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 2017

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/C

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

Report Title	Lamma Power Station Extension – Unit L10 Monthly EM&A Report (January 2017)			
Date	13 February 2017			
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#### **EXECUTIVE SUMMARY**

This is the 82<sup>nd</sup> 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 2017.

The reclamation and submarine pipeline works were completed with the first gas-fired combined cycle unit (viz. Unit L9) commissioned in October 2006, working currently on base load operation. To cope with the scheduled retirement of the existing units at Lamma Power Station, the second gas-fired combined cycle unit (viz. Unit L10) is planned for commercial operation in early 2020 and the associated construction work commenced in January 2016.

In September 2016, the Government approved HK Electric to construct the third combined cycle gas-fired generating unit (L11) to implement the 2020 Fuel Mix Target. L11 is planned for commercial operation in 2022 and the associated construction work commenced in November 2016.

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**

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

Item	Construction Activities
275kV Switching Station	Bored pile construction work
Unit L10 Civil and Building	Main Station Building (excavation and concrete breaking of pile head), Site Office Building and No.4 Demin. Plant (formwork, steel fixing and concreting), and trending works
Unit L11 Piling	Bored pile construction work

#### **Environmental Monitoring Works**

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

#### Air Quality

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

Noise

Construction work for Lamma Extension was carried out during the restricted hours including evening-time, holidays and night-time under valid Construction Noise Permit. No exceedance of Action and Limit levels for noise arising from the construction of Lamma Extension was recorded in the month.

#### Site Environmental Audit

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

Description	Permit No.	Valid Period		<b>Issued To</b>	Date of
		From	То		Issuance
Varied Environmental	EP-071/2000/C	18/05/05	-	HEC	18/05/05
Permit					
Construction Noise	GW-RS1026-16	11/10/16	10/04/17	Contractor	07/10/16
Permit					
Construction Noise	PP-RS0019-16	26/07/16	19/01/17	Contractor	25/07/16
Permit					
Construction Noise	GW-RS1299-16	26/12/16	25/06/17	Contractor	22/12/16
Permit					
Construction Noise	GW-RS1318-16	26/12/16	26/06/17	Contractor	23/12/16
Permit					
WPCO Discharge	WT00023765-2016	07/03/16	31/03/21	Contractor	09/03/16
Licence	(Cancelled on				
	16/1/17)				
WPCO Discharge	WT00025747-2016	05/10/16	31/10/21	Contractor	06/10/16
Licence					
Registration of	WPN5113-912-	21/01/16	-	Contractor	21/01/16
Chemical Waste	S3180-19				
Producer					
Registration of	WPN5213-912-	22/02/16	-	Contractor	22/02/16
Chemical Waste	P2781-22				
Producer					
Waste Disposal	Account No.:	03/02/16	-	Contractor	03/02/16
Billing Account	7024247				
Waste Disposal	Account No.:	06/10/16	-	Contractor	06/12/16
Billing Account	7026035				

Environmental Licensing and Permitting

# **Implementation Status of Environmental Mitigation Measures**

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

#### **Environmental Complaints**

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

# **Future Key Issues**

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

#### 275kV Switching Station

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

#### Unit L10 Civil and Building Works

- to continue executing the preventive measures for avoiding noise exceedance and keep monitoring/ reviewing the performance;
- to monitor and review the sufficiency of the dust suppression measures provided and increase the resources accordingly if necessary.

#### Unit L11 Piling Works

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

#### **Concluding Remarks**

The environmental performance of the project was generally satisfactory.

# 1. INTRODUCTION

### 1.1 Background

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

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

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

This report summarizes the environmental monitoring and audit work for the Project for the month of January 2017.

# 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 activity for 275kV Switching Station was bored pile construction work. Construction activities for Unit L10 civil and building works were carried out for Main Station Building (excavation and concrete breaking of pile head), for Site Office Building and No.4 Demin. Plant (formwork, steel fixing and concreting) and for trenching works. Construction activity for Unit L11 piling was bored pile construction work. Layout plan for construction site is shown in Figure 1.1.

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

# Table 1.1 Construction Activities and Their Corresponding Environmental Mitigation Measures

Item	Construction Activities	Environmental Mitigation Measures	
275kV S	Switching Station		
1.	Bored pile construction	<ul> <li>Air</li> <li>Dust suppression measures implemented in the main haul road.</li> <li>Using ULSD for PMEs.</li> </ul>	
		<ul> <li>Water         <ul> <li>All wastewater will be pumped to the sedimentation ponds for desilting process. After that, wastewater will be re-used for construction. activities or pumped for storage. Discharging to communal storm drain is the last priority.</li> </ul> </li> </ul>	
		<ul> <li>Noise</li> <li>General noise mitigation measures employed at all work sites throughout the construction phase.</li> </ul>	
		<ul> <li>Waste Management</li> <li>Waste Management Plan submitted and implemented.</li> </ul>	

Item	Construction Activities	Environmental Mitigation Measures			
Unit L1	Unit L10 Civil and Building Works				
2.	Main Station Building (Excavation and concrete breaking of pile head)	<ul> <li>Air</li> <li>All regulated machine attached with valid exception/approval NRMM labels.</li> <li>Water truck was used for water spraying of the haul road.</li> <li>Compaction was conducted for soil platform</li> </ul>			
		<ul> <li>Noise         <ul> <li>Cylindrical screening was used for noise mitigation measures during drilling.</li> </ul> </li> <li>Wastewater         <ul> <li>Sump pit and sedimentation tanks were set up for</li> </ul> </li> </ul>			
		wastewater reuse <b>Waste Management</b> – Excavated soil was temporary stored for backfilling.			
3.	Site Office Building and No. 4 Demin. Plant (Formwork, Steel Fixing and Concreting)	<ul> <li>Air <ul> <li>Excavated slope covered.</li> </ul> </li> <li>Waste Management <ul> <li>Scrape metal will be recycled.</li> <li>Timber will be reused as much as possible</li> </ul> </li> </ul>			
4.	Trenching Works	<ul> <li>Air         <ul> <li>Excavated slope covered.</li> </ul> </li> <li>Waste Management         <ul> <li>Excavated soil was temporary stored for backfilling.</li> </ul> </li> </ul>			
Unit L1	1 Piling Works	1			

Item	Construction Activities	Environmental Mitigation Measures
5.	Bored pile construction	<ul> <li>Air</li> <li>Dust suppression measures implemented in the main haul road.</li> <li>Using ULSD for PMEs.</li> <li>Cover dusty stockpile with tarpaulin and water spraying.</li> </ul>
		<ul> <li>Water         <ul> <li>All wastewater will be pumped to the sedimentation ponds for desilting process. After that, wastewater will be re-used for construction. activities or pumped for storage.</li> </ul> </li> </ul>
		<ul> <li>Noise</li> <li>General noise mitigation measures employed at all work sites throughout the construction phase.</li> </ul>
		<ul> <li>Waste Management</li> <li>Waste Management Plan submitted and implemented.</li> </ul>

# 1.4 Summary of EM&A Requirements

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

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

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

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

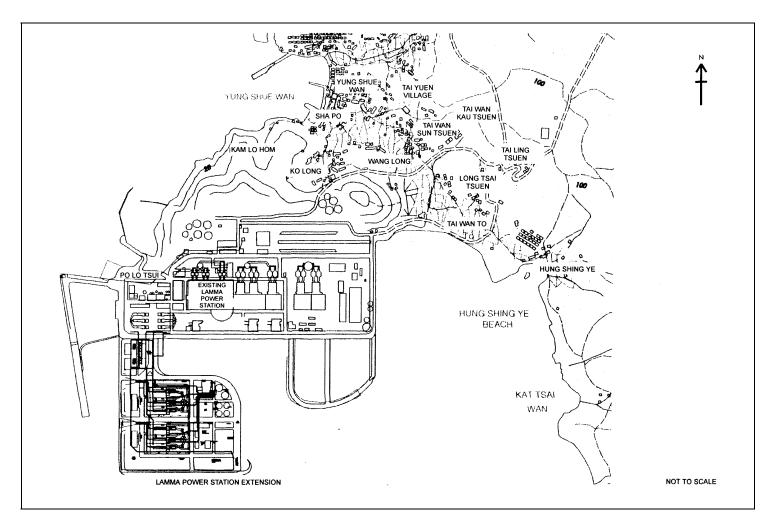


Figure 1.1 Layout of Work Site

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# 2. AIR QUALITY

# 2.1 Monitoring Requirements

1-hour and 24-hour TSP monitoring at agreed frequencies were conducted to monitor air quality. The impact monitoring data were checked against the Action/Limit Levels as determined in the Baseline Monitoring Report (Construction Phase). Appendix B shows the established Action/Limit Levels for Air Quality.

# 2.2 Monitoring Locations

Three dust monitoring locations were selected for 1-hour TSP sampling (AM1, AM2 & AM3) while four monitoring locations were selected for 24-hour TSP sampling (AM1, AM2, AM3 and AM4). Table 2.1 tabulates the monitoring stations. The locations of the monitoring stations are shown in Figure 2.1.

Location I.D.	Description
AM1	Reservoir
AM2	East Gate
AM3	Ash Lagoon
AM4	Tai Yuen Village

 Table 2.1
 Air Quality Monitoring Locations

# 2.3 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was performed using the High Volume Air Samplers (HVAS), TEOM continuous dust monitor and the MINIVOL Portable Sampler at AM1&2, AM3 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.

Equipment	Model and Make	
24-hour sampling:		
HVAS Sampler	Model TE5170x	
	Tisch Environmental Inc.	
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
A N/ 1	1-hour TSP	1	3 hourly samples every 6 days
AM1	24-hour TSP	24	Once every 6 days
4342	1-hour TSP	1	3 hourly samples every 6 days
AM2	24-hour TSP	24	Once every 6 days
AM3	1-hour TSP	1	3 hourly samples every 6 days
AMS	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

HVAS and 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 flow record chart for the previous sampling was checked to see if there was any abnormality.
- 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;
- A new flow record chart was loaded into the flow recorder;
- The programmable timer was set for the next 24 hrs sampling period;
- The post-sampling filter papers were equilibrated at room temperature and relative humidity < 50% for at least 24 hours before weighing.

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

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

# Maintenance & Calibration

- The monitoring equipment and their accessories are maintained in good working conditions.
- Monitoring equipment is calibrated at monthly intervals. Calibration details are shown in Appendix F.

# 2.6 Results and Observations

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

1-hour TSP

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

# 24-hour TSP

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

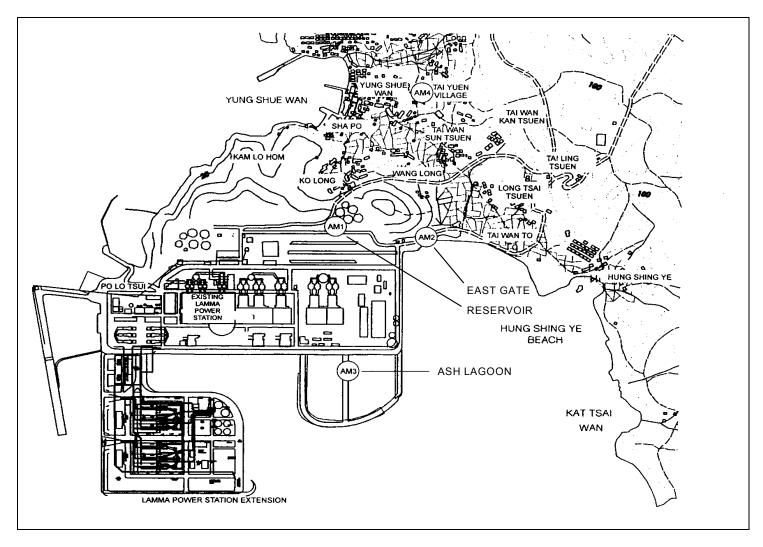


Figure 2.1 Location of Air Quality Monitoring Stations

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# 3. NOISE

# 3.1 Monitoring Requirements

Continuous noise alarm monitoring at Ash Lagoon/Ching Lam were carried out to calculate the noise contributed by the construction activities at the two critical NSR's, viz. Long Tsai Tsuen/Hung Shing Ye and the school within the village of Tai Wan San Tsuen. The impact monitoring data for construction noise were checked against the limit levels specified in the EM&A Manual. With the availability of the construction noise permits, impact monitoring for the construction work during the restricted hours was also carried out. Section 4 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.

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:

Location	Time Period	Frequency	Parameter
	Daytime: 0700-1900 hrs on normal weekdays	Daytime: 30 minutes	30-min L <sub>Aeq</sub>
Ash Lagoon	5		
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 <sub>Aeq</sub>
	Night-time: 2300-0700 hrs of next day	Night-time: 5 minutes	5-min $L_{Aeq}$

Table 3.2	Noise Monitoring Duration and Parameter
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#### **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 have been verified by the manufacturer or accredited laboratory. Equipment for continuous noise monitoring was calibrated at least once per month.

# 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.

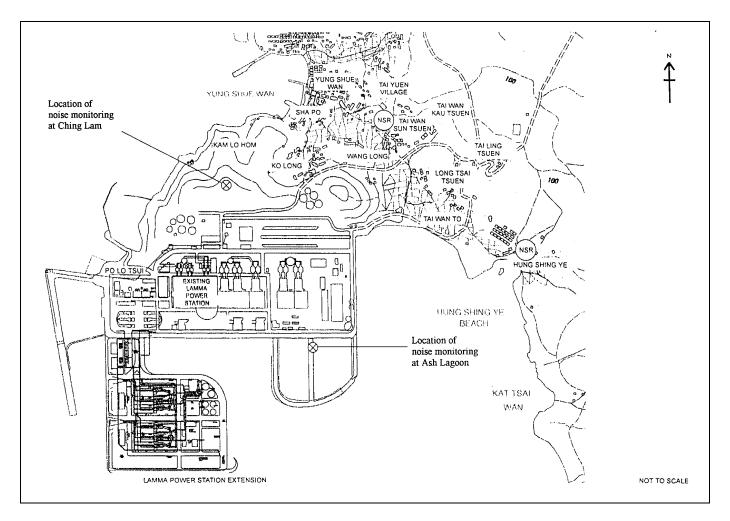


Figure 3.1 Location of Noise Monitoring Stations

# 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, 3 and 4 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)	01/01/17- 31/01/17	0	0			
2	Ambient TSP (1-hour)	01/01/17- 31/01/17	0	0			
Noise	·	·					
1	Noise level at the critical NSR's predicted by the noise alarm monitoring system	01/01/17- 31/01/17	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.

No inert C&D material nor non-inert C&D material were disposed of in January 2017 as shown in Table 4.2.

	No	als	
Total Inert C&D Waste Materials	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
6758.76 Tonnes	0 Tonnes	3.16 Tonnes	440 Litres

Table 1 2	Estimated Amounts	of Wooto	in Ionuomy 2017
1 auto 4.2	Estimated Amounts	or waste	III January 2017

The monthly waste flow tables prepared by the contractors are attached in Appendix K.

# 4.4 Site Environmental Audit

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

# 4.5 Status of Environmental Licensing and Permitting

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

Description	Permit No.	Valid Period		Permit No. Valid Period		Highlights	Status
_		From	То				
Varied Environmental Permit	EP-071/2000/C	18/05/05	-	The whole construction work site	Valid		
Construction Noise Permit	GW-RS1026-16	11/10/16	10/04/17	Foundation works for Unit L10 (275kV Switching Station). Operation of PME during restricted hours.	Valid		
Construction Noise Permit	PP-RS0019-16	26/07/16	19/01/17	Percussive piling for Unit L10 piling foundation	Valid		
Construction Noise Permit	GW-RS1299-16	26/12/16	25/06/17	Civil and Building Works for Unit L10. Operation of PME during restricted hours.	Valid		
Construction Noise Permit	GW-RS1318-16	26/12/16	26/06/17	Foundation work for Unit L11. Operation of PME during restricted hours.	Valid		

Description	Permit No.	Valid Period		Highlights	Status
-		From	То		
WPCO	WT00023765-	07/03/16	31/03/21	Foundation works	Cancelled on
Discharge	2016			for Unit L10	16/1/17
Licence					
WPCO	WT00025747-	05/10/16	31/10/21	The construction	Valid
Discharge	2016			site of 275kV	
Licence*				Switching Station	
Registration	WPN5113-912-	21/01/16	-	Foundation works	Valid
of Chemical	S3180-19			for Unit L10	
Waste					
Producer					
Registration	WPN5213-912-	22/02/16	-	Civil and Building	Valid
of Chemical	P2781-22			Works for Unit L10	
Waste					
Producer					
Waste	Account No.:	03/02/16	-	Foundation works	Valid
Disposal	7024247			for Unit L10	
Billing					
Account					
Waste	Account No.:	06/10/16	-	Civil and Building	Valid
Disposal	7026035			Works for Unit L10	
Billing					
Account					

Note: \* - Water quality monitoring was carried out in January 2017 and the result would be reported under a separate cover by the contractor.

