifting work of GT Inlet duct Assembly accessory inside HRSG Hydrostatic test of HRSG	40日 100日 10日	22/09/17(土) 22/11/28(月) 22/12/03(土)	22/11/02 (水) 23/03/23 (木) 22/12/14 (水)	87 16SS													Hydrosta	tic test of	
69 70 71 72 73 74 75	Lifting and setting the silencer of HRSG 1250ton shift to lifting work of GT Inlet duct Assembly accessory inside HRSG Hydrostatic test of HRSG Excavation the foundation of UTAC (By Civil)	40日 100日 10日 30日	22/09/17 (土) 22/11/28 (月) 22/12/03 (土) 22/10/27 (木)	22/11/02 (水) 23/03/23 (木) 22/12/14 (水) 22/12/01 (木)	87											Excavati	on the foundation	Hydrosta of UTAC (By	tic test of Civil)	HR
69 70 71 72 73 74 75 76	Lifting and setting the silencer of HRSG 1250ton shift to lifting work of GT Inlet duct Assembly accessory inside HRSG Hydrostatic test of HRSG Excavation the foundation of UTAC (By Civil) Urea to Ammonia conversion system	40日 100日 10日 30日 90日	22/09/17(土) 22/11/28(月) 22/12/03(土) 22/10/27(木) 22/12/01(木)	22/11/02 (水) 23/03/23 (木) 22/12/14 (水) 22/12/01 (木) 23/03/15 (水)	87 16SS 76SF											Excavatio	on the foundation	Hydrosta	tic test of Civil)	HR
69 70 71 72 73 74 75 76 77	Lifting and setting the silencer of HRSG 1250ton shift to lifting work of GT Inlet duct Assembly accessory inside HRSG Hydrostatic test of HRSG Excavation the foundation of UTAC (By Civil) Urea to Ammonia conversion system	40日 100日 10日 30日	22/09/17 (土) 22/11/28 (月) 22/12/03 (土) 22/10/27 (木)	22/11/02 (水) 23/03/23 (木) 22/12/14 (水) 22/12/01 (木) 23/03/15 (水)	87 16SS											Excavati	on the foundation	Hydrosta of UTAC (By	tic test of Civil)	HR
69 70 71 72 73 74 75 76	Lifting and setting the silencer of HRSG 1250ton shift to lifting work of GT Inlet duct Assembly accessory inside HRSG Hydrostatic test of HRSG Excavation the foundation of UTAC (By Civil) Urea to Ammonia conversion system Installation the SCR catalyst	40日 100日 10日 30日 90日	22/09/17(土) 22/11/28(月) 22/12/03(土) 22/10/27(木) 22/12/01(木)	22/11/02 (水) 23/03/23 (木) 22/12/14 (水) 22/12/01 (木) 23/03/15 (水) 23/08/04 (金)	87 16SS 76SF				Acce	embly 1250t	on G/G-					Excavati	on the foundation	Hydrosta of UTAC (By	tic test of Civil)	HR