#### 4.6 Implementation Status of Environmental Mitigation Measures

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

# 4.7 Implementation Status of Event/Action Plans

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

#### 4.8 Implementation Status of Environmental Complaint Handling Procedures

In January 2017, no complaint against the construction activities was received.

Table 4.4Environmental Complaints Received in January 2017

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:

#### 275kV Switching Station

#### Noise Impact

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

#### Air Impact

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

#### Water Impact

• To recycle and reuse wastewater from bored pipe construction work and to ensure compliance in accordance with the WPCO discharge licence already obtained.

#### Unit L10 Civil and Building Works

#### Noise Impact

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

#### Air Impact

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

#### Unit L11 Piling Works

#### Noise Impact

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

#### Air Impact

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

#### Water Impact

• To recycle and reuse wastewater from bored pipe construction work.

# 5.2 Monitoring Schedules for the Next 3 Months

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

# 5.3 Construction Program for the Next 3 Months

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

# 6. CONCLUSION

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

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

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

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

The environmental performance of the Project was generally satisfactory.

# Appendix A Organization Chart

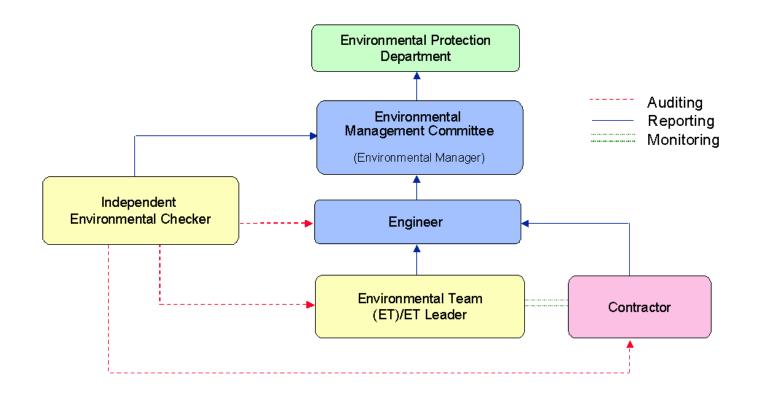


Figure A.1 Organisation of EM&A Programme at Construction Phase

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

# B.1. Air

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

	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
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	<ul> <li>a. 75 dB(A) in L<sub>Aeq,30 min</sub> (07:00-19:00 hrs on normal weekdays) (Note 1)</li> <li>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<sub>Aeq,5 min</sub></li> <li>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<sub>Aeq,5 min</sub></li> </ul>					
<ul> <li>Note:</li> <li>1. For educational institution, the limit level shall be 70 dB(A), reduced to 65 dB(A) during examination periods.</li> </ul>							

# Appendix C Environmental Monitoring Schedule

Table C.1Monitoring schedule for 24hr and 1hr TSP monitoring for Lamma<br/>Extension Construction (January 2017 to April 2017)

24hr TSP Monitoring	1hr TSP Monitoring
04/Jan/2017	04/Jan/2017 1500hr to 1800hr
10/Jan/2017	10/Jan/2017 1500hr to 1800hr
16/Jan/2017	16/Jan/2017 1500hr to 1800hr
22/Jan/2017	22/Jan/2017 1500hr to 1800hr
28/Jan/2017	28/Jan/2017 1500hr to 1800hr
03/Feb/2017	03/Feb/2017 1500hr to 1800hr
09/Feb/2017	09/Feb/2017 1500hr to 1800hr
15/Feb/2017	15/Feb/2017 1500hr to 1800hr
21/Feb/2017	21/Feb/2017 1500hr to 1800hr
27/Feb/2017	27/Feb/2017 1500hr to 1800hr
05/Mar/2017	05/Mar/2017 1500hr to 1800hr
11/Mar/2017	11/Mar/2017 1500hr to 1800hr
17/Mar/2017	17/Mar/2017 1500hr to 1800hr
23/Mar/2017	23/Mar/2017 1500hr to 1800hr
29/Mar/2017	29/Mar/2017 1500hr to 1800hr
04/Apr/2017	04/Apr/2017 1500hr to 1800hr
10/Apr/2017	10/Apr/2017 1500hr to 1800hr
16/Apr/2017	16/Apr/2017 1500hr to 1800hr
22/Apr/2017	22/Apr/2017 1500hr to 1800hr
28/Apr/2017	28/Apr/2017 1500hr to 1800hr

# APPENDIX D AIR QUALITY MONITORING RESULTS

# Site: Lamma Power Station Extension

Month: January 2017

# 24 hour TSP Measurement:-

	TSP concentration ( $\mu g/m^3$ )					ather Informations of Kong Observer	
Date	Reservoir	East Gate	Ash Lagoon	Tai Yuen Village	Mean Wind Speed	Prevailing Wind Dir.	Mean R.H.
	(AM1)	(AM2)	(AM3)	(AM4)	(km/hr)	(*)	(%)
04/01/2017	49	41	39	56	27.7	70	80
10/01/2017	67	56	51	51	36.6	70	80
16/01/2017	41	40	34	40	35.5	70	80
22/01/2017	75	87	67	43	18.8	20	58
28/01/2017	46	(1)	44	17	30.4	60	79
01/02/2017	-	49	-	-	(2)	(2)	(2)

Note:

(1) Breakdown of High Volume Air Sampler. A make up 24-hr TSP sampling was conducted on 1/2/2017.

(2) Weather information from Hong Kong Observatory not available.

# 1 hour TSP Measurement:-

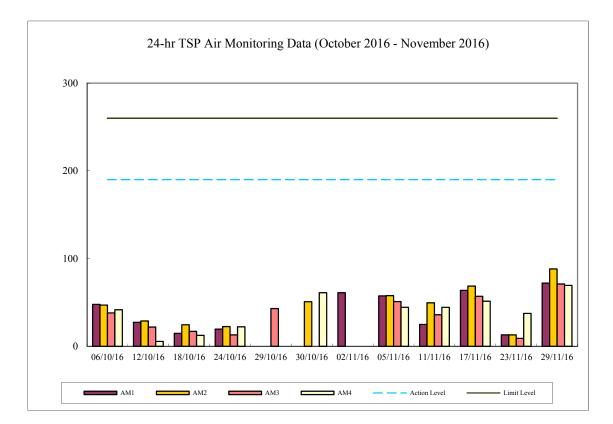
		TSP concentration ( $\mu g/m^3$ )					
Date	Time	Reservoir (AM1)	East Gate (AM2)	Ash Lagoon (AM3)			
	15:00 - 15:59	34	38	42			
04/01/2017	16:00 - 16:59	43	37	40			
	17:00 - 17:59	30	39	37			
	15:00 - 15:59	42	47	44			
10/01/2017	16:00 - 16:59	51	55	53			
	17:00 - 17:59	55	58	57			
	15:00 - 15:59	27	30	27			
16/01/2017	16:00 - 16:59	24	31	8			
	17:00 - 17:59	28	39	38			
	15:00 - 15:59	48	63	39			
22/01/2017	16:00 - 16:59	30	54	47			
	17:00 - 17:59	71	71	65			
	15:00 - 15:59	46	41	38			
28/01/2017	16:00 - 16:59	37	41	37			
	17:00 - 17:59	44	42	41			

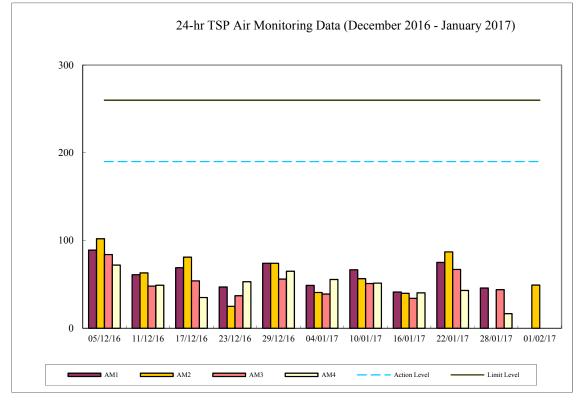
	1-hr TSP	24-hr TSP
	$(\mu g/m^3)$	$(\mu g/m^3)$
Action Level	340	190
Limit Level	500	260

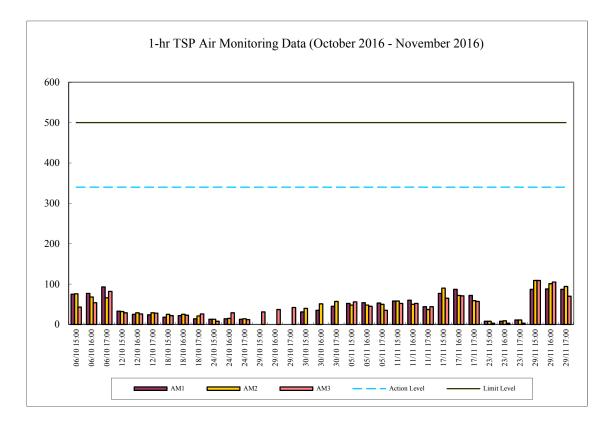
Calibration: Calibration details are shown in appendix F.

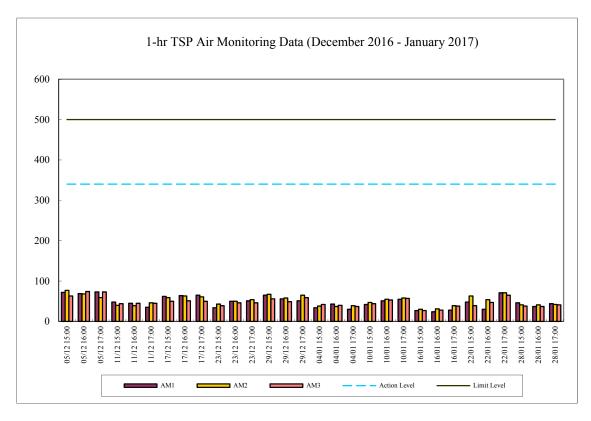
Equipment used:

Location	1-hr TSP	24-hr TSP		
Reservoir and East Gate	TEOM High Volume Air Samp			
Ash Lagoon	TEOM	TEOM		
Tai Yuen Village	-	MINIVOL Portable Sampler		









# Appendix E Continuous Noise Monitoring Results for January 2017

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 Used:	B&K 2250 sound level meters and B&K 4231 sound
	level calibrator
Last Calibration Date:	B&K 2250 sound level meters - 09/11/2015 (Ching Lam)
	19/08/2016 (Ash Lagoon)
	B&K 4231 calibrator - 07/04/2016

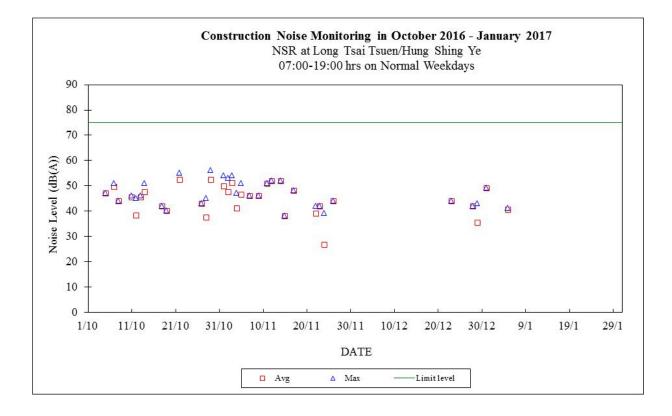
Date	Time	Calcula Noise Level a NSR at Tsai Tsuen/H Shing N (dB(A)) Max	at Long Hung Ze	Limit Noise Level (dB(A))	Calcula Noise Level a NSR at school within Wan Sar Tsuen (dB(A)) Max	at the Tai	Limit Noise Level (dB(A))
01/01/2017	07:00-23:00	34	30	60	29	28	60
01/01/2017	23:00-07:00	24	20	45	20	16	45
02/01/2017	07:00-23:00	54	50	60			60
02/01/2017	23:00-07:00	42	35	45	38	31	45
03/01/2017	07:00-19:00			75			70
03/01/2017	19:00-23:00	37	31	60	30	26	60
03/01/2017	23:00-07:00	36	30	45	32	26	45
04/01/2017	07:00-19:00			75			70
04/01/2017	19:00-23:00			60			60
04/01/2017	23:00-07:00	36	30	45	31	26	45
05/01/2017	07:00-19:00	41	41	75	37	36	65
05/01/2017	19:00-23:00	30	28	60	26	24	60
05/01/2017	23:00-07:00	38	32	45	34	27	45
06/01/2017	07:00-19:00			75			65
06/01/2017	19:00-23:00			60			60
06/01/2017	23:00-07:00			45	33	25	45
07/01/2017	07:00-19:00			75			75
07/01/2017	19:00-23:00			60			60
07/01/2017	23:00-07:00			45	27	22	45
08/01/2017	07:00-23:00			60	44	42	60
08/01/2017	23:00-07:00			45	25	20	45
09/01/2017	07:00-19:00			75			65
09/01/2017	19:00-23:00			60	37	30	60
09/01/2017	23:00-07:00			45	32	23	45
10/01/2017	07:00-19:00			75			65
10/01/2017	19:00-23:00			60			60

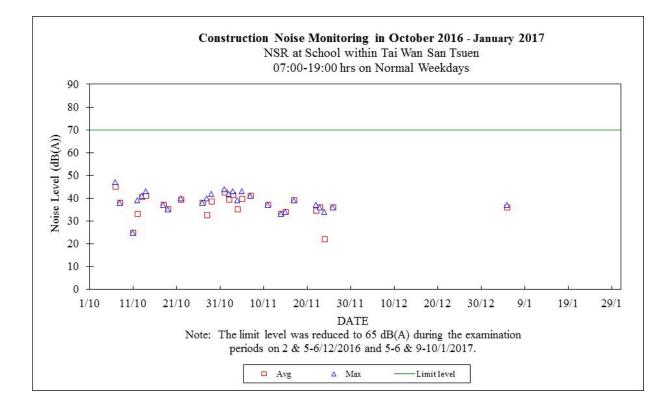
10/01/2017	23:00-07:00	 	45	31	26	45
11/01/2017	07:00-19:00	 	75			70
11/01/2017	19:00-23:00	 	60			60
11/01/2017	23:00-07:00	 	45	28	23	45
12/01/2017	07:00-19:00	 	75			70
12/01/2017	19:00-23:00	 	60	32	30	60
12/01/2017	23:00-07:00	 	45	35	29	45
13/01/2017	07:00-19:00	 	75			70
13/01/2017	19:00-23:00	 	60	32	24	60
13/01/2017	23:00-07:00	 	45	34	29	45
14/01/2017	07:00-19:00	 	75			70
14/01/2017	19:00-23:00	 	60	25	20	60
14/01/2017	23:00-07:00	 	45	42	31	45
15/01/2017	07:00-23:00	 	60	41	30	60
15/01/2017	23:00-07:00	 	45	29	25	45
16/01/2017	07:00-19:00	 	75			70
16/01/2017	19:00-23:00	 	60	33	26	60
16/01/2017	23:00-07:00		45	31	23	45
17/01/2017	07:00-19:00		75			70
17/01/2017	19:00-23:00	 	60			60
17/01/2017	23:00-07:00	 	45	25	17	45
18/01/2017	07:00-19:00	 	75			70
18/01/2017	19:00-23:00	 	60			60
18/01/2017	23:00-07:00	 	45	28	24	45
19/01/2017	07:00-19:00	 	75			70
19/01/2017	19:00-23:00	 	60			60
19/01/2017	23:00-07:00	 	45	32	20	45
20/01/2017	07:00-19:00	 	75			70
20/01/2017	19:00-23:00	 	60			60
20/01/2017	23:00-07:00	 	45	31	23	45
21/01/2017	07:00-19:00	 	75			70
21/01/2017	19:00-23:00	 	60	27	27	60
21/01/2017	23:00-07:00	 	45	32	25	45
22/01/2017	07:00-23:00	 	60	27	26	60
22/01/2017	23:00-07:00	 	45	34	24	45
23/01/2017	07:00-19:00	 	75			70
23/01/2017	19:00-23:00	 	60	27	24	60
23/01/2017	23:00-07:00	 	45	32	26	45
24/01/2017	07:00-19:00	 	75			70
24/01/2017	19:00-23:00	 	60	38	29	60
24/01/2017	23:00-07:00	 	45	33	25	45
25/01/2017	07:00-19:00	 	75			70
25/01/2017	19:00-23:00	 	60			60
25/01/2017	23:00-07:00	 	45	30	26	45
26/01/2017	07:00-19:00	 	75			70
26/01/2017	19:00-23:00	 	60			60

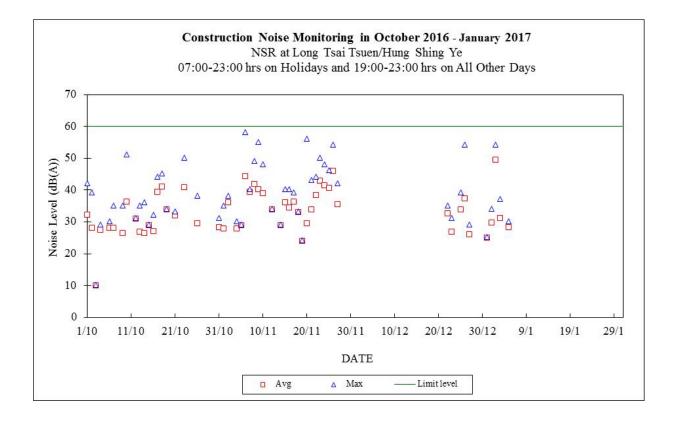
26/01/2017	23:00-07:00	 	45	27	23	45
27/01/2017	07:00-19:00	 	75			70
27/01/2017	19:00-23:00	 	60			60
27/01/2017	23:00-07:00	 	45	33	24	45
28/01/2017	07:00-23:00	 	60			60
28/01/2017	23:00-07:00	 	45	32	23	45
29/01/2017	07:00-23:00	 	60	33	27	60
29/01/2017	23:00-07:00	 	45	28	25	45
30/01/2017	07:00-23:00	 	60	33	29	60
30/01/2017	23:00-07:00	 	45	35	29	45
31/01/2017	07:00-23:00	 	60			60
31/01/2017	23:00-07:00	 	45			45

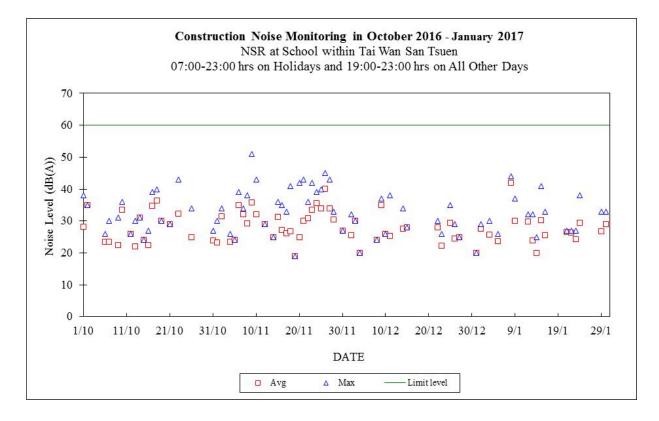
Note:

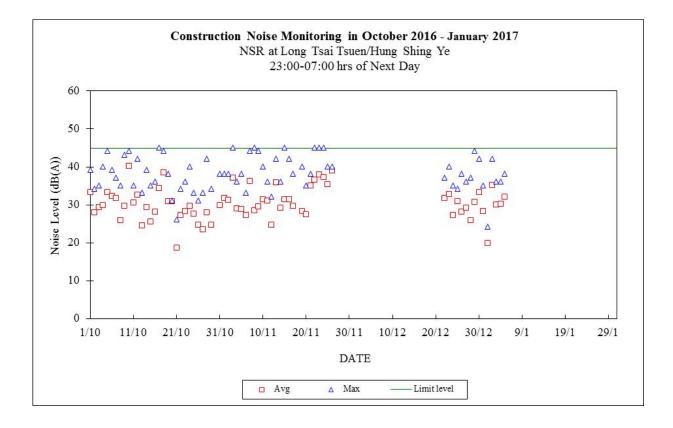
- a. "---" represents the measured noise monitoring data lower than the established notional background level, particularly for the period of 06/01/2017 07:00 -01/02/2017 07:00. The Ash Lagoon noise monitoring station was in normal operation but there were no data of calculated noise level at NSR at Long Tsai Tsuen/Hung Shing Ye.
- b. Continuous noise monitoring was carried out at holidays & evening-time (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) under construction noise permit.

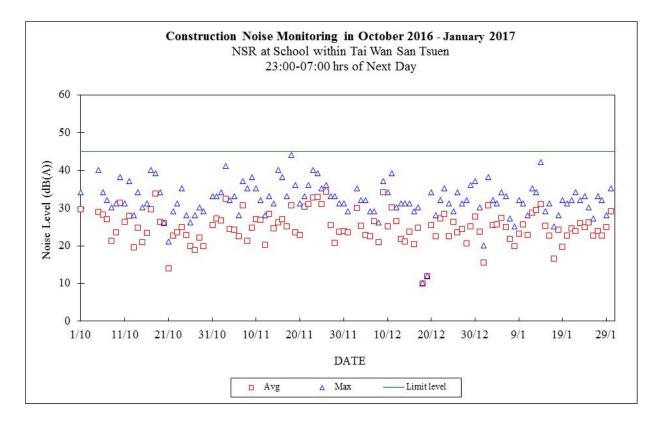












# Appendix F

The QA/QC Procedures and Results

## THE HONGKONG ELECTRIC CO., LTD. LAMMA POWER STATION EXTENSION TEOM CONTINUOUS DUST MONITOR DATA QUALITY ASSURANCE LOG SHEET

Aonth: Janu	iary Year:	Reservoir (	AM1)	
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
4/1/2017	269.425	4	3.08	14.05
10/1/2017	268.769	4	3-10	14-14
16/1/2017	268.148	4	3-15	14-33
22/1/2017	267.523	4	3-13	14.26
28/1/2017	259-116	4	3-14	14-33

		East Gate (	AM2)	
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 - 3.30)	Bypass Flow (l/min) (12.30 - 15.04)
4/1/2017	258.952	4	3.04	13-8+
10/1/2017	238-353	4	3.06	13.94
16/1/2017	257-672	4	3-11	14.13
22/1/2017	256-982	4	3.09	14.08
28/1/2017	259.542	4	3-10	14-13

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (0.90 – 1.10)	Bypass Flow (l/min) (14.10 – 17.20)
4/1/2017	255-458	4	(-00	15-69
10/1/2017	255-266	4	1.00	15.69
16/1/2017	255.081	4	1.00	15.69
22/1/2017	254-887	4	1-00	15-69
28/1/2017	254-664	4	1.00	15-69

	Maintenance R	ecord	
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange		$\checkmark$	V
Clean TSP Inlet	V	$\checkmark$	V
Replace flow in-line filter		<ul> <li>✓</li> </ul>	
Pump Repair			
Leak Check			
Flow Audit			
Flow Controller Calibration			,
A/C filter cleaning	$\checkmark$	V	

Remarks:

Prepared by : Q Checked by :

D.\alex\teomchk.doc

#### HIGH VOLUME AIR SAMPLER SITE VISIT LOG SHEET

Site Name:	RE	Site No.:	AMI
Date of visit:	17-1-2017	Hour of Visit:	13:15 Wa
Staff name:	W.M.TAM / H.T. PANG	HVAS S/N:	0 31
Used filter paper no.:	MH69	New filter paper no.:	MHTI
Type of filter:	Glass-fibre		
I. Ambient Condit	ions		
Temperature, T	a = 295.2 K Pi	ressure, $P_a = \_$	(03.2 mb

#### II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min.}$ (inch H <sub>2</sub> O)
1534(10/2016)	$H_a = 18.32(T_a/P_a) ={5.34}$

 Manometer reading before calibration:
 5.40

 Adjustment of flow controller (Y/N):
 N

 Manometer reading after calibration:
 N/A

Note: Tolerance Limit of HVAS flow: "1.0 ft3/min. Corresponding limits for manometer : "0.2 inch H2O

#### III. General Conditions of HVAS

IV.	Remarks		
Condi	ucted by: WWTTAM H.T.PALIA	_ Checked by:	TAL
File Na	me: HVASCAL_1535_2016.Doc		
	· · · ·		

#### HIGH VOLUME AIR SAMPLER SITE VISIT LOG SHEET

N

Site Name:	<u>Eg</u>	Site No.:	AM2
Date of visit:	17-1-2017	Hour of Visit:	15=00 hrs
Staff name:	W.M.TAM (H.T. FANG	HVAS S/N:	0132
Used filter paper no.:	MHTO	New filter paper no.:	MH72
Type of filter:	Glass-fibre		
I. Ambient Condition	15		
Temperature, $T_a =$	= <u>294.2</u> K Pr	essure, $P_a = 10$	169mb

#### II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min.}$ (inch H <sub>2</sub> O)
1534(10/2016)	$H_a = 18.32(T_a/P_a) = _5.30$

Manometer reading before calibration:5.10Adjustment of flow controller (Y/N):YManometer reading after calibration:5.30

Note: Tolerance Limit of HVAS flow: " 1.0 ft3/min. Corresponding limits for manometer : " 0.2 inch H2O

III. General Conditions of HVAS

				2.1
	14-14-14-14-14-14-14-14-14-14-14-14-14-1		·	
IV.	Remarks			
Cond	lucted by: WINTAM   HT PANG	Checked by:	HA	<u>&gt;</u>

File Name: HVASCAL\_1535\_2016.Doc

# MINI VOLUME AIR SAMPLER SITE VISIT LOG SHEET

Site Name:	Tai Yuen Village	Site No.:	AM4
Date of visit:	17-1-2017	Hour of Visit:	14:00 hre
Staff name:	W.M.TAM (H.T.PANG	MINIVOL S/N:	3393
Used filter paper no.:	MO 72	New filter paper no.:	M073
Type of filter: I. Calibration is perf	Cellulose / Glass (Delete as appropr formed by using BIOS	iate)	)
5 Sl/min set point	is recommended		
5.07	Before	<u>5.02</u> Aft	er
II. General Service of N	Aini Vol Air Sampler		
	ameter:	×	
	blace Pump Valves:	X	
-	place Pump Diaphrag		
1	action Inlet:		
1		1	
.1	imer Battery Every 6	A star	
o. Replace if	ilet Filter:		
····			
III. Remarks			•
**************************************			
Conducted by: <u>MMTam</u>	HITPANG	Checked by :	MEM

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## THE HONGKONG ELECTRIC CO., LTD. LAMMA POWER STATION AND LAMMA EXTENSION NOISE MONITORING STATIONS SITE VISIT LOG SHEET

Location <u>Station Building Rooftop/Reservoir Area/Ching Lam/</u>
Ash Lagoon/No.2 Limestone Silo Roof/Hung Shing Ye*
Date 20-1-2017 Time 945 Wrs
Equipment Bak 2050 Serial No. 3009916
Staff Attended W.M.TAM W.H. MAN
1. <u>Calibration</u>
Acoustic calibrator: <u>Bak4031 (SN127304A</u> )
Noise level measured in calibration: $\underline{\mathfrak{B}}$ (94±1.0 dBA)
2. Weather Conditions
a. Sunny/fine/cloudy/showery/heavy-rain*
b. Strong-wind/breeze/calm*
3. <u>Beacon</u>
Function normally (Yes/No): TES
4. <u>Remark/Observation</u>
Note: * - Please delete where inappropriate.
Conducted By: WWW WHMAN Checked By: Terme Chin
June 2016

## THE HONGKONG ELECTRIC CO., LTD. LAMMA POWER STATION AND LAMMA EXTENSION NOISE MONITORING STATIONS SITE VISIT LOG SHEET

Loca	ation _ <del></del>
	-Ash-Lagoon/No.2-Limestone-Silo-Roof/Hung-Shing-Ye*
Date	= 17-1-2017 Time 15-45 hr
Equi	ipment <u>Bak 2250</u> Serial No. <u>300.062</u>
Staf	Ef Attended W.M.TAM W.H. MAN
1.	Calibration
	Acoustic calibrator: <u>Bak 4231 (SN: 2730419</u> )
	Noise level measured in calibration: $949$ (94±1.0 dBA)
2.	Weather Conditions
	a. Sunny/fine/cloudy/showery/heavy-rain*
	b. Strong-wind/breeze/calm*
3.	Beacon
	Function normally (Yes/No):
4.	Remark/Observation
Note	: * - Please delete where inappropriate.
Conc	ducted By: WMTOM WHMAIN Checked By: Terrow Ch

June 2016

# 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.	Check Contractor's working methods and advise IEC and ET accordingly.	Submit proposals for remedial actions to Engineer.
	the Construction works, verbally advise the Contractor, Engineer and IEC, and inform the EPD of the exceedance, as soon as practicable.		Discuss with Contractor the remedial actions to be implemented.	Amend proposals if required by the Engineer.
	Discuss remedial actions required with	Verify the implementation of the remedial measures	Keep the Contractor informed of the efficacy of remedial actions.	Implement remedial actions immediately upon instruction from the Engineer.
	Engineer.		If the exceedance continues, consider what portion of the work is responsible and instruct the	If the exceedance continues, consider what portion of the work is responsible
	Increase manual monitoring frequency to assess efficacy of remedial measures.		Contractor to stop the portion of work until the exceedance is abated	and, as instructed by the Engineer, stop the portion of work until the exceedance is abated

# Table G.3Event and Action Plans for Water Quality

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

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

# Appendix H Summary of Site Audit Findings

# L10 Piling Foundation Work (275 kV S/S Construction Sites)

Dates of Inspection: 06/01/2017, 13/01/2017, 20/01/2017 and 27/01/2017.

## 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.

# L10 Civil & Building Superstructure Work

# Dates of Inspection: 03/01/2017, 10/01/2017, 17/01/2017 and 24/01/2017.

# Summary of Findings

#### General

- No environmental deficiency identified.

# Air Quality

- No environmental deficiency identified.

## Noise

- No environmental deficiency identified.

# Water Quality

- No environmental deficiency identified.

## Waste Management

- No environmental deficiency identified.

# L11 Piling Foundation Work

## Dates of Inspection: 06/01/2017, 13/01/2017, 20/01/2017 and 27/01/2017.

# Summary of Findings

#### General

- No environmental deficiency identified.

# Air Quality

- No environmental deficiency identified.

## Noise

- No environmental deficiency identified.

# Water Quality

- No environmental deficiency identified.

## Waste Management

- No environmental deficiency identified.

# Summary of EMIS

# Power Station – (Part B of EIA Report)

# **Construction Phase Mitigation Measures and their Implementation**

EM&A Log Ref.	Mitigation Measures	Implementation Status
	AIR QUALITY	
A1	For general construction works, the dust control measures stipulated under the Air Pollution Control (Construction Dust) Regulation shall be complied with, such as:	
	• the haul roads shall be sprayed with water to keep the entire road surface wet.	С
	• the load carried by vehicle shall be covered by impervious sheeting to ensure no leakage of dusty materials from the vehicle.	С
	• the heights from which fill materials are dropped shall be controlled to a practical level to minimise the fugitive dust arising from unloading.	С
A2	For the concrete batching plant, the following control measures are recommended:	
	• loading, unloading, handling, transfer or storage or any dusty materials shall be carried out in a totally enclosed system.	С
	• The materials which may generate airborne dust emissions shall be wetted by water spray system.	С
	• All receiving hoppers shall be enclosed on three sides up to 3m above unloading point.	С
	All conveyor transfer points shall be totally enclosed.	С
	WATER QUALITY	
B1	Silt curtains shall be installed on the eastern, southern and north western sides of the reclamation site during dredging for the reclamation construction. This is a required mitigation measure for the construction works and shall be implemented prior to the commencement of bulk dredging. **	N/A
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
B5	Sand fill for the rubble mound seawalls shall be placed by controlled pumping down the trailer arm. **	N/A
B6	EM&A shall confirm the acceptability of any impacts during construction and should any unacceptable impacts be found then one or more of the following mitigation measures shall be implemented: **	N/A
	<ul> <li>reducing the number of dredgers working at any one time;</li> <li>reducing the rate of working of the dredgers;</li> <li>temporary suspension of operations;</li> <li>phasing of the works so that dredging / filling is only undertaken at certain stages of the tidal cycle.</li> </ul>	

EM&A Log Ref.	Mitigation Measures	Implementation Status
В7	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.	N/A
	• Break the mass of main buildings by varying the height/division into smaller units.	N/A
	Plant trees and vegetation for screening.	N/A
	• Adopt colour scheme to blend the buildings into the scenery.	N/A

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
	<ul> <li>Segregate and sort the waste materials into 3 categories:</li> <li>public fill (e.g. concrete and rubble) for re-use on-site or disposal at a public filling area;</li> </ul>	С
	<ul> <li>re-use and/or recycling waste (e.g. steel and other metals);</li> <li>waste which cannot be re-used and/or recycled (e.g. wood, glass and plastic) for landfill disposal.</li> </ul>	
	• The sorting process shall be carefully monitored to avoid missing of the 3 categories. Different types of wastes shall be stockpiled and stored in different containers or skips to enhance re-use or recycling of materials and their proper disposal.	
	• Maintain records of the quantities of wastes generated and disposed off-site for each category of waste.	С
E4	Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes	С
	LAND CONTAMINATION	
F1	No land Contamination mitigation measures are required during the construction phase.	N/A
	MARINE ECOLOGY	