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

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



TAIHELDENGYO KAISHA LTD

Construction Schedule of Unit-12

ENGY	O KAISHA,LTD.					Construction Schedule of Unit-12	20th-Oct F
1	タスク名	期間	開始日	終了日	先行タスク		
							0000左 笹 0m
Ð						2021年第3四半期 2021年第3四半期 2021年第4四半期 2022年第1四半期 2022年第1四半期 2022年第2四半期 2022年第3四半期 2022年第4回半期 2023年第1四半期 2023年第2四半期 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 02月 04月 05月 06月 07月 08月 09月 10月 11月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 02月 04月 05月 06月 07月 08月 09月 10月 11月 02月 03月 04月 05月 06月 09月 10月 10月 01月 01月 <td>2023年 第3四 06月 07月 0</td>	2023年 第3四 06月 07月 0
	1250tonC/C work for GT inlet duct Disassembly 1250tonC/C	40日 10日		22/11/03 (木) 22/11/15 (火)		1250tonC/C work for GT inlet duct	
	Assembly 400tonC/C	5日		22/04/23 (土)		Assembly 400tonC/C/===	
	Disassembly 400tonC/C	4日		22/06/18 (土)		Disassembly 400tonC/C	
	Lifting and hang Pipes (Left side of HRSG)	80日 90日		22/06/07 (火) 22/11/09 (水)	43 66FS+8日	Lifting and hang Pipes (Left side of HRSG)	
	Fitting Pipes (Inside of HRSG / HP) Fitting Pipes (Inside of HRSG / IP,LP)	90日			67FS+8日	Fitting Pipes (Inside of HRSG / HP)	
	Lifting and hang Pipes (Upper HRSG)	60日		22/10/13 (木)		Lifting and hang Pipes (Upper HR\$G)	
	Fitting and welding Pipes in range of Hydrostatic	100日	22/07/19 (火)	22/11/11 (金)	66	Fitting and welding Pipes in range of Hydrostatic,	
	Fitting and welding Pipes out range of Hydrostatic	120日		23/03/31 (金)		Fitting and welding Pipes out range of Hydrostatic	
	Insulation work for high temp piping	150日	22/10/29(土)	23/04/21 (金)	20FF-14日	Insulation work for high temp piping	
	Preparing preassembling area for side casings	7日	21/11/17 (水)	21/11/25 (木)	79SF	Preparing preassembling area for side casings 🔫	
	Preassembly Side casing (2set)	30日		22/01/12 (水)	40SS	Preassembly Side casing (2set)	
	Preassembly Top casing (LP and IP)	30日		22/01/12 (水)	94SS	Preasembly Ton casing (I P and IP)	
	Installing lugging and attachement to Side casing (2set)			22/01/31(月)	42SS+6日	Installing lugging and attachement to Side casing (2set)	
	Preassembly Top casing (HP) Prepare for preassemble SCR	20日 3日		22/02/22 (火) 22/01/15 (土)	43SS+10日 42SS+10日	Preassembly Top casing (HP)	
	Preassembly SCR	15日		22/02/02 (水)	98	Preasembly SCR	
	Prepare for preassemble AIG	3日	22/02/05 (土)	22/02/08 (火)	42SS+30日	Prepare for preassemble AIG	
	Preassembly AIG	18日	22/02/09 (水)		100	Preassembly AIG	
	Prepare for preassemble HRSG Inlet duct Preassembly HRSG Inlet duct	4日 52日		22/02/23 (水) 22/04/25 (月)		Prepare for preassemble HRSG Inlet duct	
	Prepare for preassembly HRSG Outlet duct	7日		22/04/23 (月) 22/06/18 (土)		Preassembly HRSG Inlet duct	
	Preassembly HRSG Outlet duct	40日		22/08/04 (木)		Preasembly HRSG Outlet duct	
	Prepare for preasembling Frame 7.9 and 8	5日		22/07/12 (火)		Prepare for preasembling Frame 7.9 and 8	
	Preassembling Frame 7.9 and 8	55日	22/07/13 (水)	22/09/14 (水)	106	Preassembling Frame 7.9 and 8	
	HRSG Exhaust duct	148日	22/07/19(日)	23/01/05 (木)			
	Preparation of the foundation	3日			111SF	HRSG Exhaust duct.	
	Chipping and setting packers	15日		22/08/08(月)		Chipping and setting packers	
	Building the structure for HRSG exhaust duct	40日		22/09/22 (木)		Building the structure for HRSG exhaust duct	
	Lifting the exhaust duct	30日		22/10/27 (木)		Lifting the exhaust duct	
	Welding each exhaust duct blocks Insulation work	50日 50日		22/12/13 (火) 23/01/05 (木)	113SS+20E 114SS+20E	Welding each exhaust duct blocks	
		001	22/11/03 ()]()	20/01/00 ()(/)	11400-201		
	Preassembling the exhaust duct	60日	22/08/02 (火)	22/10/10(月)	113SF+15E	Preassembling the exhaust duct	
	Over Head Crane Check the location of installation	85日 1日		22/01/21 (金) 21/11/01 (月)	366		
	Lifting and setting the rail for OHC	30日		21/12/06(月)	120	Check the location of installation Lifting and setting the rail for OHC	
	Prepare for preassembling OHC	5日		21/11/04 (木)	123SF	Prepare for preassembling OHC	
	Unloading OHC material	2日		21/11/06 (土)		Unloading OHC material 🔣	
	Preassembly OHC (Mech & Elec)	25日		21/12/06(月)	125SF	Preassembly OHC (Mech & Elec)	
	Lifting and setting Aux. OHC Garter Lifting and setting Main OHC Garter	2日 2日	21/12/06(月) 21/12/08(水)	21/12/09 (木)	125	Lifting and setting Aux OHC Garter	
	Laying temp cable from L11	30日	21/10/15 (金)			Laying temp cable from L11	
	Installing electrical equipment	15日	21/12/17 (金)	22/01/03 (月)	126FS+6日	Installing electrical equipment	
	Power receiving	18		22/01/10 (月)		Power receiving	
	Commissioning & Load test	10日	22/01/11 (火)	22/01/21 (金)	129	Commissioning & Load test	
	Condenser	306日	21/12/11 (土)	22/12/02 (金)		Condenser	
	Center line marking	2日		21/12/16 (木)	4SS	Center line marking	
	Chipping	6日		21/12/23 (木)		Chipping	
	Setting packer and base plate	4日		21/12/28(火)		Setting temperary rail and SAPI JET for installation and descent	
	Setting temporary rail and SARLIFT for installation cond (Load test for SARLIFT)	e28⊟ 1⊟		22/01/18 (火) 22/01/18 (火)		Setting temporary rail and SARLIFT for installation condenser	
	Assembling the scaffolding around skirt	15日		22/01/12 (7K)	136SS+8日	Assembling the scaffolding around skirt	
	Preparation the lifting tool for the skirt	2日	22/01/19 (水)	22/01/20 (木)		Preparation the lifting tool for the skirt 👗	
	Assembly the Unit carrier	2日		21/12/13(月)		Assembly the Unit carrier	
	Assembly the 750tonA/C Delivery date of condenser(Unloading with 1250ton)	1日 2日		22/01/21 (金) 21/12/16 (木)	144SS-1日	Assembly the 750tonA/G	
	Remove packing material	3日		22/01/21(金)	137	Delivery date of condenser(Unloading with 1250ton) 🔷 Remove packing material	
	Installation Upper skirt	2日		22/01/24 (月)		Installation Upper skirt	
	Installation Lower skirt	2日				Installation Lower skirt	
	Fit up condenser skirt	3日		22/01/29(土)		Fit up condenser skirt	
	Assembling and welding skirt Remove rail for condenser skirt	8日 1日		22/02/08 (火) 22/01/27 (木)		Assembling and welding skirt	
	Installation Condenser shell of lower	18				Remove rail for condenser skirt	
	Installation Condenser shell of upper	1日		22/01/29 (<u></u>)		Installation Condenser shell of upper	
	Disassembly the 750tonA/C	1日	22/01/29 (土)	22/01/29 (土)	150SS		
	Dismantling SARLIFT and temporary rail	15日		22/02/16 (水)		Dismantling SARLIFT and temporary rain	
	Assembling the scaffolding around condenser shell	5日 5日		22/02/11(金)		Assembling the scatfolding around condenser shell	
	Welding Condenser shell (outside / 1 layer) Fit up condenser skirt to condenser shell	5日 3日		22/02/17(木) 22/02/21(月)		Welding Condenser shell (outside / 1 layer)	
	Installation the monorail of South side	20日		22/03/16 (7K)		Installation the monorail of South side	
	Installation the condenser water box of South side Hand over around condenser to civil working	4日 30日	22/03/17(木)	22/03/21 (月) 22/04/25 (月)		Installation the condenser water box of South side	

 NOTE

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TAIHEI DENGYO KAISHA,LTD.

Construction Schedule of Unit-12

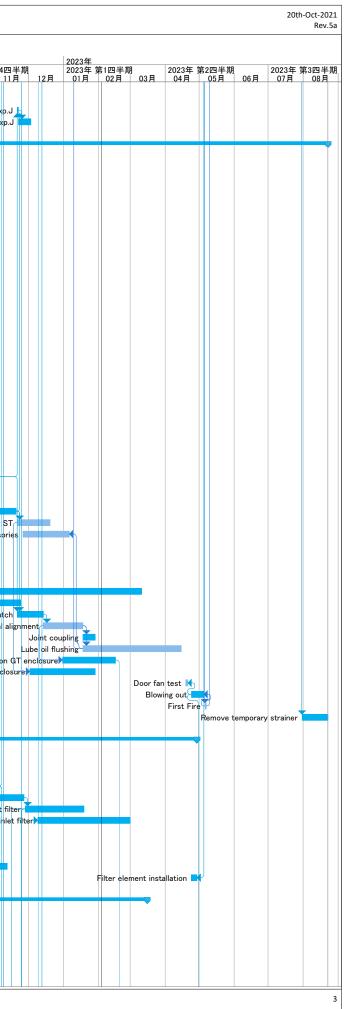
ID	タスク名	期間	開始日	終了日	先行タスク																				
0						2021年 第2四半其 04月 05月				第4四=			2022年 2022年	第1四半	期。	2	022年 貸 04月	第2四半	期	2	022年	第3四半 08月	明	2022年	
159 🔟	Condenser tube cleaning unit	4日	22/04/26 (火)	22/04/29 (金)	158	04月 05月	06月 07月 08月	09月 10	U.A	113		12月		02月 ondenser					06	Я	0/A	08 月	09月		11
160	Installation the CW pipe	45日	22/04/26 (火)		158									Instal	lation th	e CW	pipe 🎽								
161 🔢	Assembling Exp.J	1日	22/11/21(月)		193,196																			Assembling	
162 163	Welding Exp.J	10日	22/11/22 (火)	22/12/02 (金)	161																			Weldin	ng Exp.J
164	GT/ST/Generator	504日	22/01/12 (*)	23/08/22 (火)						GT		enerato	r -												
165	Setting template for anchor bolts	40日	22/01/12 (水)	22/02/28(月)	166SF	_		Settin	ng tem			hor bolt													
166	Concreteing work by PDC/PY	40日	22/02/28(月)	22/04/15 (金)	167SF									PDC/P											
167	Remove templates	14日	22/04/15 (金)		11SS									Rei	nove te	•									
168	Center line marking	5日	22/05/02(月)	22/05/06(金)	167	_									Cente		narking								
169 170	Chipping Packer setting	10日 15日	22/05/07(土) 22/05/19(木)	22/05/18 (水) 22/06/04 (土)	168 169												Chipping acker se								
170	Setting the base plate	7日	22/06/06(月)	22/06/13(月)	170												icker se ing the l	-	ate						
172	Setting the bearing case	7日	22/06/14 (火)		171												ting the			•					
173	Lay down pipes under GT	1日	22/06/22 (水)	22/06/22 (水)	172											La	y down i	pipes u	nder G	t 🖌					
174	Lay down pipes under ST	3日	22/06/23 (木)	22/06/25 (土)	173												ay down								
175	IP/LP-MSV Lifting and setting	5日	22/06/18(土)		173FF+1日										IP,		ISV Lifti	-	-						
176 177	Lifting and hanging EB01	1日 1日	22/06/13(月) 22/06/07(小)	22/06/14 (火)	178SF-2日 178SF-7日												ng and h								
178	Unloading the Gantry system for GT Setting the Gantry system for GT	21日	22/06/07 (火) 22/06/16 (木)	22/06/08(水) 22/07/11(月)	1783F=7 L									Unio			try syste Gantry s								
179	Load test for Gantry system	2日	22/07/11 (月)	22/07/13 (7k)	186SF-2日	_									Octuni	-	Load te	-							
180 🏢	Delivery date of Powertrains	1日	22/04/15 (金)	22/04/15 (金)									Deliv	ery date	of Pow	ertrain	s 🔷 04	/15		5					
181	GEN Transformer O/B	18	22/04/15 (金)		180SS									GEN Tra				/15							
182	ST Lower casing Unloaded and store (with OHC)	1日	22/04/16(土)	22/04/16(土)	181	_				ST	Lower	casing l		d and st											
183 184	Generator Unloaded and store GT Unloaded and store	1日 3日	22/04/18(月) 22/04/19(火)	22/04/18(月) 22/04/21(木)	182 183	_							Gene	rator Un											
185	GT & GEN stored at site	63日	22/04/19 (火) 22/05/05 (木)	22/04/21(木) 22/07/18(月)	188SF	-									loaded a		ore d at site								
186	GT O/B (with Gantry)	1日	22/07/15 (金)		13SS									, ai		510101		GT O/E	3 (with	Gantry	0	/15			
187	Setting the Gantry crane for GEN	1日	22/07/16 (土)	22/07/16 (土)	186											Set	tting the		1						
188	GEN O/B (with Gantry)	1日	22/07/18 (月)		187													GEN O/				17/18			
189	ST Lower casing O/B (with OHC)	18	22/07/20(水)		188FS+1日												T Lower	-							
190 191	Dismantling the Gantry system Lifting and setting ST	15日 31日	22/07/19(火) 22/08/11(木)	22/08/04 (木) 22/09/15 (木)	188 190FS+5日												Disman	itling th			em setting	eT			
192	ST Rotor	18	22/09/09 (金)	22/09/09 (金)	191SS+25日	3													Lituri	ig and :	serring	ST Ro	tor		
193	Final alignment for ST	30日	22/09/10(土)		192															Fir	nal aligr	ment for			
194	ST Upper Casing	1日	22/10/15 (土)	22/10/15 (土)	193																	ST	Upper C	Casing 🥇	
195	HP-MSV lifting and setting	5日	22/09/10(土)	22/09/15(木)	192																	g and set			
196 197	Adjust the gap between Rotor and casing	30日 25日	22/10/17(月)	22/11/19(土)	194												}		Adj	ust the	e gap b	etween R	otor and		
197	Grouting ST Installing accessories	25日 35日	22/11/21(月) 22/11/26(土)	22/12/19(月) 23/01/06(金)	196 208SF-10日	4																	In	Grout Istalling acc	uting ST