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

# Remarks:

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

SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

#### Contract No. 15/8009 - Lamma Power Station Extension Foundation Works for Unit L10

#### Master Programme Revision 1

Key Date           1.1         Commencement da           1.2         Duration of works           1.3         Possession date	e	486 days	0040/4/4	
1.1Commencement da1.2Duration of works1.3Possession date	e	486 days	0040/4/4	
1.2Duration of works1.3Possession date	<u>a</u>		2016/1/1	2017/4/30
1.3 Possession date		0 days	2016/1/1	2016/1/1
		486 days	2016/1/1	2017/4/30
		0 days	2016/1/1	2016/1/1
1.4 Completion of the C	ontract	0 days	2017/4/30	2017/4/30
2 Total Contract Period		486 days	2016/1/1	2017/5/1
2.1 Preliminaries		37 days	2016/1/1	2016/2/6
	th utility companies	14 days	2016/1/1	2016/1/14
2.1.2 Condition surve		20 days	2016/1/1	2016/1/20
	ommencement of works to Labour Department	7 days	2016/1/1	2016/1/20
	ir pollution control for commencement of works to EPD	7 days	2016/1/1	2016/1/7
	rater discharge licence from EPD	7 days	2016/1/1	2016/1/7
	billing account for disposal of construction waste from EPD		2016/1/1	2016/1/7
	ng underground drainage pipe around site boundary	7 days 21 days	2016/1/1 2016/1/1	2016/1/7
			2016/1/1 2016/1/1	2016/1/21
	for existing underground cables	20 days	2016/1/1 2016/1/1	
		21 days		2016/1/21
	tractor's site office	21 days	2016/1/1	2016/1/21
	ionitoring checkpoints 3A10 for ELS & foundation works	20 days	2016/1/18 2016/1/1	2016/2/6 2016/1/1
2.1.12 Submission of	SATU TOF ELS & TOUNDATION WORKS	0 days	2016/1/1	2016/1/1
2.2 Section A		305 days	2016/1/1	2016/10/31
2.2.1 Hoarding		90 days	2016/1/1	2016/3/30
.2.1.1 Erection o	Hoarding	90 days	2016/1/1	2016/3/30
	orks at Unit L10	295 days	2016/1/11	2016/10/31
	e - Temporary Steel Casing	56 days	2016/1/22	2016/3/17
	on for delivery temporary steel casing	56 days	2016/1/22	2016/3/17
		172 days	2016/2/24	2016/8/13
	e - Permanent Casing & Double Wall Liner g for double wall liner	0 days	2016/2/24	2016/8/13
	on for delivery permanent casing & double wall liner	160 days	2016/3/7	2016/8/13
	- Plant Mobilization	56 days	2016/1/15	2016/3/11
	er Crane	53 days	2016/1/15	2016/3/8
	st & 2nd set	0 days	2016/1/15	2016/1/15
	rd set	0 days	2016/2/4	2016/2/4
	th & 5th set	0 days	2016/2/19	2016/2/19
	th set	0 days	2016/3/8	2016/3/8
.2.3.2 Oscil		35 days	2016/1/29	2016/3/4
	st & 2nd set	0 days	2016/1/29	2016/1/29
	rd & 4th set	0 days	2016/2/24	2016/2/24
	th set	0 days	2016/3/4	2016/3/4
.2.3.3 RCD		7 days	2016/3/4	2016/3/11
	st & 2nd set	0 days	2016/3/4	2016/3/4
	rd, 4th & 5th set	0 days	2016/3/11	2016/3/11
.2.2.4 Predrillin		60 days	2016/1/11	2016/3/10
	lling works (38 nos.)	60 days	2016/1/11	2016/3/10
	Construction	263 days	2016/2/12	2016/10/31
	pile construction (38 piles)	215 days	2016/2/12	2016/9/13
		30 days	2016/8/25	2016/9/23
	•	7 days	2016/9/17	2016/9/23
	ission of BA14	1 day	2016/9/23	2016/9/23
.2.5.5 Allow	14 days for selection of pile for concrete full core test	14 days	2016/9/24	2016/10/7
arommo Te	sk Critical Task (	istone	mmary	
gramme			Thirley V	•
.2.5. .2.5. .2.5. .2.5.	2 Interfa 3 Prepa 4 Subm 5 Allow	2     Interface & sonic test       3     Prepare & submit as-built record plan       4     Submission of BA14       5     Allow 14 days for selection of pile for concrete full core test	2     Interface & sonic test     30 days       3     Prepare & submit as-built record plan     7 days       4     Submission of BA14     1 day       5     Allow 14 days for selection of pile for concrete full core test     14 days	2     Interface & sonic test     30 days     2016/8/25       3     Prepare & submit as-built record plan     7 days     2016/9/17       4     Submission of BA14     1 day     2016/9/23       5     Allow 14 days for selection of pile for concrete full core test     14 days     2016/9/24

M14 2月	M15 3月	M16 4月
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#### SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

#### Contract No. 15/8009 - Lamma Power Station Extension Foundation Works for Unit L10

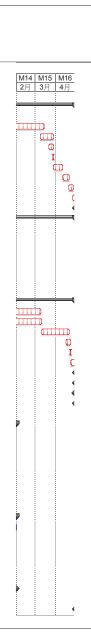
em T				
	ask Name	Duration	Start	Finish
.2.2.5.6	Concrete full core test	14 daya	2016/10/8	2016/10/21
.2.2.5.0	Compression test for concrete core	14 days 7 days	2016/10/22	2016/10/21
.2.2.5.7	Submission of log report & compression test report	4 days	2016/10/22	2016/10/28
2.2.3.6	Submission of nog report & compression test report	92 days	2016/10/28	2016/10/21
2.2.2.6.1	Plant mobilization	-	2016/7/31	2016/7/31
.2.2.6.1		0 days		2016/7/22
	Delivery sheet pile material	0 days	2016/7/22	
.2.2.6.3	Installation of sheet pile - Type A (approx. 212 piles)	50 days	2016/8/1	2016/9/19
.2.2.6.4	Installation of sheet pile - Type B (approx. 100 piles)	24 days	2016/9/20	2016/10/13
.2.2.6.5	Prepare & submit as-built record plan	7 days	2016/10/14	2016/10/20
.2.2.6.6	Submission of BA14	1 day	2016/10/21	2016/10/21
2.2.2.7	Completion of foundation works at Unit L10	0 days	2016/10/31	2016/10/31
2.2.3	New Site Facilities	198 days	2016/1/1	2016/7/16
2.2.3.1	Submission for design of site office A	90 days	2016/1/1	2016/3/30
2.2.3.2	Approval for design of site office A	28 days	2016/3/31	2016/4/27
2.2.3.3	Erection of site office A	50 days	2016/4/28	2016/6/16
2.2.3.4	Erection of wasing facilities with shelter & container shower facilities	20 days	2016/5/28	2016/6/16
2.2.3.5	Installation of earthing	30 days	2016/6/7	2016/7/6
2.2.3.6	Installation of portable water pipes	30 days	2016/6/17	2016/7/16
2.2.3.7	Installation of sewage drain pipes	30 days	2016/6/17	2016/7/16
2.2.3.8	Completion of new site facilities	0 days	2016/7/16	2016/7/16
2.2.4	Completion of section A	0 days	2016/10/31	2016/10/31
2.2.5	Demobilization of plants	0 days	2016/10/21	2016/10/21
2.3	Handover of site works area for Section A	0 days	2016/11/1	2016/11/1
2.4	Section B	121 days	2016/1/1	2016/4/30
2.4.1	Ground Treatment Works	121 days	2016/1/1	2016/4/30
2.4.1.1	Verification GI works (approx. 20 nos.)	14 days	2016/2/20	2016/3/4
2.4.1.2	Plant mobilization	55 days	2016/1/1	2016/2/24
2.4.1.3	Trial installation of band drain	5 days	2016/2/25	2016/2/29
2.4.1.4	Installation of band drain (approx. 2477 nos.)	45 days	2016/3/1	2016/4/14
2.4.1.5	Installation of steel plate & geotextile on existing U-channel	20 days	2016/3/28	2016/4/16
2.4.1.6	Filling of surcharge (approx. 21000 m3)	20 days	2016/4/7	2016/4/26
2.4.1.7	Installation of ground settlement markers	10 days	2016/4/21	2016/4/30
2.4.2	Completion of section B	0 days	2016/4/30	2016/4/30
2.5	Section C	229 days	2016/9/14	2017/4/30
2.5.1	Hoarding	45 days	2016/11/1	2016/12/15
2.5.1.1	Erection of Hoarding	45 days	2016/11/1	2016/12/15
2.5.2	Foundation Works at 275kV Substation Building	229 days	2016/9/14	2017/4/30
2.5.2.1	Early start milestone	0 days	2016/10/6	2016/10/6
2.5.2.2	Bored Pile - Temporary Steel Casing	7 days	2016/9/14	2016/9/20
.5.2.2.1	Duration for delivery temporary steel casing	7 days	2016/9/14	2016/9/20
2.5.2.3	Bored Pile - Permanent Casing & Double Wall Liner	120 days	2016/9/26	2017/1/23
.5.2.3.1	Duration for delivery permanent casing & double wall liner	120 days	2016/9/26	2017/1/23
2.5.2.4	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,			2016/10/15
.5.2.4.1				2016/10/15
.2.4.1.1				2016/10/1
.2.4.1.1		,		2016/10/1
.2.4.2.1				
		,		2016/10/5
.5.2.4.3				2016/10/15
.2.4.3.1		,		2016/10/15
2.5.2.5	Predrilling	21 days	2016/11/1	2016/11/21
2.5. .5.2. .2.4. .5.2. .2.4. .5.2. .2.4.	2.4 4.1 1.1 4.2 2.1 4.3 3.1	Bored Pile - Plant Mobilization           4.1         Crawler Crane           1.1         1st & 2nd set           4.2         Oscillator           2.1         1st & 2nd set           4.3         RCD           3.1         1st & 2nd set           2.5         Predrilling	2.4         Bored Pile - Plant Mobilization         14 days           4.1         Crawler Crane         0 days           1.1         1st & 2nd set         0 days           4.2         Oscillator         0 days           2.1         1st & 2nd set         0 days           4.3         RCD         0 days           3.1         1st & 2nd set         0 days           2.5         Predrilling         21 days	Bored Pile - Plant Mobilization         14 days         2016/10/1           4.1         Crawler Crane         0 days         2016/10/1           1.1         1st & 2nd set         0 days         2016/10/1           4.2         Oscillator         0 days         2016/10/5           2.1         1st & 2nd set         0 days         2016/10/5           4.3         RCD         0 days         2016/10/15           3.1         1st & 2nd set         0 days         2016/10/15

#### SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

#### Contract No. 15/8009 - Lamma Power Station Extension Foundation Works for Unit L10

#### Master Programme Revision 1

D	Item	Task Name	Duration	Start	Finish
	nem	Table Name	Duration	Start	1 111311
05	2.5.2.5.1	Predrilling works (10 nos.)	21 days	2016/11/1	2016/11/2
06	2.5.2.5.1	Bored Pile	181 days	2016/11/1	2010/11/2
07	2.5.2.6.1	Installation of monitoring checkpoints	7 days	2016/11/1	2017/4/30
08	2.5.2.6.1	Bored pile construction (10 piles)	125 days	2016/11/10	2016/11/7
09	2.5.2.6.2	Interface & sonic test	20 days	2017/3/9	2017/3/14
10	2.5.2.6.4	Prepare & submit as-built record plan	7 days	2017/3/22	2017/3/28
11	2.5.2.6.4	Submission of BA14	1 day	2017/3/22	2017/3/28
12	2.5.2.6.6	Allow 14 days for selection of pile for concrete full core test	14 days	2017/3/29	2017/3/20
13	2.5.2.6.0	Concrete full core test	14 days 10 days	2017/3/29	2017/4/11
13	2.5.2.6.7	Compression test for concrete core	7 days	2017/4/12	2017/4/21
15	2.5.2.6.8		4 days	2017/4/21	2017/4/27
15	2.5.2.6.9	Submission of log report & compression test report Completion of foundation works at 275kV substation building	0 days	2017/4/27	2017/4/30
· .		Trial Pile	,		
17	2.5.3 2.5.3.1		212 days	2016/10/1	2017/4/30
18		Early start milestone	0 days	2016/10/1	2016/10/1
19	2.5.3.2	Submission of BA10 for trial pile	7 days	2016/11/1	2016/11/7
20	2.5.3.3	Predrilling	28 days	2016/11/8	2016/12/5
21	2.5.3.3.1	Predrilling works (3 nos.)	28 days	2016/11/8	2016/12/5
22	2.5.3.4	Ground Instrumentation	24 days	2016/11/22	2016/12/1
23	2.5.3.4.1	Installation of magnetic extensometer in predrilled hole (3 nos.)	16 days	2016/11/22	2016/12/7
24	2.5.3.4.2	Installation of settlement plate	10 days	2016/12/6	2016/12/1
25	2.5.3.5	Construction of Trial Pile	136 days	2016/12/16	2017/4/30
26	2.5.3.5.1	Installation of trial pile (6 piles)	84 days	2016/12/16	2017/3/9
27	2.5.3.5.2	Dynamic pile test	72 days	2016/12/29	2017/3/10
28	2.5.3.5.3	Static load test	42 days	2017/3/11	2017/4/21
29	2.5.3.5.4	Prepare & submit as-built record plan	7 days	2017/4/17	2017/4/23
30	2.5.3.5.5	Submission of BA14	1 day	2017/4/23	2017/4/23
31	2.5.3.5.6	Cut off the piles to level +3.0mPD	7 days	2017/4/24	2017/4/30
32	2.5.3.6	Completion of trial pile	0 days	2017/4/30	2017/4/30
33	2.5.4	Completion of section C	0 days	2017/4/30	2017/4/30
34	2.5.5	Demobilization of plants	0 days	2017/4/30	2017/4/30
35	2.6	Handover of site works area for Section C	0 days	2017/5/1	2017/5/1
36 37	2.7	Section D	383 days	2016/1/15	2017/1/31
38	2.7.1	General Site Works	36 days	2016/3/1	2017/1/31
39	2.7.1	Cable duct & draw pit	21 days	2016/3/1	2016/3/21
40	2.7.1.1	Reloaction of lamp pole (5 poles)	21 days 20 days	2016/3/17	2016/3/21
41	2.7.1.2	G.I. Works	99 days	2016/3/17	2016/6/10
12					
+2 13	2.7.2.1	Submission of BA10 for G.I. works Carry out G.I. works (11 nos.)	7 days 85 days	2016/3/4 2016/3/11	2016/3/10
+3 14	2.7.2.2	Prepare & submit as-built record plan	7 days	2016/3/11 2016/6/4	2016/6/3
44	2.7.2.3	Submission of BA14	1 days	2016/6/10	2016/6/10
45	2.7.2.4	Ground Treatment Time	276 days		
40	2.7.3	9 months for monitoring settlement after completion of ground treatment	276 days 276 days	2016/5/1 2016/5/1	2017/1/31 2017/1/31
48	2.7.3.1	S months for monitoring settlement after completion of ground treatment	276 days 227 days	2016/5/1	2017/1/3
19	2.7.4.1	Repair & make good site office B & existing latrines	90 days	2016/3/1	2016/5/29
50	2.7.4.2	Removal of the employer's materials stored in E6 area as instructed by the Engineer	90 days	2016/1/15	2016/4/13
51	2.7.4.3	Installation of bund wall of sandbags	60 days	2016/5/1	2016/6/29
	2.7.4.4	Construction of new type 3 road	60 days	2016/6/30	2016/8/28
53	2.7.5	Completion of section D	0 days	2017/1/31	2017/1/31
54		October of according to a		0047/1/00	0017/1/27
55	2.8	Contract completion	0 days	2017/4/30	2017/4/30