199	Installing IPB	30日	22/09/09 (金)	22/10/13 (木)	261SS	-															I	nstalling I		istalling acc	Jessone
200	First alignment of GT and GEN	50日	22/07/27 (水)	22/09/22 (木)	188FS+7日												First	t alignm	ent of (GT and					
201	Grouting GEN and GT	25日	22/09/23 (金)	22/10/21 (金)	200																	ting GEN			ן
202	GT enclosure (Lower)	20日	22/10/05 (水)	22/10/27 (木)	201SS+10日	3																iT enclos			
203 204	Installting pipes and accessories to GT Assembly slip ring, lead box and accessories to GEN	120日 28日	22/10/22 (土) 22/10/22 (土)	23/03/10 (金) 22/11/23 (水)	201 201	_												Accor				es and ac x and acc			
205	Assembly 3S clutch	20日	22/11/21(月)		193,196													Assen	noiy sii	y ring, i				ssembly 3S	S clutch
206	Final alignment	30日	22/12/14 (水)		205																				Final ali
207	Joint coupling	10日	23/01/18 (水)	23/01/28 (土)	206																				
208	Lube oil flushing	75日	23/01/18 (水)	23/04/14 (金)	206																				
209 210	Installation GT enclosure	40日 50日	22/12/31 (土)	23/02/15 (水) 23/01/28 (土)	206SS+15日 197SS+10日																				allation G
210	Installation ST enclosure Door fan test	2日	22/12/02(金) 23/04/19(水)		19755+10日 212SF-2日																		Inst	tallation ST	enclos
212	Blowing out	10日	23/04/24 (月)		213SF-1日	_																			
213	First Fire	1日	23/05/06 (土)		74FS+122 E																				
214	Remove temporary strainer	20日	23/07/31 (月)	23/08/22 (火)	21FS+45日																				
215		074 5	00/00/15/	00/04/00/11																					
216 217	GT Air inlet	271日 2日	22/06/17(金) 22/09/05(月)	23/04/29 (土) 22/09/07 (水)	218SF	-												GT Air	r inlet						
217	Center line marking Setting the base plate	2日 10日	22/09/05(月) 22/09/07(水)	22/09/07(床) 22/09/19(月)	2185F 220SF	-														C C	enter l ting th	ine markir e base pla			
219 1	Preassembly the Air inlet duct	80日	<u>22/06/17(金)</u>												Pr	eassen	nbly the	Air inle	t duct	Jet	ang un	- nase his			
220	Lifting and installation the Air inlet duct (Vertical)	40日	22/09/19 (月)													[n the /	Air inle	t duct (Ve	:rtical)		
221	Welding Air inlet duct (Vertical)	50日	22/09/30 (金)	22/11/26 (土)		3														Weldi	ng Air i	nlet duct	(Vertical	at)	
222	Lifting and installation the Air inlet filter	45日	22/11/28(月)	23/01/18 (水)																	Li	fting and	nstallati	ion the Air i	inlet filt
223 224	Welding Air inlet filter Lifting and assembly the Air inlet manifold	70日 4日	22/12/09(金) 22/09/30(金)	23/02/28 (火) 22/10/05 (水)	222SS+10日 202SF													1.0	ein~			A 14 141	+	Welding A	Air inlet
224	Lifting and assembly the Air inlet manifold Lifting and installation the Air inlet duct (Horizontal)	4日 8日	22/09/30(畫) 22/10/05(水)			-											1.4					le Air inle nlet duct i			
226	Automatic roller shutter	2日	22/10/14 (金)	22/10/15 (±)														₈ anu				Automatic		· · · · · · · · · · · · · · · · · · ·	
227	Welding Air inlet duct (Horizontal)	25日	22/10/14 (金)		225															We		r inlet du			
228 💷	Filter element installation	5日	23/04/24 (月)	23/04/29 (土)	20SF-7日																				
229		404 5 -	04/44/45/15	00/00/15/15																					
230 231	Auxiliary Equipment (O/B) 1&3 around Power Train & North east of MSB	421日? 224日		23/03/15 (水) 22/10/03 (月)				liary Equipment 3 around Power			rth	+	B												
231	Chipping and packer setting	224日 10日		22/10/03(月)	8SS	-	184					t of MS (er setti					$\parallel \mid \mid \uparrow$								
233	Seal oil unit	2日	22/06/01 (水)	22/06/03 (金)	234SF	-			2,10	, ₅ al							Se	al oil un	it 🔥						
234	H2 cooler	2日	22/06/03 (金)	22/06/06 (月)	235SF													H2 cool							
	Platform under the GEN	5日	22/06/06(月)	22/06/11(土)	178SF-4日					1						Platfo	rm unde	r the G							
235						- 1											11 4.145								
235 236 237	Temp hanging Main Steam Piping with scaffolding Sampling system	25日 2日	22/02/11(金)	22/03/11 (金) 22/02/03 (木)	240			Temp hangin	ng Mai	iin Stea		ing with Sampling													