Page 3

Description         138 days         Private         M         A         M         J           Description         0 day         0		ask Name	Duration	Start	Finish	
Presents Def         104 days         01111         310200           Basel Contractore Line         104 days         01111         01111           Section A: U-S into Other Schwart Schwart A: U-S into Other Schwart A: U-S intoO					_	F M A M J
Order Commerciants Data         E. Bays         011110         011111         011111         011111           Sedian - L. Nach Chell and L. Data data Bin Tays         11111         311207         311207         311207           Sedian - L. Nach Chell and L. Data data Bin Tays         11111         311207         311207         311207           Sedian - S. Avas Chell and Mallou Data Image Stagualt         424 days         011111         311207         311207           Sedian - S. Avas Chell and Mallou Data Image Stagualt         427 days         011111         311207         311207           Sedian - S. Avas Chell and S. Mallou Data Image Stagualt         427 days         011111         311207         311207           Sedian - L. Mattel S. A Mallou Data Image Stagualt         427 days         011111         314017         314017           Sedian - L. Mattel S. A Mallou Data Image Stagualt         427 days         011111         314017         314017           Sedian - L. Mattel S. A Mallou Data Image Stagualt         77 days         011111         314017         314017           Sedian - L. Mattel S. A Stagualt         77 days         010111         304017         011111         314017           Sedian - L. Mattel S. A Stagualt And A Stagualt         77 days         010117         3040117         101110         1011110<						-1
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Sector D- Reading of MBBU 6 MBC Akk at US 15, Dick Jack Denoting for York         95 (200)         91 (200)		Section B2 - Surcharge relocation & assoicated top-up works	122 days	01/09/17	31/12/17	
Sector D. Resume of MSB100 /HSG. AAA in U.S. Li, Die A. Demotion is in lot H.         9102000         9102000         910200	;	Section C - Area C3, HRSG & MSBU10 for Empolyer's Specialist	457 days	01/11/16	31/01/18	
3         Seden D. C. M. Pare Eagle, Per N. 4         36. Signal         0.04417         30336           3         Seden D. C. M. Pare Eagle, Per N. 4         47. Signal         307. Signal         300. Signal	)			01/11/16	31/03/18	
Concert - Live & Borger & Honding Franka         440 mg         600011         500001         <	0	Section D - CW Pump Equip. Rm No. 4		01/04/17	31/03/18	
9         Sectors - Domin. Pairt fload & No 3 Outal         273 days         0101918         300017 5           Sectors - MacRistan & No 4. Of Ventask         122 days         0101918         300017 5           Sectors - MacRistan & No 4. Of Ventask         122 days         0101918         500117 - 100 fload & 300017 5           Sectors - Hold Chorney File and AAI & B promotion and the soft of the so	1	Section E - Middel Rd & South of L10. Expose & Construction New 275kV Trench at LMX	577 days	01/11/16	31/05/18	
Settor - Domin Print Flored X Mod Southal         27 days         010011         300016           Settor - Manifestarian M o 4 (W Haak A match)         12 days         010011         010011         010011           Settor - Manifestarian M o 4 (W Haak A match)         12 days         010011         010011         010011         010011         010011         010011         010011         010011         010011         010011         0100111	,	Section E. Lines Storage & Handling Eastilies	100 dovo	01/05/17	21/00/10	
Bedico G- Modification R No 4 CW India         112 days         0101114         515114           Sedication T- Statistication A Service Advances         745 days         0011114         515114           Sedication T- Statistication A Service Advances         715 days         0011114         515114           Sedication T- Statistication A Statistis A Statistication A Statistication A Statistication A						
Sector H-Cas Support bunchson & seven A Avaa C11         77.5 drigs         01/11/16         15/11/18         Image: manufacture and avaa C10         77.5 drigs         01/11/16         15/11/18         Image: manufacture and avaa C10         77.5 drigs         01/11/16         15/11/18         Image: manufacture and avaa C10         77.5 drigs         01/11/16         15/11/18         Image: manufacture and avaa C10         77.5 drigs         01/11/16         15/11/18         Image: manufacture and avaa C10         77.5 drigs         01/11/16         15/11/18         Image: manufacture and avaa C10         77.5 drigs         01/11/16         15/11/18         Image: manufacture and avaa C10         77.5 drigs         01/11/16         15/11/18 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-1</td>						-1
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Section 11-1:10 Chinemy Flue and AAAL D4 Spee rank Kornalion         310 days         0101/16         151/11           Section 11-1: Initiality & standardia AAA         456 days         0101/11         310 days           Section 12-1: Hun Reader SIAF Foundation         40 days         0101/11         310 days           Section 12-1: Hun Reader SIAF Foundation         40 days         0101/11         310 days           Section 12-1: Hun Reader SIAF Foundation         40 days         0101/11         310 days           Section 12-1: Hun Reader SIAF Foundation         40 days         01001/11         310 days           Section 12-1: Hun Reader SIAF Foundation         410 days         01001/11         300 days           Deferred works aning DAP         451 days         011/114         446 days         011/114           Central & Freilminary         451 days         011/114         211/216         211/216           Existing Villation SA Statusy Submission         7 days         0101/116         211/216         211/216           Tower Canze Freindon         7 days         011/116         221/216         211/216         211/216           Statusting Reader Statusy Submission A Approval from HEC         200 days         011/116         240 days         200 days         011/116         240 days           S						
Beckni 11 - Unit Bridge associated AA         455 days         010/10         3103/19           Beckni 12 - All memioning work scorpl deferred works         010/10         3103/19           Beckni 12 - All memioning work scorpl deferred works         700/10         3103/19           Deferred works during D4P         336 days         010/17         3105/19           Centrel A Ferlinary         441 days         060/19         3105/19           Centrel A Ferlinary         345 days         0010/17         3105/19           Centrel A Ferlinary         441 days         060/19         3105/19           Centrel A Ferlinary         454 days         001/11         040/17           Extang UBiles scanning & Excavation Permit         45 days         001/11         040/17           Forme Card Ferlinary         101/19         011/10         040/17           Tome Card Ferlinary         101/19         011/10         040/17           Bothesistion and Approval         20 days         001/17         040/17           Bothesistion and Approval from HEC for General Works         246 days         011/16         200/17           Bothesistion and Approval from HEC for General Works         246 days         011/16         200/17           Bothesistion and Approval from HEC for General Works         <						-1
Secton 12 - Shurt Rescinor SAF Foundation         60 days         010119         310319           Secton 12 - State Role         774 Gays         602017         30019           Secton 12 - State Role         774 Gays         602017         30019           Secton 12 - State Role         774 Gays         602017         30019           Defension was charg 0LP         30 day         001116         401116           Sett 01 - Tompony Ster Office and Utilities         30 day         001116         401116           Full Mobilization         14 days         001116         21118           Full Mobilization         14 days         001116         21118           Foundation of Tower Consectoration State Tome Construction         7 osy         1911/16         21118           Tower Conse Enciden         7 osy         1911/16         2401117         211118           Secton State St						-1
Secton 1 At emains you's acept deferred works         417. days         000216         300019           Secton 1 Actie Poids CPXE242 cable develos 16 0         000211         300019           Secton 1 Cable Poids CPXE242 cable develos 16 0         000211         300019           General A Preliminary         336 days         01071/0         305600           General A Preliminary         300 days         01071/0         30011/0           Fail Modification         44 days         0111/0         0011/0           Fail Modification         44 days         0111/0         2011/0           Fail Modification         45 days         0011/0         257216           Fail Modification         7 days         101216         277216           Fail Modification         7 days         101216         277216           Fail Modification & Status Stat						-1
1         Section J - Cable Roads Be carried up DLP         308 days         0000719         3000719         3000719           2         Determet works dung DLP         338 days         0107719         3156 days         0107719         3156 days           2         Determet works dung DLP         338 days         0117116         040218         0107719         3156 days           3         Bearnal & Meridians & Stuthang Stuthangs         44 days         011116         042218         0111116         042218           4         Hand Statians         44 days         0111116         042218         0111116         042218           6         Permit Adjoines & Stuthang Stuthesiones         45 days         0111116         042118         011116         042118           7         Desing Utilies scanning & Encavation Permit         45 days         011117         0701178         0400171         040171         040171           1         How Cass Encotion         7 days         010117         0701178         0400171         040171         040171           2         L11 MSE Entermit Scheduler (Struke Stuthasion A Approval from HEC         200 days         011116         240177         070178         01000171         01001711         01001711         01001711         01001711						-1
3         General & Preliminary         461 days         0011116         3001116         3001116           5         Full Mobilization         51 days         0011116         3001116           6         Full Mobilization         51 days         0011116         3001116           7         Full Mobilization         51 days         0011116         221218           6         Exating Utilities scarution Permit         45 days         0011116         221218           7         Toree Crane (Including Foundation)         15 days         100117         0701117           1         100 MSB External Scattoding Herroruti         30 days         101116         240118           8         Submitsion and Approval         30 days         101116         240118           8         Method Stateman Stattoding Foundation         126 days         2401116         240118           8         Studenes Stattoding Approval from HEC         200 days         111116         240118           8         Studenes Stattoding Approval from HEC         200 days         111116         141216           8         Studenes Stattoding Approval from HEC         200 days         1511116         141216           8         Studenes Stattone Stattoding Approval from HEC         200		Section J - Cable Route CPX1&2 cable diversion & whole of work except deferred works to				
3         General & Perliminary         44f days         64f days	2	Deferred works during DLP	336 davs	01/07/19	31/05/20	
4         Stup Temporary Site Office and Utilities         30 days         0111/16         30111/16           Full Mobilization         14 days         0111/16         144 days         01111/16         144 days           Feat Mobilization         45 days         00111/16         14111/16         14111/16           Excising Utilities scanning & Excanation Permit         45 days         01111/16         15121/16           Fraid Mobilizes canning & Excanation Permit         7 days         610111/16         0700111           Tower Canne Excision         7 days         010111/16         0700111           10.10 MBB External Scattofiling Periodiator)         116 days         200417         1700116           11.10 MBB External Scattofiling Periodiator         136 days         0111116         200917           11.10 MBB External Scattofiling Periodiator         450 days         0111116         200118           3         Method Statement / Temp Voks. Submission & Approval from HEC for General Works         200 days         0111116         200118           3         Bit Approval & Connection Design Externals and Boting as Approval from HEC for General Works         200 days         1011116         200117           4         Metal Clastofilio, Louis & Autorisa & Approval from HEC for General Works         20 days         1011116         1020						
Image: Full Mobilization in the start of the st						
6         Permit Applications & Statuary Submission         45 days         00111/8         15/21/8           7         Existing Utilities sammal & Scavasion Permit         45 days         01/11/8         15/21/8           8         Foundation of Tower Crane Construction         7 days         01/01/7         07/01/7           10         Removal of Tower Crane (Including Foundation)         16 days         160/01/7         07/01/7           11         Distance France         17 days         01/01/7         07/01/7         07/01/7           12         L10 MSR Ingerment         Statuary Statu						
7         Existing Unitese scanning & Excavation Permit         45 days         01/11/16         15/12/16           6         Foundation Tower Crane Exection         7 days         01/01/17         07/01/17           7         Tower Crane Exection         7 days         01/01/17         07/01/17           8         Tower Crane Exection         16 days         20/01/17         07/01/17           1         10/05 External Scatfolding erection         16 days         20/01/17         10/01/18           1         10/05 External Scatfolding rection         16 days         20/01/17         10/01/18           1         10/05 External Scatfolding rection         30 days         19/11/16         28/06/17           1         10/05 External Scatfolding rection         24/0 days         01/11/16         28/06/17           1         10/05 External Scatfolding rection         90 days         01/11/16         28/06/17           1         10/05 External Scatfolding rection Design Submission & BD Approval         30 days         15/11/16         14/12/16           1         Structure Steework Scatfording southmission & BD Approval         30 days         15/11/16         14/12/16           2         Structure Steework Scatfording southmission & BD Approval         30 days         15/11/16         14/12					22/12/16	
Image: Solution of Tower Came Construction         7 days         112/12/16           Image: Tower Came Exection         7 days         010117         070117           Image: Tower Came (Including Foundation)         16 days         1800/17         070117           Image: Tower Came (Including Foundation)         16 days         200017         070117           Image: Tower Came (Including Foundation)         16 days         200017         070117           Submission and Approval         30 days         191217         170118         200017           Submission and Approval from HEC for General Works         240 days         011116         220017           Submission and Approval         30 days         191217         170118         200017           Submission and Approval from HEC         200 days         011116         141216           Submission and Approval         30 days         191116         141216           Submission and Approval from HEC         200 days         191116         141216           Submission and Approval from HEC         200 days         191116         141216           Submission and Approval from HEC         200 days         191117         190117           Order, Offs Fabraciant and Delwys (S. Submission & B.D. Approval         80 days         190117						
Percense of Tower Caree (including Foundation)         18 days         180/16         0402/18           1.10 MSB External Scaffolding Removal         30 days         190/17         170/16           2         1.10 MSB External Scaffolding Removal         30 days         190/17         170/16           3         Submission and Approval         450 days         001/11         2400/18           4         Method Statement / Temp Work Submission & Approval from HEC         240 days         001/11/16         28/00/17           5         BD Approval & Consent (If required)         90 days         011/16         28/00/17         24/01/18           6         BLM Models, CSD & CBWDS Submission & Approval from HEC         200 days         011/16         28/02/17           7         Structure Steehovk Connection Design Submission & BD Approval         30 days         1511/16         14/27/6           8         Metal Cladding, Louve & Windows submission & BD Approval         80 days         130/17         130/17           1         Order, Off Ster Fabrication and Delivery (S. Steel & Clading & Louves)         180 days         130/17         130/17           2         OW Clading, Louve & Windows subgradming submission & BD Approval         50 days         20/17/16         28/02/17           3         Submission & Approval & Steel & Cl						
1         1.10 MSB External Scaffolding erection         145 days         2904/17         2009/17           1.10 MSB External Scaffolding Removal         30 days         1912/17         1770/18           3         Submission and Approval         450 days         0111/16         2400/17           4         Method Submission & Approval from HEC for General Works         200 days         0111/16         2400/17           5         BD Approval & Consent (if required)         60 days         0112/16         1400/17         1410/16           6         BM Model, CSD & CBWD Submission & Approval from HEC         200 days         0112/16         1400/17           7         Structure Steelwork Connection Design Submission & AD Approval         30 days         15111/16         1412/16           8         Structure Steelwork Shop Drawing & Approval         60 days         15111/16         1412/16           9         Metal Cladding, Loure & Avindows submission & BD Approval         60 days         15111/16         1420/16           10         Order, GH Ster Aprication and Delayery (Ster Action and Delayer) (Ster Action Action Action Action	9	Tower Crane Erection	7 days	01/01/17	07/01/17	
2         L10 MSB External Scaffolding Renoval         30 days         19/12/17         17/01/18           Submission and Approval         460 days         01/11/16         24/01/18           4         Method Statement / Temp Work Submission & Approval from HEC for General Works         240 days         01/11/16         24/01/18           5         BD Approval & Consent (If required)         90 days         01/12/16         28/00/17           6         BIM Model, CSD & CRMD Submission & Approval from HEC         200 days         01/12/16         18/00/17           7         Structure Steelwork Connection Design Submission & BD Approval         30 days         15/11/16         14/12/16           9         Metal Cladding, Loure & windows submission         45 days         29/11/16         13/01/17           10         Order, Off Sile Fabrication and Delivery (S. Steel & Cladding & Loure & Silon AD approval do stee File Design from BD         60 days         10/11/2         28/00/17           2         CW Clurer (Inte) [ELS Bogn from BD         60 days         29/06/17         28/00/17           3         Sumission & Approval of Stee File Design from BD         60 days         29/06/17         27/06/17           4         Submission & Approval of Stee File Design from BD         60 days         29/06/17         27/06/17           5	0	Removal of Tower Crane (Including Foundation)	18 days	18/01/18	04/02/18	
33         Submission and Approval         450 days         01/11/16         24/01/18           44         Method Statement / Temp Work Submission & Approval from HEC for General Works         240 days         01/11/16         24/01/18           55         BD Approval & Consent (If required)         90 days         01/12/16         180/61/7           66         BIM Model, CSD & CBWD Submission & Approval         90 days         01/12/16         180/61/7           76         Structure Steelwork Connection Design Submission & Daproval         90 days         15/11/16         14/12/16           80         Metal Cladding, louvre & windows submission & Daproval         90 days         15/11/16         14/12/16           90         Metal Cladding, louvre & windows submission & Approval         90 days         15/11/16         14/12/16           10         Order, Offsife Fabrication and Delivery (S. Steel & Cladding S louvres)         180 days         12/01/17         12/01/17           2         CW Cubert Infert Els BD approval & consent         90 days         01/12/16         28/02/17         12/01/17           3         Sumission and Approval & Colseign Drawings         210 days         29/06/17         27/06/17         12/06/17           4         Submission & Approval         60 days         15/01/17         13/00/17	31					