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TAIHEI DENGYO KAISHA,LTD.

Construction Schedule of Unit-12

TAIHEI DENG	YO KAISHA,LTD.					Construction Schedule of Unit-12 20th-Oct-2021 Rev.5a
ID	タスク名	期間	開始日	終了日	先行タスク	hev.ba
		741111		1 I I	10111111	
						2022年 2022年 2022年 第2四半期 2023年 2023年 2023年 第2四半期 2023年 第2四半期 2023年 第3四半期 2022年 第3四半期 2023年 第4四半期 2023年 第2四半期 2023年 第3四半期 2023年 第4回半期 2023年 第2四半期 2023年 第3回半期 2023年 第4回半期 2023年 第1回半期 2023年 第3回半期 2023年 第4回半期 2023年 第1回半期 2023年 第3回半期
000	1 taka atl dasta conta	2日	<u></u>	22/02/05 (土)	007	04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月
238 239	Light oil drain unit GT purge air compressor	2日	22/02/04 (壶) 22/02/07 (月)			Light oil drain unit log GT purge air compressor
240	GT purge are reservoir	2日		22/02/10 (木)		GT purge are reservoir
241	Light oil flow divider unit & platform	2日	22/09/23 (金)	22/09/24 (土)	202SS-10E	
242	GT Purge air unit	2日		22/09/24 (土)		
243 244	Fuel gas unit	2日	22/10/01 (土)	22/10/03 (月)	241FS+5日	Fuel gas unit
244	2 MSB Inside North-West	233日?	22/01/15 (土)	22/10/13 (木)		2 MSB Inside North-West
246	Temporary floor above ST Blowdown tank	15日	22/01/15(土)		8SS	Temporary floor above ST Blowdown tank
247	Chipping and packer setting	10日		22/02/07 (月)		Chipping and packer setting
248 249	Preparation hauling equipment Condenser water box	4日 3日	22/02/11(金)	22/02/15(火) 22/02/18(金)		Preparation hauling equipment
249	Closed cooling water pump	2日		22/02/18(壶)		Condenser water box
251	Condenser vacuum pump	2日		22/02/23 (水)		Conderser vacuum pump
252	Dismantling hauling equipment	2日		22/02/25 (金)		Dismantling hauling equipment
253	ST blow down tank	1日		22/02/24 (木)		ST blow down tank t
254 255	GT casing cooling fan GT compressor blade washing device	1日 1日	22/02/25(金) 22/02/26(十)	22/02/25 (金) 22/02/26 (土)		GT casing cooling fan h GT compressor blade washing device h
256	Building MSB North structure	40日		22/05/31 (火)		Building MSB North structure
257	ST Blow down tank structure	20日	22/04/30 (土)	22/05/23 (月)	253FS+55E	ST Blow down tank structure
258	Pre-assembly structure for Air inlet duct access	30日		22/06/07 (火)		Pre-assembly structure for Air inlet duct access
259 260	Building structure for Air inlet duct access Closed cooling water stand pipe	2日 10日		22/06/08(水) 22/06/20(月)		Building structure for Air inlet duct access in Closed cooling water stand pipe
261	Installing IPB	30日		22/10/13(木)		
262	ST Blowdown pit sump pump	2日		22/02/25 (金)		ST Blowdown pit sump pump
263	A MOD In the On the Way	010-	00/00/11 / 4	00/10/00/1-		
264 265	6 MSB Inside South-West Chipping and packer setting	216日 10日		22/10/20(木) 22/03/10(木)	255	6 MSB inside South-West Chipping and packer setting
266	Condensate extraction pump	2日	22/03/11(金)			Condensate extraction pump
267	CEP access stair	1日	22/03/11 (金)	22/03/11 (金)	266SS	CEP access stair
268	Trip valve unit	1日	22/03/12(土)			Trip valve unit
269 III 270 🍦	Control oil unit Building MSB South structure	1日 25日		22/03/12(土) 22/03/11(金)		Control loil unit
270	Gland condenser and fan	1日		22/03/01 (火)		
272	Plant and Instrument air receiver	2日		22/10/18 (火)		Plant and Instrument air receiver
273 💷	Plant air compressor	2日		22/10/18 (火)		Plant air compressor
274	Instrument air dryer	2日 2日		22/10/20(木)		Instrument air dryer 🖡
275 276	CEP pit sump pump Condenser hotwell pit sump pump	2日		22/03/15(火) 22/03/17(木)		CEP pit sump pump Condenser hotwell pit sump pump
277					2.0	
278	7 Lube oil room	306日		23/02/24 (金)		
279 280	Chipping and packer setting	10日 1日		22/03/16(水)		Chipping and packer setting
280	Disassemble structure Lube oil reservoir	1日		22/03/17(木) 22/03/18(金)	279	Disassemble structure financial and the structure financia
282	Assemble structure	1日	22/03/18 (金)	22/03/18 (金)	281SS	Assemble structure
283	Open floor	15日		22/04/02 (土)		
284 285	Lube oil filter with structure Lube oil cooler	2日 1日	$22/03/19(\pm)$	22/03/21(月) 22/03/19(土)	283SS+2日	
285	JOP for GEN	2日		22/03/23 (水)		Lube oil cooler
287	JOP for ST	2日		22/03/23 (水)		JOP for ST
288	Lube oil purifier unit	2日		22/03/23 (水)		Lube oil purifier unit
289 290	Lube oil transfer pump Lube oil accumulator	2日 1日		22/03/23 (水) 22/03/22 (水)		Lube oil transfer pump
290	Lifting piping into Lube oil room	20日		22/03/22 (火) 22/04/14 (木)		Lube oil accumulator
292	TCA filter	1日		22/09/10(土)		TCA filter
293	TCA filter support	8日	23/02/16 (木)	23/02/24 (金)	209	TCA filter support
294 295	9 East of MSB	163日	22/02/01 (44)	22/08/09 (火)		9 East of MSB
295	Chipping and packer setting	15日		22/08/09(火)	7SS	9 East of MSB Chipping and packer setting
297 💷	Light Oil main pump unit	2日	22/02/18 (金)	22/02/19 (土)	296	Light Oll main pump unit 🛴
298	GT light oil last chance filter	2日		22/02/22 (火)		GT light oil last chance filter
299 III 300	GT light oil drain tank unit GT fuel gas flow meter	2日 2日		22/02/24(木) 22/02/26(土)		GT light oil drain tank unit 🔓 GT fuel gas flow meter 🛙
301	Pipe rack from L11 to L12 (except around EB02)	60日		22/02/20(土)		Pipe rack from L11 to L12 (except around EB02)
302	Temp hanging Main Steam Piping	15日	22/04/23 (土)	22/05/10 (火)	301	Temp hanging Main Steam Piping
303	Building structure for EB02	6日		22/04/06 (水)		Building structure for EB02
304 III 305	Preassembly EB02 Lifting and installation EB02	20日 2日	22/03/15 (火) 22/04/07 (木)	22/04/07(木) 22/04/08(金)		Preassembly EB02 Lifting and installation EB02
306	Sound proof around EB02	20日	22/04/07(穴)			Sound proof around EB02
307	Pipe rack from L11 to L12 (Above EB02)	30日	22/05/17 (火)	22/06/20 (月)	306	Pipe rack from L11 to L12 (Above EB02)
308	GT enclosure ventilation fan	2日		22/08/06 (±)		GT enclosure ventilation fan
309 III 310	Oil mist separator unit Oily drain pit sump pump	2日 2日		22/08/09 (火) 22/02/12 (土)		Oil mist separator unit Î Oily drain pit sump pump ¥
311	Chemical drain pit sump pump	2日		22/02/12(土)		Chemical drain pit sump pump
312						
313	10 North of HRSG	343日		22/12/14 (水)	0150.55	10 North of HRSG
314 315	KURE pipe rack (North on HRSG) Chipping and packer setting	40日 15日		21/12/25(土) 21/12/02(木)		KURE pipe rack (North on HRSG)
316	Lower Fuel gas heater	2日		21/12/02 (木)		Lower Fuel gas heater
NOTE			`			3.Considered the affection of KURE's schedule belows;
NOTE						S. CONSIDERED THE ANECTION OF NORE 5 SCHEDULE DELOWS,