44         Method Statement / Temp Work Submission & Approval from HEC for General Works         240 days         01/11/16         280/017           55         BD Approval & Consent (If required)         90 days         01/12/16         280/017           66         BIM Model, CSD & GNWD Submission & Approval from HEC         200 days         01/12/16         280/017           77         Structure Steelwork Connection Design Submission & BD Approval         30 days         15/11/16         14/12/16           8         Structure Steelwork Shop Drawing & Approval         30 days         15/11/16         14/12/16           9         Metal Cladding, Loure & windows submission & BD Approval         60 days         15/11/16         13/01/17           10         Metal Cladding, Loure & windows submission & BD Approval         60 days         13/01/17         1/00/17           12         CW Cubert (Intel) ELS DD approval & consent         90 days         01/12/16         28/02/17           12         CW Cubert (Intel) ELS DD approval & consent         90 days         01/12/16         28/02/17           13         Sumission & Approval of Steel Flue Design from BD         60 days         29/06/17         27/08/17           14         Submission & Approval of Steel Flue Design from BD         60 days         15/01/17         13/07/17	32					_
6         BIM Model, CSD & CBWD Submission & Approval from HEC         200 days         01/12/16         1806/17           7         Structure Steelwork Shop Drawing & Approval         30 days         15/11/16         14/12/16           8         Structure Steelwork Shop Drawing & Approval         30 days         15/11/16         14/12/16           9         Metal Cladding, Loure & windows submission & BD Approval         60 days         15/11/16         13/01/17           10         Metal Cladding, Loure & windows submission & BD Approval         60 days         13/01/17         11/01/17           10         Order, Off Stle Fabrication and Delivery (S. Steel & Cladding & Loures)         180 days         13/01/17         11/01/17           2         CW Culvert (Intel) ELS BD approval & Consent         90 days         01/12/16         28/02/17           3         Sumission and Approval of Steel Flue Assessment Report and Design Drawings         210 days         27/08/17           4         Submission and Approval         60 days         28/08/17         24/01/18           5         Material Fabrication & Delivery of Foldering Shutters         180 days         15/01/17         13/07/17           7         Fabrication & Delivery of Sewage Pump         15/0 days         15/01/17         13/07/17           8         Sewage P						
66       BiN Model, CSD & CBWD Submission & Approval from HEC       200 days       01/12/16       1806/17         71       Structure Steelwork Connection Design Submission & BD Approval       30 days       15/11/16       14/12/16         189       Structure Steelwork Shop Drawing & Approval       30 days       15/11/16       14/12/16         199       Metal Cladding, Louve & windows submission & BD Approval       60 days       15/11/16       12/01/17         100       Metal Cladding, Louve & windows submission       45 days       2/01/11/16       12/01/17         11       Order, Off Site Fabrication and Delivery (S. Steel & Cladding & Louves)       180 days       01/12/16       28/02/17         12       CW Culvert (Intely ELS BD approval a Sonsent       90 days       01/12/16       28/02/17         13       Sumission at Approval of Steel Flue Design from BD       60 days       29/06/17       27/08/17         14       Submission Approval of Steel Flue Design from BD       60 days       29/06/17       24/01/18         15       Haterial Fabrication & Delivery of Foldering Shutters       180 days       15/01/17       13/07/17         16       Folding Shutters Shop Shop Save Shop Shop Save Shop Shop Shop Shop Shop Shop Shop Shop	35	BD Approval & Consent (If required)	90 days	01/12/16	28/02/17	
7       Structure Steelwork Connection Design Submission & BD Approval       30 days       15/11/16       14/12/16         8       Structure Steelwork Shop Drawing & Approval       00 days       15/11/16       14/12/16         9       Metal Cladding, Jouvre & windows submission & BD Approval       00 days       15/11/16       14/12/16         0       Metal Cladding, Jouvre & windows submission & BD Approval       00 days       15/11/16       13/01/17         0       Metal Cladding, Jouvre & windows submission & BD Approval       00 days       10/11/16       12/01/17         1       Order, Off Site Fabrication and Delivery (S. Steel & Cladding & Jouvres)       180 days       01/12/16       28/00/17         2       CW Culvert (Intel) ELS BD approval & consent       90 days       01/12/16       28/00/17         3       Sumission and Approval of Steel Flue Assessment Report and Design Drawings       200 days       21/01/17       14/01/17         4       Submission & Approval of Steel Flue Assessment Report and Design Drawings       15/01/17       13/01/17       14/01/17         5       Material Fabrication & Delivery for L10 Flue       60 days       15/01/17       15/01/17       15/01/17         6       Fabrication & Delivery of Foldering Shutters       160 days       15/01/17       15/00/17       15/01/17						
8         Structure Steelwork Shop Drawing & Approval         30 days         15/11/16         14/12/16           9         Metal Cladding, louvre & windows submission & Dapproval         60 days         15/11/16         13/01/17           0         Metal Cladding, louvre & windows submission & Dapproval         60 days         15/11/16         13/01/17           1         Order, Off Sile Fabrication and Delivery (S. Steel & Cladding & louvres)         160 days         01/12/16         28/00/17           2         OW Culvert (Intel) ELS B0 approval of Steel Flue Assessment Report and Design Drawings         210 days         01/12/16         28/00/17         27/08/17           3         Sumission and Approval of Steel Flue Design from BD         60 days         29/06/17         27/08/17         27/08/17           4         Submission and Approval of Steel Flue Design from BD         60 days         15/01/17         13/07/17         6           6         Folding Shutters Shop Drawing Submission & Approval         45 days         01/01/17         14/01/17           7         Fabrication & Delivery of Sewage Pump         15/01/17         15/03/17         15/03/17           6         Coordination with the Employer's Specialist Contractors         78 days         01/01/17         15/03/17           7         Fabricatin & Delivery of Secalisit Contract						
9         Metal Cladding, louvre & windows submission & BD Approval         60 days         15/11/16         13/01/17           0         Metal Cladding, louvre & windows submission & BD Approval         60 days         20/11/18         12/01/17           0         Metal Cladding, louvre & windows submission and Delivery (S. Steel & Cladding & louvres)         180 days         13/01/17         11/07/17           2         CW Culvert (Inlet) ELS BD approval & consent         90 days         01/12/16         28/02/17           3         Sumission & Approval of Steel Flue Design from BD         60 days         20/06/17         27/08/17           4         Submission and Approval of Steel Flue Design from BD         60 days         29/06/17         27/08/17           5         Material Fabrication & Delivery (I - Tol Flue         150 days         15/01/17         13/07/17           6         Folding Shutters Shop Drawing Submission & Approval         16/0 days         15/01/17         13/07/17           7         Fabrication & Delivery of Foldering Shutters         18/0 days         15/01/17         13/07/17           8         Sewage Pump System Design submission & Approval         16/0 days         16/03/17         12/08/17           1         Coordination with the Employer's Specialist Contractors         73/0 days         01/11/16         31/01/						
0         Metal Cladding, louvre & windows shop drawing submission         45 days         29/11/16         120117           1         Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)         180 days         130117         1107/17           2         CW Culvet (Intel; ELS BD approval & Steel & Cladding & louvres)         90 days         01/12/16         28/02/17           3         Sumission a A Approval of Steel Flue Assessment Report and Design Drawings         210 days         01/12/16         28/06/17           4         Submission and Approval of Steel Flue Design from BD         60 days         29/06/17         24/06/17           5         Material Fabrication & Delivery for L10 Flue         150 days         28/08/17         24/01/18           6         Folding Shutters Shop Drawing Submission & Approval         45 days         01/12/16         14/01/17           7         Fabrication & Delivery of Foldering Shutters         180 days         15/01/17         15/03/17         15/03/17           8         Sewage Pump System Design submission & Approval & Delivery         150 days         15/01/17         11/09/17           10         Other Material Submission & Approval & Delivery         240 days         15/01/17         11/09/17           2         Puddle Pipes at C.W. Inlet and Outlet Culvert         0 days <t< td=""><td></td><td></td><td></td><td>15/11/16</td><td>13/01/17</td><td></td></t<>				15/11/16	13/01/17	
1         Order, Off Site Fabrication and Delivery (S. Steel & Clading & louvres)         180 days         130/1/7         11/07/17           2         CW Culvert (Inlet) ELS BD approval & consent         90 days         01/12/16         28/02/17           3         Sumission & Approval of Steel Flue Assessment Report and Design Drawings         210 days         01/12/16         28/02/17           4         Submission and Approval of Steel Flue Design from BD         60 days         29/06/17         27/08/17           5         Material Fabrication & Delivery of Steel Flue Design from BD         60 days         01/12/16         14/01/17           6         Folding Shutters Shop Drawing Submission & Approval         45 days         01/12/16         14/01/17           7         Fabrication & Delivery of Foldering Shutters         80 days         15/01/17         13/07/17           8         Sewage Pump System Design submission & Approval         60 days         15/01/17         12/08/17           10         Other Material Submission & Approval & Delivery S         24/0 days         15/01/17         11/09/17           11         Coordination with the Employer's Specialist Contractors         730 days         01/11/16         31/10/18           2         Puddle Pipes at C.W. Inter and Outle Culvert         0 days         01/10/17         14/11/17 <td>0</td> <td></td> <td></td> <td>29/11/16</td> <td>12/01/17</td> <td></td>	0			29/11/16	12/01/17	
3       Sumission & Approval of Steel Flue Assessment Report and Design Drawings       210 days       01/12/16       28/06/17       27/08/17         4       Submission and Approval of Steel Flue Design from BD       60 days       29/06/17       27/08/17         5       Material Fabrication & Delivery of Dr L10 Flue       150 days       28/06/17       24/01/18         6       Folding Shutters Shop Drawing Submission & Approval       45 days       01/12/16       14/01/17         7       Fabrication & Delivery of Foldering Shutters       180 days       15/01/17       13/07/17         8       Sewage Pump System Design submission & Approval       60 days       16/03/17       12/08/17         9       Fabrication & Delivery of Swage Pump       150 days       16/03/17       12/08/17         10       Other Material Submission & Approval & Deliverys       240 days       15/01/17       11/09/17         11       Coordination with the Employer's Specialist Contractors       730 days       01/10/17       14/11/17         12       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       01/10/17       14/11/17         14       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         14       Template setting of holding down bolts at HRSG Column Bat		Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)		13/01/17	11/07/17	
4       Submission and Approval of Steel Flue Design from BD       60 days       29/06/17       27/08/17         5       Material Fabrication & Delivery for L10 Flue       150 days       28/08/17       24/01/18         6       Folding Shutters Shop Drawing Submission & Approval       45 days       01/12/16       14/01/17         7       Fabrication & Delivery of Foldering Shutters       180 days       15/01/17       15/03/17         8       Sewage Pump System Design submission & Approval       60 days       15/01/17       15/03/17         9       Fabrication & Delivery of Sewage Pump       150 days       16/03/17       12/08/17         0       Other Material Submission & Approval       60 days       0/11/16       31/10/18         1       Coordination with the Employer's Specialist Contractors       730 days       0/11/16       31/10/18         2       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       0/70/1/7       0/70/1/7       0/70/1/7         3       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         4       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area						
5       Material Fabrication & Delivery for L10 Flue       150 days       28/08/17       24/01/18         6       Folding Shutters Shop Drawing Submission & Approval       45 days       01/12/16       14/01/17         7       Fabrication & Delivery of Foldering Shutters       180 days       15/01/17       13/07/17         8       Sewage Pump System Design submission & Approval       60 days       15/01/17       15/03/17         9       Fabrication & Delivery of Sewage Pump       150 days       16/03/17       12/08/17         0       Other Material Submission & Approval & Deliverys       240 days       15/01/17       11/09/17         10       Coordination with the Employer's Specialist Contractors       730 days       01/11/16       31/10/18         2       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       07/01/17       07/01/17         3       Template setting in at L10 Turbo Block Foundation       45 days       01/10/17       14/11/17         4       Template setting of holding down boits at HRSG Column Base       45 days       01/10/17       14/11/17         4       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 With Bac Access through a Temporary Opening at L10 With Bac Access through a Temporary Opening at L10/17       27/01/18         6       Overhead Crane Er						
6       Folding Shutters Shop Drawing Submission & Approval       45 days       01/12/16       14/01/17         7       Fabrication & Delivery of Foldering Shutters       180 days       15/01/17       13/07/17         8       Sewage Pump System Design submission & Approval       60 days       15/01/17       15/03/17         9       Fabrication & Delivery of Sewage Pump       150 days       16/03/17       12/08/17         0       Other Material Submission & Approval & Deliverys       240 days       15/01/17       11/09/17         16       Coordination with the Employer's Specialist Contractors       730 days       01/11/16       31/10/17         2       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       07/01/17       07/01/17         3       Template setting in at 1.10 Turbe Block Foundation       45 days       01/10/17       14/11/17         4       Template setting of holding down boils at HRSG Column Base       45 days       01/10/17       14/11/17         4       Deverhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10/12/2 and 10-6       38 days       27/12/17       18/01/18						-1
7       Fabrication & Delivery of Foldering Shutters       180 days       15/01/17       13/07/17         8       Sewage Pump System Design submission & Approval       60 days       15/01/17       15/03/17         9       Fabrication & Delivery of Sewage Pump       150 days       16/03/17       12/08/17         9       Fabrication & Delivery of Sewage Pump       150 days       16/03/17       12/08/17         0       Other Material Submission & Approval       Deliverys       240 days       15/01/17       11/09/17         1       Coordination with the Employer's Specialist Contractors       730 days       01/11/16       31/10/18         2       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       07/01/17       07/01/17         3       Template setting in at L10 Turbo Block Foundation       45 days       01/10/17       14/11/17         4       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area       32 days       27/12/17       27/01/18         6       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6       38 days       12/12/17       18/01/18						-1
8       Sewage Pump System Design submission & Approval       60 days       15/01/17       15/03/17         9       Fabrication & Delivery of Sewage Pump       150 days       16/03/17       12/08/17         0       Other Material Submission & Approval & Deliverys       240 days       15/01/17       11/09/17         1       Coordination with the Employer's Specialist Contractors       730 days       01/11/16       31/10/18         2       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       07/01/17       07/01/17         3       Template setting in at L10 Turbo Block Foundation       45 days       01/10/17       14/11/17         4       Template setting of holding down boits at HRSG Colume Base       45 days       01/10/17       14/11/17         5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area       32 days       27/12/17       27/01/18         6       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6       38 days       12/12/17       18/01/18						-1
9       Fabrication & Delivery of Sewage Pump       150 days       16/03/17       12/08/17         0       Other Material Submission & Approval & Deliverys       240 days       15/01/17       11/09/17         1       Coordination with the Employer's Specialist Contractors       730 days       01/11/16       31/10/18         2       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       07/01/17       07/01/17         3       Template setting in at L10 Turbo Block Foundation       45 days       01/10/17       14/11/17         4       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area       32 days       27/12/17       27/01/18         6       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 NSB Roof between GL 10-G to 10-H and 10-2 and 10-6       38 days       12/12/17       18/01/18						
0       Other Material Submission & Approval & Deliverys       240 days       15/01/17       11/09/17         1       Coordination with the Employer's Specialist Contractors       730 days       01/11/16       31/10/18         2       Puddle Pipes at C.W. Inlet and Outlet Culvert       0 days       07/01/17       41/11/17         3       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         4       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area       32 days       27/12/17       27/10/18         6       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 UNSB Roof between GL 10-G to 10-H and 10-2 and 10-6       38 days       12/12/17       18/01/18						
1     Coordination with the Employer's Specialist Contractors     730 days     01/11/16     31/10/18       2     Puddle Pipes at C.W. linet and Outlet Culvert     0 days     07/01/17     07/01/17       3     Template setting in at L10 Turbo Block Foundation     45 days     01/10/17     14/11/17       4     Template setting of holding down bolts at HRSG Column Base     45 days     01/10/17     14/11/17       5     I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area     32 days     27/12/17     27/01/18       6     Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6     38 days     12/12/17     18/01/18						
2     Puddle Pipes at C.W. Inlet and Outlet Culvert     0 days     07/01/17       3     Template setting in at L10 Turbo Block Foundation     45 days     01/10/17       4     Template setting of holding down bolts at HRSG Column Base     45 days     01/10/17       5     I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area     32 days     27/12/17       6     Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6     38 days     12/12/17						
3       Template setting in at L10 Turbo Block Foundation       45 days       01/10/17       14/11/17         4       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area       32 days       27/12/17       27/10/18         6       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6       38 days       12/12/17       18/01/18						-1
4       Template setting of holding down bolts at HRSG Column Base       45 days       01/10/17       14/11/17         5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area       32 days       27/12/17       27/01/18         6       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6       38 days       12/12/17       18/01/18						-1
5       I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area       32 days       27/12/17       27/01/18         6       Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6       38 days       12/12/17       18/01/18						-1
L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6						
	3		38 days	12/12/17	18/01/18	
Condenser Assembly and Erection using Access through a Temporary Opening at L10 MSE 89 days 01/02/18 30/04/18 below 1/F along GL 10-B to 10-C including a Clear Space below 1/F between GL 10-B to 10-C		Condenser Assembly and Erection using Access through a Temporary Opening at L10 MSE below 1/F along GL 10-6 from GL 10-B to 10-C including a Clear Space below 1/F between	89 days	01/02/18	30/04/18	