 NOTE

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

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

Appendix J

20th-Oct-2021

	NGYO KAISHA,LTD.					Construction Schedule of Unit-12
	タスク名	期間	開始日	終了日	先行タスク	
A						2022年 2021年第2四半期 00日 2021年第3四半期 00日 2021年第4四半期 01日 2022年第1四半期 01日 2022年第2四半期 01日 2022年第3四半期 01日 2022年第4四半期 01日 2023年第1四半期 01日 2023年第2四半期 01日 2023年第2四半期 01日 2023年第2四半期 01日 2023年第2四半期 01日 2023年第2回半期 01日 2023年第3回半期 01日 2023年第3回半期 01日 2023年第3回半期 01日 2023年第1回半期 01日 2023年第3回半期 01日 2023年第4回半期 01日 2023年第1回半期 01日 2023年第3回半期 01日 2023年第3回半期 01日 2023年第3回半期 01日 2023年第1回半期 01日 2023年第3回半期 01日 2011 2011 2011 2011 2011 2011 2011
317	Support structure for FGH	5日		21/12/10 (金		04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月
318 🛄		2日		21/12/13 (月		Upper Fuel gas Heater
319 320 💷	GT water injection system Feed water pump	2日 2日		21/12/15 (水 21/12/17 (金		GT water injection system K Feed water pump
321	Chemical dosing system	2日		21/12/20 (月		Chemical dosing system
322	FWP sun shade	50日	21/12/27 (月)	22/02/22 (火) 321FS+5日	FWP sun shader
323	FGH Maintenance platform	15日		22/02/16 (水		
324 📰 325	Reserved feed water tank HRSG Topping up pump	2日 1日		22/02/01 (火 22/02/02 (水		Reserved feed water tank here and her
326	LP-ECO Recirculation pump	2日		22/02/02 (永		
327	Dry air system for HRSG	2日		22/07/08 (金		Dry air system for HR\$G
328 🏢		2日		22/01/17 (月		HRSC blowdown pit sump pump
329	HRSG Washing water sump pump	2日	22/12/13 (火)	22/12/14 (水) 75FS+10日	HRSG Washing water sump pump 1
330 331	12 CCW cooler area	59日	22/02/26 (+)) 22/05/05 (木	3	12 CCW cooler area
332 💷		10日	22/02/26 (±)			Chipping and packer setting
333 💷		4日	22/03/10 (木)	22/03/14 (月) 332	Sea water booster pump
334 💷		4日		22/03/14 (月		CW vent pump and seal water booster 豊
335 📰 336 📰		4日 25日		22/03/14 (月 22/05/05 (木		CCW cooler in the cooler sun shade
337	Sea water sump pump	4日		22/03/19 (±		Sea water sump pump
338						
339		2日		22/11/05 (土		
340 341	Dismantle the temporary slope at south side of HRSG CO2 Fire fighting	30日 50日		22/12/01 (木 23/03/15 (水		Dismantle the temporary slope at south side of HRSG
342 1	UTAC system	90日		23/03/15 ()K		CO2 Fire fighting
343	Silencer at MSB roof	3日		22/12/21 (水		
344 💷	LPS to LMX LO transfer pump for U-12 (if necessary)	2日	22/10/01 (土)	22/10/03 (月)	LPS to LMX LO transfer pump for U-12 (if necessary)
345						
346 347	Intake No5 area Marking center line	163日? 10日	22/10/01 (土) 22/10/01 (土)			Intake No5 áréa
348	Chipping and packer setting	20日		22/10/13 (木		Chipping and packer setting
349	Setting the baseplate	10日		22/11/17 (木		Setting the baseplate
350	Grouting	20日		22/12/10 (±		Grouting
351	Circulating water pump	20日		23/01/02 (月		
352 353	Circulating water pump outlet piping Auxiliary circulation water pump	25日 5日		23/01/31 (火 22/12/16 (金		Circulating water pump outlet piping
354	Electro chlorination plant	60日	22/12/12 (升)			
355	Cathodic protection	10日		23/01/25 (7k) 354	
356	Screen system	15日		22/11/22 (火		Screen system
357 358	Screen wash water pump CW system commissioning (Target)	2日 50日		22/12/19 (月 23/04/08 (土		Screen wash water pump
359	Gw system commissioning (Target)	<u> 50 Ц</u>	23/02/10 (亚)	23/04/08 (1	/ 1933	CW system commissioning (Target)
360	New Gantry crane for CW pump	85日	23/04/10(月)) 23/07/17 (月)	New Gantry crane for CW pump
361 💷		45日		23/05/31 (水		Assembling New gantry crane
362 363	Test operate for New gantry crane	40日	23/06/01 (木)	23/07/17 (月) 361	Test operate for New gantry crane
364	11 Tranceformer area	317日	22/03/11 (金)) 23/03/15 (7	0	11 Tranceformer area
365	Preparation work in the area	5日		22/03/16 (水		Preparation work in the area
366	Setting the channel base for Station	25日		22/04/08 (金		Setting the channel base for Station
367	Setting the channel base for Unit TX and others Txs Station transformer	25日		22/05/02 (月		
368 369	Assembly Station Tx	2日 50日		22/04/11 (月 22/06/08 (水		Station transformer Assembly Station Tx
370	Unit transformer	2日		22/05/04 (水		Unit transformer
371	Assembly Unit Tx	50日	22/05/23 (月)	22/07/19 (火) 369SS+35E	Assembly Unit Tx
372	SFC transformer	2日		22/05/04 (水		SFC transformer
373 374	Excitation transformer Assembly the accessories for small TXs	2日 7日		22/05/04 (水 22/07/09 (土		Excitation transformer
374	Preparation for Generator transformer	30日		22/01/09(工		Assembly the accessories for small LASP
376	Generator transformer O/B	5日	22/04/15 (金)	22/04/20 (水) 181SS	Generator transformer O/B
377	Assembly the accessories for GEN TXs	70日		22/07/11 (月		Assembly the accessories for GEN TXs
378 379	Assembly the support for Bus duct(Gen, Unit) Lifting Bus duct for Tx (Gen, Unit)	20日 60日		22/08/02 (火 22/09/21 (水		Assembly the support for Bus duct (Gen, Unit)
379	Filling 275kV cable box with oil (St Tx & GEN Tx)	50日		22/09/21()水 22/09/13(火		
381	Power receiving	1日		22/11/15 (火		Power receiving
382 💷	Building Sun Shade by civil	90日	22/12/01 (木)	23/03/15 (水)	Building Sun Shade by sivil
383	Flashels 0 Instances	0405	00/01/10/10	00 /00 /00 /1	•	
384 385	Electric & Instrument Panels	349日 180日) 23/02/28(火) 22/08/29(月		Electric & Instrument
386 🛄		103日		22/05/31(火		Carry in panels to the electrical room
387 🔢	Carry in panels to the HRSG electrical room	25日	22/05/02 (月)	22/05/30 (月)	Carry in panels to the HRSG electrical room
388 🛄		25日		22/08/29 (月		Carry in panels to the CWP electrical room
389	Cable tray	313日) 23/01/17 (火		
390 💷 391 📰		80日 26日		22/04/20 (水 22/04/30 (土		in Electrical room-
392 🛄	· · · · · · · · · · · · · · · · · · ·	130日		22/04/30(工		in MSB
		180日	22/05/02 (月)	22/11/26 (±)	around -RSG
393 🔢				00 (04 (47 (1)	`	
393 📰 394 📰 395 📰		80日 130日	22/10/17(月)	23/01/17(火		under exhaust duct and in stack