Image: Second Control of USE Second T and T	ntra	ct No. 16/8002 Lamma Power Station Extension Civil and Building Unit L10								Master F
Point of Allower for a support multiply of ME (Current Allower Support and Allower Support All	) T	ask Name	Duration	Start	Finish	E I	8.4	۸	м	
Expose its Registion Foundation by the Contrast         Units of the Contrast of the Contre Contrast of the Contrast of the Contrast of the Co	;	Temporary Façade Opening at L10 MSB below 1/F along GL 10-6 from GL 10-F to 10-H	89 days	01/02/18	30/04/18		IVI	A	IVI	J
Process to the stand Product and the control of the contro	9		78 days	15/08/18	31/10/18					
2         Longing Prints formout         18 doing         001116         19 1116           4         Wall loss of Prints formout         64 doing         11111           7         Desting and Staff Oldschrubin King         110 doing and Staff Oldschrubin King         110 doing and Staff Oldschrubin King           8         Desting and Staff Oldschrubin King         110 doing and Staff Oldschrubin King         110 doing and Staff Oldschrubin King           9         Desting and Staff Oldschrubin King         110 doing and Staff Oldschrubin King         110 doing and Staff Oldschrubin King           9         Desting and Yesh Oldschrubin King         110 doing and Staff Oldschrubin King         110 doing and Staff Oldschrubin King           9         Desting and Staff Oldschrubin King         110 doing and Staff Oldschrubin King         110 doing and Staff Oldschrubin King           0         Desting and Mark Cine         0 doing         0 doing         0 doing         0 doing           1         Desting and Mark Cine         0 doing         0 doing         0 doing         0 doing           1         Desting and Mark Cine         0 doing         0 doing         0 doing         0 doing           1         Desting and Mark Cine         0 doing         0 doing         0 doing         0 doing           1         Desting and Mark Cine<	D	Installation of Embedded Materials such as Holding Down Bolts for Equipment Foundation	300 days	01/11/16	27/08/17					
3         Web Size A Funct Construction         46 days         1991/10         31791/6           9         Proc Read a Laboration Not only only only only only only only only	1	Section A1 - Modify Plinth at Ext. GRS	61 days	01/11/16	31/12/16					
Pipe Reak at Mith North Volusting Bio Real         102 data         200/17         300/17         200/17	2									
Concernance BANG Bandhardsham         Optime Description         Solition         Solition         Solition         Solition           Present Concernance BANG Bandhardsham         60 days         Concernance BANG Bandhardsham         60 days         Concernance BANG Bandhardsham         Concernance BANG Ban	3					-				
intering & Petritoxi (and mathematical and mathematical						19/01				
7         Profile Costsuction & Residence Networks         60 699         702077         70447           8         Status Costs & Residence Networks         60 699         600000         9000000         9000000         9000000         9000000         9000000         9000000         9000000         9000000         9000000         9000000         9000000         90000000000         9000000000000000000000000000000000000						25/01				
8         Section 2.4: Proceedings of the section 2.4: Proceed										
0         Schwartskin of Sho Dinking an Agroval         90 stym         200117           0         Schwartskin of Sho Dinking an Agroval         00 stym         00117         200117           0         Dendish of existing as of Sho         01 stym         100117         100117           0         Dendish of existing as of Sho         0 days         011118         2011178           0         Both Show Show         0 days         011118         2011178           0         Both Show Show         0 days         011118         011118           0         Both Show Show         1 days         011118         011118           0         Both Show Show         1 days         011118         011118           0         Both Show Show         1 days         0 days         011118           0         Matteroof Show Show         1 days         0 dool 1 days         011118           0         Matteroof Show Show         1 days         0 dool 1 days         000117           0         Chence Nerview         1 days         0 dool 1 days         000117           0         Chence Nerview         1 days         0 dool 1 days         0 dool 1 days           0         Chence Nerview         1 days         0										
Submisso & Approvide (CS) & CE/Vio         60 days	9	Section A2 - LPS Site Office Building	410 days	01/11/16	15/12/17	×				
0         Origins situ dealance of wells         0 dogs         011110         011110         011110           0         Dealogins of calculate define         7 dogs         011110         011110         011110           2         Dealogins of calculate define         7 dogs         011110         011110         011110           2         Dealogins of calculate define         7 dogs         011110         011110         011110           2         Dealogins of Calculate define         7 dogs         011110         011110         011110           2         Dealogins of Calculate define         0109         0011110         0011110         0011110           2         Dealogins of Calculate define         0109         0001117         200117         000117         200117           3         Dealogins de Lina 1- Weller defan         0109         0002171         200117										
3         Dencies of extent gate doine         21 doine         011116         011116         011116           Bs 10 doined         7 doine         011116         011116         011116         011116           Bs 10 doined         7 doine         011116         11116										
Bit 0 Application*         0 abys         011116         011116         011116           Beckon Herding         7 days         011116         011116         141106           Construction of ad const, paring will, cultures up to GF         46 days         011116         141106           Construction of ad const, paring will, cultures up to GF         46 days         020117         160117           Construction of ad const, paring will, cultures up to GF         46 days         020117         160117           Construction of ad const, paring will, cultures up to GF         46 days         020017         160117           Construction of ad const, paring will, cultures up to GF         46 days         020017         04017           Construction of anges at ab a fasting to IF         46 days         200017         040777           Construction of add const, paring will, cultures up to GF         46 days         200077         040777           Construction of mark as Statis to IF         46 days         200077         100777           Construction of mark as Statis to IF         46 days         200077         100777           Construction of mark as Statis to IF         46 days         200077         100777           Construction of mark as Statis to IF         46 days         2000777         100777						-				
5         Fondor of Looking         7 days         0071116         071116           6         Prote Loading         7 days         0011114         171116         071116           7         Prote Loading         7 days         0011114         071116         071116           7         Prote Loading         7 days         0011114         071116         071116           7         Prote Loading         7 days         001117         100117         100117           8         Prote Loading         7 days         000117         200117         200117           8         Prote Loading         100117         200117         200117         200117           8         Prote Loading         100117         200117         200117         200117           9         Prote Loading         100117         200117         200117         200117         200117           10         Prote Loading         100114         200117         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171         200171 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></td<>						-				
P         Period         Table Load Test <sup>1</sup> Table Load Test <sup>1</sup> Table Load Test <sup>1</sup> 1         Head Selation Centres         50 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)						-1				
V         Instalation of Earthing Ord         18 dogs         1911/10         0212/10           Construction of earthing for Lift at the test east         16 dogs         0201/17         1200/17           Construction of earthing for Lift at the test east         16 dogs         0201/17         1200/17           Construction of earthing for Lift at the test east         16 dogs         0201/17         1200/17           Construction of earthing of earthing for Lift at the test east         10 dogs         200/17         1200/17           Construction of earthing of earthing for Lift at the test east         10 dogs         200/17         1200/17           Construction of earthing of earthing for Lift at the test east         10 dogs         200/17         1200/17           Construction of earthing of earthing for Lift at the test east         10 dogs         200/17         200/17           Construction of earthing of earthing for Lift at the test east         12 dogs         000/17         200/17         200/17           Construction of earthing for Lift at the test east         12 dogs         000/17         1200/17         100/17           Construction of earthing for Lift at test east         12 dogs         000/17         100/17         100/17           Construction of earthing for Lift at test east east         12 dogs         000/17         100/17 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>						-				
Construction of pate foring, bearing well, columns up to GF         46 days         09/12/16         160/117           Wategroods Cult of the Well         14 days         09/117         200/117         200/117           Construction of pate foring         14 days         09/017         200/117         200/117           Construction of Construction of the Schemel Scaledol Erection         30 days         06/00/17         05/00/17           Construction of Construction of the Schemel Scaledol Erection         30 days         06/00/17         05/00/17           Construction of Construction of the Schemel Scaledol Erection         30 days         06/00/17         05/00/17           Construction of Construction of the Schemel Scaledol Erection         30 days         06/00/17         05/00/17           Construction of Rest Schemel Scaledol Erection         30 days         06/00/17         05/00/17           Construction of Rest Schemel Scaledol Erection         30 days         06/00/17         05/00/17           Construction of Rest Schemel Scaledol Erection         30 days         06/00/17         00/01/17           Construction of Rest Schemel Scaledol Erection         30 days         06/00/17         00/01/17           Construction Schemel Schemel Schemel Scaledol Erection         30 days         06/00/17         00/01/17           Construction Sche										
Wateproofs pic Lift pic Valuer (est UG Damage with Building Lift dags               14 dags             000171             200177             2000177             200177             200177             200177						-				
U C Drivings with Building         21 days         0001/77         2501/77           Backill Shinding         14 days         1501/77         2501/77           C Drivings With Building         14 days         1501/77         2501/77           C RV Walk, Column and Shan pio IvF         45 days         2001/77         2500/77           F RV Walk, Column and Shan pio IvF         45 days         2001/77         2500/77           G P Fangh Writs         55 walts Tin, Top Robe + HC out, hatth door etc         45 days         2006/77         2400/77           G GP Fangh Writs         45 days         2006/77         2400/77         2400/77         2400/77           G GP Fangh Writs         45 days         2006/77         2400/77         2400/77         2400/77           G GP Fangh Writs         45 days         2400/77         2400/77         2400/77         2400/77         2400/77         2400/77           G GP Fangh Writs         45 days         2400/77										
1         Backli & Binding         14 days         1300/17         260/17           2         Christes DK* Yeig*         0.00 bys         260/17         0.000/17         0.000/17           2         Christes DK* Yeig*         0.00 bys         260/17         0.000/17         0.000/17           3         Cohristes DK* Yeig*         0.00 bys         260/17         0.000/17         0.000/17           4         Cohristes DK* Yeig*         0.00 bys         260/17         0.000/17         0.000/17           5         RC Visits, Cowne and Sila bys to FF         4.5 days         0.000/17         24.0017           6         GF Window, Lowne, Doors France B. Shuttle France         2.6 days         0.000/17         1.000/17           0         GF GF Window, Shiftes France         1.6 days         1.000/17         1.000/17           0         GF GF Window, Shiftes France         1.6 days         1.000/17         1.000/17           0         GF GF Window, Shiftes France         1.000/17         1.000/17         1.000/17           1         FP Window, Shiftes France         1.000/17         1.000/17         1.000/17           1         FP Window, Shiftes France         2.000/17         1.000/17         1.000/17           1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>						-				
3         Construct GF on-grade side & External Scalabol Erection         30 days         060/2/7         070/17           4         RC Walls, Column and Sala up to NF         44 days         060/4/7         050/4/7           5         RC Walls, Column and Sala up to NF         44 days         060/4/7         050/4/7           6         RC Walls, Column and Sala up to NF         44 days         060/4/7         050/4/7           7         Rome Walls, SV Matar Tain Yone & Studer Frame         44 days         100/7/7         010/7/7           8         0.GF Franking Works         03 days         06/07/7         010/7/7         010/7/7           0         0.GF Stantary Fitting and Colubies         12 days         010/7/7         010/7/7         010/7/7           1         0.GF Stantary Fitting and Colubies         12 days         010/7/7         010/7/7         010/7/7           1         GF Demotry and Yontal mainternet         14 days         010/7/7         00/07/7         010/7/7           1         Franking Works         00 days         16/07/7         16/00/7/7         17/07/7           1         Franking Works         00 days         00/7/7         15/00/7         16/07/7           2         PF Demotry and Andral All days         00 days										
4         HC Walls, Column and Silue to InF         45 daya         6004/17         2005/17         200	2	Chinese New Year	10 days	27/01/17	05/02/17					
6         Prange Wurk         45 days         2009/17           6         Prange Wurk         100 port         2009/17         2009/17           7         6 FF Window, Loure, Doors Frane & Sthuter Frane         21 days         0405/17         2009/17           8         6 FF Prinching & Trainage Works         30 days         020/17/1         0107/17           9         6 FF Prinching & Trainage Works         30 days         020/17/1         0107/17           9         6 FF Prinching & Trainage Works         30 days         020/17/1         0107/17           9         6 FF Prinching & Trainage Works         30 days         030/17/1         0107/17           1         FF Wordow, Loure & Soor Franes         30 days         030/17/1         1707/17           1         FF Prinching Sontary Fiftings & Trainage Works         14 days         30/09/1         30/09/1           1         FF Prinching Works ind         41 days         20/107/1         31/001/1         20/001/1           1         FF Prinching Works ind         14 days         20/01/1         31/001/1         20/01/1           1         FF Prinching Works ind         14 days         20/01/1         20/01/1         20/01/1           1         FF Prinner Works ind <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
6         Parapet Wait, FS Water Tank, Top Roots + RC outs, hatch door etc.         45 days         210497         040717           7         GFW Moky, Louver, Doors Tame & Shuller Frame         45 days         040517         240617           3         GF Finshing Works         45 days         010717         310717           3         GF Finshing Works         45 days         220717         310717           1         GF Finshing Works         45 days         2209177         100717           1         GF Finshing Works         45 days         2209177         100717           1         GF Finshing Works         45 days         2209177         101717           3         UF Finshing Works         00 days         180717         106177           3         UF Window, Loure & Door Frames         00 days         180717         100817           4         UF Finshing Works (nd. Water Tank & FD Pump Room)         30 days         100717         101017           3         UF Finshing Works (nd. Water Tank & FD Pump Room)         30 days         020717         101017           3         UF Finshing Works (nd. Water Tank & FD Pump Room)         30 days         020717         101017           3         UF Finshing Works (nd. Water Tank & FD Pump Room) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
7         OF Window, Loure, Doors Frame & Shufter Frame         21 days         0-00/17         24/06/17           8         OF Flanishing Works         30 days         200/17         31/07/17         31/07/17           1         OF Flanishing Works         30 days         200/17         31/07										
8         GF Finshing Works         45 dysg         100/117         0.107/17           9         GF Pinshing Works         21 dysg         0.207/17         21/08/17           1         GF Orbitality Filling and Cubicles         21 dysg         0.207/17         21/08/17           1         GF Orbitality Filling and Cubicles         21 dysg         0.207/17         21/08/17           1         GF Orbitality Filling and Cubicles         21 dysg         0.207/17         21/08/17           1         GF Orbitality Filling And Cubicles         10 dysg         0.207/17         10/07/17           1         GF Orbitality Filling And Cubicles         10 dysg         0.207/17         10/07/17           1         GF Orbitality Filling And Cubicles         10 dysg         0.200/17         10/07/17           1         GF Finishing Works (nd. Warts Tark AFS Hump Room)         30 dysg         0.200/17         10/07/17         10/00/17           1         Complete Chuich up an dindvoer dif and         7 dysg         0.200/17         10/01/17         10/01/17           2         Complete Chuich up an dindvoer dif and         7 dysg         0.200/17         10/01/17         10/01/17           2         Complete Chuich up an dindvoer dif andal         2 dysg         0.200/17										
9         Orr Plumbing & Drainage Works         30 days         000717         3107/17           10         Gir S andinay Pitting and Choicles         21 days         0010817         210817           11         Gir G other sundy metal, raling, etc.         45 days         200817         0510817           11         Gir F Jumbing & Dornage Works         30 days         04/12/17         131217           11         Firsting Works         30 days         1800171         100817           11         Firsting Works         30 days         1800171         100817           11         Firsting Works         30 days         1800171         100817           11         Firsting Works         30 days         1000171         1008017           12         RV Horks (incl. Water Tark & FS Pump Room)         30 days         200817         0110017           12         RV Horks (incl. Water Tark & FS Pump Room)         30 days         202017         151017           12         Comptee Rody Metal, Handrail G Glazed Raling         30 days         202017         1510017           12         Comptee Rody Metal, Handrail G Glazed Raling         21 days         171017         17117           12         Horks Instalont on Dona AS Nutter kats         21 days						-				
0       GF Santary Fitting and Cubicles       21 days       210017       210017         1       GF Orber sundry metal, raling, etc       45 days       2200817       691017       191217       191917       200817       200817       200817       201017       191117       191117       191117						-				
1         G/F Other sundry metal, railing, etc.         45 days         209/17           2         G/F Placing Fundtures         10 days         04/12/17         13/12/17           3         1/F Window, Louve & Door Frames         30 days         1800/17         17/10/17           4         1/F Funding, Santary Fittings & Drainage Works         31 days         1800/17         2008/17           5         1/F Funding, Santary Fittings & Drainage Works         11 days         3100/17         2008/17           6         7/F Funding, Santary Fittings & Drainage Works         11 days         3100/17         2008/17           7         1/F Funding, Santary Fittings & Drainage Works         11 days         3100/17         2008/17           8         RF Finishing Works (nd. Water Tank & SP Punp Room)         30 days         20/10/17         31/10/17           0         R.F Funding Kote (nd. Water Tank & SP Punp Room)         30 days         20/20/17         31/10/17           1         Complete RC touch up ant handover of lin shaft         7 days         22/80/17         19/11/17           2         Instalation         90 days         17/00/17         19/11/17           3         Lit, Instalation         90 days         17/00/17         19/11/17           4         Ed						-				