 NOTE

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

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

	(O KAISHA,LTD.					Construction Schedule of Unit-12	20th-Oct-2 Re
	タスク名	期間	開始日	終了日	先行タスク		
						2022年 2022年 2022年第1回半期 2022年第1回半期 2022年第1回半期 2022年第2回半期 2022年第3回半期 2022年第4回半期 2023年第1回半期 2023年第2回半期	2023年 第3四当
396	Cabling	313日	22/03/01 (北)	23/02/28 (火)		04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月 06月 07月 08月 09月 10月 11月 12月 01月 02月 03月 04月 05月	
397	in Electrical room	120日		22/07/18(月)	390SS+36E	Cabling Cabling I I I I I I I I I I I I I I I I I I I	
398	in MSB	200日		23/02/18 (土)	392SS+94E		
399 🔢	MSB to HRSG	200日	22/07/01 (金)		392SS+94E		
400	around HRSG	120日		23/02/28 (火) 23/02/11 (土)	393SS+140		
401 402	around Intake No5 Instrument	130日 283日	22/09/14(水) 22/04/01(余)	23/02/11(土) 23/02/24 (金)	395SS+50E	Instrument Instrument	
403	Install Support	184日	22/04/01(金)	22/11/01 (火)		Install Support	
404	Piping work	220日	22/06/01 (水)	23/02/11 (土)		Fiping work	
405 💷	Inside GT & ST	115日		23/02/11 (土)	404SS	Inside GT & ST	
406	Adjust each measurement	205日	22/07/01 (金)	23/02/24 (金)		Adjust each measurement	
407 408	Piping	359日	22/03/01 (水)	23/04/24 (月)		Piping	
409	Main Piping	221日		22/11/24 (木)		Main Piping	
410	Around HRSG	100日		22/11/11 (金)	66	Around HRSG	
411 💷	North side of MSB	150日		22/11/22 (火)		North size of MSB	
412 🔢	South side of MSB (around gland condenser)	150日		22/09/02(金)		South side of M\$B (around gland condenser)	
413 III 414	Lead piping BOP for lube oil and cooling	60日 250日		22/11/24 (木) 22/12/16 (金)	195	BOP for lube oil and cooling	
415	North side of MSB (around CCW)	250日	22/03/01 (火)			North side of MSB (around CCW)	
416 💷	South side of MSB (around Lube oil reservoir)	230日		22/12/14 (水)	269FS+7日		
417	Others BOP	200日		22/12/12 (月)		Others BOP	
418	Others BOP	200日		22/12/12(月)		Others BOP	
419 III 420	Assembly the blowing out piping	50日	23/02/24(金)	23/04/24 (月)	21255	Assembly the blowing out piping	
	Crane	459日	21/10/01 (金)	23/03/20 (月)		Crane	
422	Assembly 1250C/C	10日	21/11/25 (木)			Assembly 1250C/C	
423	Operate 1250tonC/C for TOHC	8日		21/12/14 (火)		Operate 1250tonC/C for TOHC	
424	Operate 1250tonC/C for HRSG	189日		22/08/06(土)	42SS-2日		
425 426	Operate 1250tonC/C for GT Air inlet Operate 1250tonC/C for HRSG roof	40日 35日	22/09/19(月) 22/08/08(月)	22/11/03 (木) 22/09/16 (金)		Operate 1250tonC/C for GT Air inlet	
420	Dismantling 1250tonC/C	10日		22/03/10(亚)		Dismantling 1250tonC/C	
428	Assembly 400tonC/C	5日		22/04/23 (土)		Assembly 400tonC (C)	
429	Operate 400tonC/C	44日	22/04/25(月)			Operate 400ton C/C	
430	Dismantling 400tonC/C	4日				Dismanting 400tonC/C 📢	
431 432	Assembly 750tonA/C for Condenser Operate 750tonA/C for Condenser	1日 14日	22/01/21(金)	22/01/21 (金) 22/02/05 (土)		Assembly 750tonA/C for Condenser	
432	Dismantling 750tonA/C for Condenser	18		22/02/03 (土) 22/01/29 (土)		Operate 750tonA/C for Condenser	
434	250ton A/C (HRSG and HRSG exhaust)	391日	21/10/01 (金)			250ton A/C (HRSG and HRSG exhaust)	
435 💷	220tonA/C (Unloading & CWP)	380日	21/12/01 (水)			220tonA/C (Unloading & CWP)	
436	220tonA/C (GT Inlet duct)	60日			222SS-5日		
437 III 438	120tonA/C (Unloading & UTAC)	380日	22/01/01 (土)	23/03/20(月)		120tonA/C (Unloading & UTAC)	
	Equipment for heavy lifting	202日	21/12/13 (月)	22/08/04 (木)		Equipment for heavy lifting	
440	SARLIFT	53日	21/12/17 (金)	22/02/16 (水)		SARLIFT	
441	Assembly the rail for SARLIFT	20日		22/01/08 (土)		Assembly the rail for SARLIFT	
442 443	Assembly the SARLIFT proper Dismantling the SARLIFT	18日 15日	22/01/10(月)	22/01/29 (土) 22/02/16 (水)		Assembly the SARLIFT proper	
443	Gantry system	43 E		22/02/18(八)	15255	Dismantling the SARLIFT	
445	Assembly the Gantry for powertrain	21日	22/06/16 (木)	22/07/09 (±)	178SS	Assembly the Cantry for powertrain	
446	Disassembly the Gantry	15日	22/07/19 (火)	22/08/04 (木)	190SS	Disassembly the Gantry	
447	Unit carrier	189日		22/07/20 (水)		Unit carrier	
448 449	For Condenser Preparation for transportation the Condenser	5日 2日		21/12/17 (金) 21/12/15 (水)	450SF	For Condenser	
449	Transportation the Condenser	2日				Preparation for transportation the Condenser	
451	Disassembling Unit carrier	1日		21/12/17 (金)		Disassembling Unit carrier	
452	For Tube bundle #1	6日	22/04/29 (金)	22/05/05 (木)		For Tube bundle #1	
453	Assembling Unit carrier for Tube Bundle	2日		22/05/02(月)		Assembling Unit carrier for Tube Bundle	
454 455	Transportation the Tube Bundle part1	3日 1日	22/05/02(月)			Transportation the Tube Bundle part	
455	Disassembling Unit carrier For Tube bundle #2	8日	22/05/03 (本) 22/05/13 (金)	22/05/05 (木) 22/05/21 (土)	404	Disassembling Unit carrier I For Tube bundle #2	
457	Assembling Unit carrier for Tube Bundle	2日			458SF	Assembling Unit carrier for Tube Bundle	
458	Transportation the Tube Bundle part2	5日		22/05/20 (金)		Transportation the Tube Bundle part2	
459	Disassembling Unit carrier	1日		22/05/21 (土)	458	Disassembling Unit carrier	
460 461	For Unloading Powertrains Assembling Unit carrier for Power Train	8日 2日	22/04/13 (水) 22/04/13 (水)	22/04/21(木) 22/04/15(金)	463SF-1日	For Unloading Powertrains	
461	Transportation the Transformer	2日				Assembling Unit carrier for Power Train	
463	Transportation the ST lower casing	1日		22/04/16(土)		Transportation the ST lower casing	
464	Transportation the Generator for storing	1日	22/04/18 (月)	22/04/18(月)	183SS	Transportation the Generator for storing	
465	Transportation the Gas Turbine for storing	1日				Transportation the Gas Turbine for storing	
466 467	Disassembling the Unit carrier	2日			465	Disassembling the Unit carrier	
467	For Installation of GT and GEN Assembling Unit carrier for Power Train	7日 2日	22/07/13(水)	22/07/20 (水) 22/07/15 (金)	469SF	For Installation of GT and GEN	
469	Transportation the Gas Turbine for storing	1日		22/07/15(金)		Transportation the Gas Turbine for storing	
470	Transportation the Generator for storing	1日		22/07/18(月)		Transportation the Generator for storing	
	Transportation the ST lower casing	1日	22/07/20 (水)	22/07/20 (水)	189SS	Transportation the ST lower casing	
471 472	Disassembling the Unit carrier	2日		22/07/20 (水)		Disassembling the Unit carrier	

 NOTE

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

 2. The east area on the MSB is assumed to be handovered before B-Feb-2022 according to the above key date changed.
 3.Considered the affection of KURE's schedule belows; i) Because of delaying the side casing,installation Inlet duct is postponed. ii) Because of delivery 12 TBs in one time, no enough area for pre-ass'y Outlet duct and GT Inlet duct on schedule.

Monthly Waste Flow Table for January 2023

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 & 2023

Image: Problem Sorting of the problem Washe of the problem of the related in time related in tin related in tin related in tin related in time relate	MM.YYYY		Ac	tual Quanti	ties of Inert	C&D Materia	Is Generated	Monthly		Act	ual Quantitie	s of Non-ine	rt C&D Mate	erials Gene	rated Mont	hly
Disposed In Public Pail Disposed Soring Fill Disposed Pail Concrete or Contract Projects Concrete Contract Contract Result on the Projects Disposed Public Fill Metals Soring Fail Paper / Low Pail Paper / Contract Disposed Pail Metals (um volta) Paper / Cardbarding Disposed (um volta) Metals (um volta) Paper / Cardbarding Metals (um volta) Metals (um etals volta)		Exc	avated Mate	erials		Non	-excavated Ma	aterials								
Dec 2020 0.00		in Public Fill	Sorting Facilities	Reused in the Contract / Other Projects)	Concrete or Construction Waste Collected by Recycled Company	Contract	Projects	Public Fill	Sorting Facilities	bar / metal strip) ⁽¹⁾	(aluminum can) ⁽¹⁾	cardboard packaging ⁽¹⁾	(1) & (4)	waste (wasted lubricant oil/oil container)	waste (wasted lubricant oil/oil container)	Other, e.g. general refuse
Jan 2021 0.00 0.00 2102.16 0.00		· •,	· •,	· •			С	· •,				· •,		. ,	,	(in '000kg)
Feb 2021 0.00 10883.97 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 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> <td></td> <td></td> <td></td> <td>0.00</td>							0.00					0.00				0.00
Mar 2021 0.00 0.00 948.21 0.00 0.00 0.00 0.00 7.69 0.00																0.00
Apr 2021 0.00 0.00 3205.15 0.00 0.00 0.00 0.00 28.88 0.00																0.00
May 2021 0.00 0.00 6267.49 0.00 0.00 0.00 0.00 34.68 0.00																2.61
Jur 2021 0.00 0.00 6555.38 0.00 0.00 0.00 0.00 26.87 0.00																14.45
Jul 2021 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10.9 Aug 2021 0.00																0.00
Aug 2021 0.00 0.00 0.00 0.00 0.00 0.00 1.455 0.00 0.00 0.00 0.00 3.4 Sep 2021 0.00																25.03
Sep 2021 0.00																10.97
Oct 2021 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1747 0.00																3.49
Nov 2021 0.00																49.15
Dec 2021 0.00																62.08
Jan 2022 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.6.93 0.00 0.00 0.00 0.00 42.7 Feb 2022 0.00																34.17
Feb 2022 0.00																52.18
Mar 2022 0.00																42.73
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 5.51 0.00 0.00 0.00 0.00 0.00 5.51 0.00 0.00 0.00 0.00 0.00 5.51 0.00 0.00 0.00 0.00 5.51 0.00 0.00 0.00 0.00 5.51 0.00																8.62
May 2022 0.00 0.00 0.00 0.00 0.00 0.00 0.00 15.36 0.00 0.00 0.00 0.00 38.6 Jul 2022 0.00 0.00 6645.22 0.00 0.00 0.00 0.00 5.70 0.00 0.00 0.00 0.00 0.00 0.00 37.2 Jul 2022 0.00 0.00 4710.98 0.00 0.00 0.00 0.00 6.58 11.55 0.00 <td></td> <td>25.70</td>																25.70
Jun 2022 0.00 0.00 6645.22 0.00 0.00 0.00 5.70 0.00 0.00 0.00 0.00 37.3 Jul 2022 0.00 0.00 4710.38 0.00 0.00 0.00 6.58 11.55 0.00 0.00 0.00 0.00 2.52 Aug 2022 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.52 Sep 2022 0.00 <td></td> <td>52.83</td>																52.83
Jul 2022 0.00 0.00 4710.98 0.00 0.00 0.00 6.58 11.55 0.00 0.00 0.00 25.2 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 0.00 0.00 0.00 25.2 Sep 2022 0.00																38.60
Aug 2022 0.00																37.38
Sep 2022 0.00 48.5 Nov 2022 0.00 0.00 4930.52 0.00																25.22
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 0.00 0.00 0.00 0.00 0.00 0.00 44.7 Nov 2022 0.00 0.00 4930.52 0.00 0.00 0.00 0.00 6.67 0.00 0.00 0.00 12.7 Dec 2022 0.00 0.00 0.00 0.00 0.00 0.00 6.67 0.00 0.00 0.00 6.21 Jan 2023 0.00 0.00 0.00 0.00 0.00 0.00 10.57 0.00 0.00 0.00 8.8																21.74
Nov 2022 0.00 0.00 4930.52 0.00 0.00 0.00 0.00 6.67 0.00 0.00 0.00 12.1 Dec 2022 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.67 0.00 0.00 0.00 12.1 Dec 2022 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 0.00 0.00 6.23 Jan 2023 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 8.8																48.57
Dec 2022 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 0.00 0.00 6.23 Jan 2023 0.00																44.71
Jan 2023 0.00 0.00 0.00 0.00 0.00 0.00 10.57 0.00 0.00 0.00 8.8																12.15
																62.32
	Jan 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.57	0.00	0.000	0.00	0.00	0.00	8.89
1 10131 1 0.00 1 0.00 1 80467.07 1 0.00 1 0.00 1 0.00 1 17.79 1 294.94 1 0.00 1 0.25 1 0.00 1 1.00 1 0.70 1 683.	Total	0.00	0.00	80467.07	0.00	0.00	0.00	0.00	17.79	294.94	0.00	0.25	0.00	1.00	0.70	683.59

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							
80484.86 tonnes	295.19 tonnes	683.59 tonnes	0.70 tonnes							

(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) 10570 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.

Monthly Waste Flow Table for January 2023

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2020, 2021, 2022 & 2023

MM.YYYY		Act	ual Quanti	ties of Inert (C&D Materia	ls Generated	Monthly		Actual Quantities of Non-inert C&D Materials Generated Monthly						
	Exca	avated Mate	erials		Non-	excavated Ma	aterials								
	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	15076.84	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	29151.94	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
Nov 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	31.69
Dec 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.29	0.00	0.000	0.00	0.00	0.00	24.62
Jan 2023	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	39.90
Total	0.00	0.00	44228.78	0.00	0.00	0.00	0.00	34.31	11.50	0.00	0.00	0.00	0.60	0.42	560.46

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									
44263.09 tonnes	11.50 tonnes	560.46 tonnes	0.42 tonnes									

- (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.

Monthly Waste Flow Table for January 2023

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, 2023

MM.YYYY	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of Non-inert C&D Materials Generated Monthly					
	Excavated Materials			Non-excavated Materials										
	Disposed in Public Fill	Disposed in Sorting Facilities	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
Nov 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	17.83
Dec 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	14.58
Jan 2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.11
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	007.50
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	207.53

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	207.53 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.