2       G/F Placing Funditures       10 days       10 / 12/17       13/12/17         3       1/F Window, Louve & Boor Franes       30 days       1800/17       1700/17         4       1/F Finishing Works       30 days       1800/17       1600/17         5       1/F Putening Works       30 days       1800/17       1600/17         6       1/F Other sundy metal, raling, etc       21 days       1900/17       2000/17         7       R-UBX Waterrooffing Installation + Testing       60 days       1907/17       1600/17         8       R/F Finishing Works (nd. Water Tark & FS Pump Room)       30 days       1907/17       1000/17         0       R/F Sinshing Works (nd. Water Tark & FS Pump Room)       30 days       100/17       01/00/17         0       R/F Sinshing Works (nd. Water Tark & FS Pump Room)       30 days       10/00/17       01/00/17         10       R/F Sinshing Works (nd. Water Tark & FS Pump Room)       30 days       10/00/17       01/00/17         11       Installation of Doora S Sinshing Works       21 days       00/01/11       21/01/17         12       Installation of Doora S Sinshing Works       42 days       02/01/17       14/01/17         13       Lut Installation of Sind Low di Karb Marero (na Karb Marero (na Karb Marero (na Karb Ma						-				
4         1/F Finishing Works         30 days         1800/17         1800/17           5         1/F Pumbing, Sanitary Fittings & Drainage Works         14 days         1700/17         1800/17           6         1/F Other sundry metal, railing, etc         21 days         3100/17         2000/17           7         R-URK Waterprofing Installation + Testing         60 days         100/17         16/00/17           8         R/F Finishing Works (incl. Water Tank & FS Pump Room)         30 days         02/00/17         10/10/17           9         R/F Pumbing Works         7 days         20/01/17         10/10/17           10         Complete Ro touch up and handower of fith shaft         7 days         20/11/17         10/10/17           11         Complete Ro touch up and handower of fith shaft         7 days         20/11/17         10/11/17           12         Installation + EMSD Inspection + Issue of Lift Cert         12/0 days         02/01/17         11/01/17           13         Lift Installation         50 days         11/00/17         14/11/17           14         Electrial Installation         50 days         11/01/17         14/11/17           15         Fire Service Installation         50 days         02/101/17         15/11/17           16	2									
5       1/F Plumbing, Santary Fittings & Drainage Works       14 days       31/08/17       30/08/17         6       1/F Other sundry metal, raling, etc       21 days       31/08/17       20/09/17         7       R+URF Wateryoofing installation + Testing       60 days       02/09/17       11/00/17         9       R/F Flumbing Works       14 days       02/01/7       15/10/17         9       R/F Flumbing Works       14 days       02/01/7       15/10/17         10       Complete RC touch up and handover of lift shaft       7 days       02/01/7       01/08/17         21       Installation - HSMO Inspection + Issue of Lift Cert       120 days       02/01/17       11/11/17         24       Lift installation       90 days       17/08/17       14/11/17         24       Electrial installation       90 days       17/08/17       14/11/17         24       Electrial installation       90 days       17/08/17       14/11/17         24       Electrial installation       90 days       05/07/17       28/11/17         26       Electrial installation       16 days       06/07/17       28/11/17         27       Testing & Commissioning Works       14 days       06/07/17       28/11/17         26       El	3		30 days		17/07/17					
6         1/F Other sundry metal, railing, etc         21 days         3100/17         2000/17           7         R+URF, Waterprofing Installation + Fesing         60 days         100/17         16/09/17           8         R/F Finishing Works (ncl. Water Tank & FS Pump Room)         30 days         02/01/17         15/10/17           9         RVF Funishing Works         14 days         02/01/17         15/10/17           10         Complete RC tooch up and handrover of this shaft         7 days         220/01/17         15/10/17           11         Complete RC tooch up and handrover of this shaft         7 days         220/01/17         15/10/17           12         Installation + FMS Dispection + Issue of Lift Cert         12/0 days         02/08/17         10/10/817           13         Lift Installation + FMS Dispection + Issue of Lift Cert         90 days         17/08/17         14/11/17           14         Electrial Installation         90 days         17/08/17         14/11/17           16         Fire Service Installation         90 days         17/08/17         14/11/17           16         Fire Service Installation         90 days         16/11/17         29/11/17           17         Testing & Commissioning Works         44 days         06/01/11/17         29/11/17 <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	4									
7         R+UR/F Waterpooling Installation + Testing         60 days         1907/17         1609/17           8         R/F Finishing Work (onic, Water Tank & FS Pump Room)         30 days         2020/17         101/017           9         R/F Plumbing Work (onic, Water Tank & FS Pump Room)         30 days         2020/17         151/017           9         R/F E Plumbing Work (onic, Water Tank & FS Pump Room)         30 days         2020/17         151/017           9         R/F E Plumbing Work (onic, Water Tank & FS Pump Room)         30 days         2020/17         151/017           9         R/F E Plumbing Work (onic, Water Tank & FS Pump Room)         30 days         2020/17         151/017           9         Installation of Door ads Shutter leads         21 days         201/117         141/117           10         E bettenil Installation         90 days         1708/17         141/117           10         E bettenil Watel Finishipm Works         24 days         1551/117         269/117           10         E bettenil Watel Finishipm Works         24 days         161/117         29/117           10         External Watel Finishipm Works         0 days         269/117         26/1117           11         WWOR46 Completion         0 days         30/1117         13/12/17						-1				
8         R/F Finishing Works (incl. Water Tank & FS <sup>P</sup> ump Room)         30 days         02/09/17         01/10/17           9         R/F Fumbing Works         14 days         02/10/17         15/10/17           10         Complete RC touch up and handvoer of lift shaft         7 days         02/10/17         11/10/17           12         Installation of Door a& Shutter teafs         21 days         01/10/17         21/11/17           13         Lift Installation + EMSD Inspection + Issue of Lift Cert         120 days         02/09/17         14/11/17           14         Electrial Installation         90 days         17/08/17         14/11/17           15         Fire Service Installation         90 days         17/08/17         14/11/17           16         MVAC Installation         90 days         17/08/17         14/11/17           17         Testing & Commissioning Works         24 days         15/11/17         06/12/17           17         Testing & Commissioning Works         14 days         06/11/17         29/11/17           18         Externel Wall Finishing Works         0 days         06/11/17         26/11/17           19         Removal of Scaffolding         0 days         06/11/17         26/11/17           14         Expeectio OP Is						-				
9         R/F Plumbing Works         14 days         02/10/17         15/10/17           0         R/F Stumbing Morks         14 days         02/10/17         31/10/17           1         Complete RC touch up and handower of lift shaft         7 days         20/10/17         10/10/17           1         Installation of Door ads Shutter leafs         21 days         02/10/17         21/11/17           3         Lift Installation of Lift Shaft         12 days         02/10/17         21/11/17           4         Electrial Installation         90 days         17/08/17         14/11/17           6         MVAC Installation         90 days         17/08/17         14/11/17           7         Testing & Commissioning Works         24 days         16/11/17         28/11/17           9         Removal of Scaffolding         14 days         02/10/17         15/11/17           9         Removal of Scaffolding         0 days         01/11/17         28/11/17           11         WWOc46 Completion         0 days         05/07/17         28/11/17         28/11/17           12         FSD Inspection         0 days         0/11/17         13/12/17         28/11/17           14         Expected OP Issue         0 days         0/01										
00         P/F Sundry Metal, Handrail & Glazed Railing         30 days         02/10/17         31/10/17           1         Complete RC toxicu pand handover of lift shaft         21 days         02/10/17         01/10/17           12         Installation + EMSD Inspection + Issue of Lift Cert         120 days         02/08/17         24/11/17           14         Electrial Installation + EMSD Inspection + Issue of Lift Cert         120 days         02/08/17         14/11/17           15         Fire Service Installation         90 days         17/08/17         14/11/17           16         MVAC Installation         90 days         17/08/17         14/11/17           17         Testing & Commissioning Works         24 days         10/11/17         29/11/17           18         External Wall Finishing Works         42 days         10/11/17         29/11/17           18         External Wall Finishing Works         0 days         20/11/17         29/11/17           10         External Wall Finishing Works         0 days         20/11/17         29/11/17           11         WWOd46 Completion         0 days         20/11/17         13/12/17           14         Expected OP Issue         0 days         30/11/17         13/12/17           14         Expec										
1         Complete RC buch up and handover of lift shaft         7 days         2607/17         01/08/17           2         Installation of Door as Shutter leafs         21 days         02/08/17         28/11/17           3         Lift Installation of EMSD Inspection + Issue of Lift Cert         120 days         02/08/17         14/11/17           4         Electrial Installation         90 days         17/08/17         14/11/17           6         MVAC Installation         90 days         17/08/17         14/11/17           6         MVAC Installation         90 days         17/08/17         14/11/17           7         Testing & Commissioning Works         24 days         05/11/17         28/11/17           8         External Wall Finishing Works         14 days         06/11/17         28/11/17           9         Removal of Scaffolding         14 days         06/11/17         28/11/17           1         WWO64 Completion         0 days         30/11/17         13/12/17           1         External Wall Spection         0 days         30/11/17         13/12/17           2         FSD Inspection         0 days         30/11/17         13/12/17           4         Expected OP Issue         0 days         50/12/17 <td< td=""><td>0</td><td>R/F Sundry Metal, Handrail &amp; Glazed Railing</td><td>30 days</td><td>02/10/17</td><td>31/10/17</td><td>1</td><td></td><td></td><td></td><td></td></td<>	0	R/F Sundry Metal, Handrail & Glazed Railing	30 days	02/10/17	31/10/17	1				
3       Lift Installation + EMSD Inspection + Issue of Lift Cert       120 days       02/08/17       29/11/17         4       Electrial Installation       00 days       17/08/17       14/11/17         6       MVAC Installation       90 days       17/08/17       14/11/17         7       Testing & Commissioning Works       24 days       15/11/17       08/12/17         8       External Wall Finishing Works       24 days       05/11/17       16/11/17         9       Removal of Scaffolding       144 days       06/11/17       29/11/17         0       External Wall Finishing Works       145 days       05/07/17       26/11/17         1       WWO46 Completion       0 days       06/11/17       26/11/17         2       FSD Inspection       0 days       06/11/17       26/11/17         3       Submit BA 13 Inspection       0 days       06/11/17       13/12/17         4       Expected OP Issue       0 days       07/02/17       31/12/17         5       Section B1 - Area C1& 20 (-160m)       328 days       07/02/17       31/12/17         7       Exavation to Formation Level (+1.1mPD)       30 days       07/02/17       09/03/17         8       Construction of Binding & Pinth       21 days<			7 days							
4         Electrial Installation         90 days         17/08/17         14/11/17           5         Fire Service Installation         90 days         17/08/17         14/11/17           6         MVAC Installation         90 days         17/08/17         14/11/17           7         Testing & Commissioning Works         24 days         15/11/17         08/12/17           8         External Wall Finishing Works         24 days         02/10/17         15/11/17           9         Removal of Scatfolding         14 days         02/10/17         28/11/17           10         External UG P&D and Road Works         145 days         05/07/17         26/11/17           11         WWO046 Completion         0 days         06/12/17         26/11/17           2         FSD Inspection         0 days         01/12/17         13/12/17           3         Submit BA 13 Inspection         14 days         30/11/17         13/12/17           4         Expected OP Issue         0 days         07/02/17         31/12/17           5         Section B1 - Area C1& 2C1 (-160m)         328 days         07/02/17         31/12/17           6         C.W. Culvert System (Area C1 & C2) (-160m)         328 days         07/02/17         31/12/17						-1				
5       Fire Service Installation       90 days       17/08/17       14/11/17         6       MVAC Installation       90 days       17/08/17       14/11/17         7       Testing & Commissioning Works       24 days       15/11/17       08/12/17         8       External Wall Finishing Works       45 days       02/10/17       15/11/17         9       Removal of Scaffolding       14 days       06/07/17       26/11/17         0       External UG P&D and Road Works       145 days       05/07/17       26/11/17         1       WWO046 Completion       0 days       06/12/17       08/12/17         3       Submit BA 13 Inspection       14 days       03/11/17       13/12/17         4       Expected OP Issue       0 days       15/12/17       15/12/17         5       Section B1 - Area C1& 2. C1/-160m)       32 days       07/02/17       31/12/17         6       C.W. Culver System (Area C1 & C2) (~160m)       30 days       07/02/17       13/12/17         7       Excavation to Formation Level (+1.1mPD)       30 days       07/02/17       13/12/17         8       Construction of Binding & Plinth       21 days       09/03/17       28/03/17         9       Plie Laying       00 days						-1				
6       MVAC Installation       90 days       17/08/17       14/11/17         7       Testing & Commissioning Works       24 days       15/11/17       08/12/17         8       External Wall Finishing Works       45 days       02/10/17       15/11/17         9       Removal of Scaffolding       14 days       16/11/17       29/11/17         0       External UG P&D and Road Works       14 days       05/07/17       26/11/17         1       WWO046 Completion       0 days       06/12/17       08/12/17         2       FSD Inspection       0 days       06/12/17       08/12/17         3       Submit BA 13 Inspection       14 days       30/11/17       13/12/17         4       Expected OP Issue       0 days       107/02/17       31/12/17         5       Section B1 - Area C1& C2) (-160m)       32 days       07/02/17       31/12/17         7       Excavation to Formation Level (+1.1mPD)       30 days       07/02/17       31/12/17         8       Construction of Binding & Plinth       21 days       09/03/17       29/03/17         9       Plie Laying       30 days       07/02/17       19/05/17         0       Thrust Box Construction       21 days       29/04/17       19						-				
77       Testing & Commissioning Works       24 days       15/11/17       08/12/17         18       External Wall Finishing Works       45 days       02/10/17       15/11/17         19       Removal of Scaffolding       14 days       16/11/17       29/11/17         10       External UG P&D and Road Works       145 days       05/07/17       26/11/17         11       WW0046 Completion       0 days       26/11/17       26/11/17         2       FSD Inspection       0 days       08/12/17       08/12/17         3       Submit BA 13 Inspection       14 days       30/11/17       13/12/17         4       Expected OP Issue       0 days       15/12/17       15/12/17         5       Section B1 - Area C1& C2 (-c160m)       328 days       07/02/17       31/12/17         6       C.W. Culvert System (Area C1 & C2 (-c160m)       328 days       07/02/17       08/03/17         7       Excavation to Formation Level (+1.1mPD)       30 days       07/02/17       08/03/17         8       Construction of Binding & Plinth       21 days       09/03/17       29/03/17         9       Pile Laying       30 days       30/03/17       28/03/17         10       Thrust Box Construction       21 days						-				
8         External Wall Finishing Works         45 days         0/2/10/17         15/11/17           9         Removal of Scaffolding         14 days         16/11/17         29/11/17           0         External UG P&D and Road Works         14 days         16/01/17         29/11/17           1         WW0046 Completion         0 days         26/11/17         26/11/17           2         FSD Inspection         0 days         08/12/17         08/12/17           3         Submit BA 13 Inspection         14 days         30/11/17         13/12/17           4         Expected OP Issue         0 days         15/12/17         15/12/17           5         Section B1 - Area C1& C2) (~160m)         328 days         07/02/17         31/12/17           7         Excavation to Formation Level (+1.1mPD)         30 days         07/02/17         28/03/17           8         Construction of Binding & Plinth         21 days         09/03/17         29/03/17           9         Pile Laying         30 days         30/03/17         28/03/17           9         Pile Laying         30 days         30/03/17         28/04/17           9         Pile Laying         30 days         30/03/17         28/04/17           9										
9         Removal of Scaffolding         14 days         16/11/17         29/11/17           0         External UG P&D and Road Works         145 days         05/07/17         26/11/17           1         WWOo46 Completion         0 days         28/11/17         26/11/17           2         FSD Inspection         0 days         08/12/17         08/12/17           3         Submit BA 13 Inspection         14 days         30/11/17         13/12/17           4         Expected OP Issue         0 days         15/12/17         15/12/17           5         Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Empolyer's Specialist         328 days         07/02/17         31/12/17           7         Excavation to Formation Level (+1.1mPD)         30 days         07/02/17         29/03/17         29/03/17           8         Construction of Binding & Plinth         21 days         09/03/17         29/03/17         29/03/17           9         Pile Laying         30 days         30/03/17         29/03/17         29/03/17           0         Thrust Box Construction         21 days         29/04/17         19/05/17         19/05/17	8									
11       WW0046 Completion       0 days       26/11/17       26/11/17         2       FSD Inspection       0 days       08/12/17       08/12/17         3       Submit BA 13 Inspection       14 days       30/11/17       13/12/17         4       Expected OP Issue       0 days       15/12/17       15/12/17         5       Section B1 - Area C1&22 Incl. all UG structures & Temp. Access for Empolyer's Specialist       328 days       07/02/17       31/12/17         6       C.W. Culvert System (Area C1 & C2) (-160m)       328 days       07/02/17       31/12/17         7       Excavation to Formation Level (+1.1mPD)       30 days       07/02/17       28/03/17         8       Construction of Binding & Plinth       21 days       09/03/17       29/03/17         9       Pile Laying       30 days       30/03/17       28/04/17         19       Thrust Box Construction       21 days       20/04/17       19/05/17	9	Removal of Scaffolding	14 days	16/11/17	29/11/17					
2       FSD Inspection       0 days       08/12/17       08/12/17         3       Submit BA 13 Inspection       14 days       30/11/17       13/12/17         4       Expected OP Issue       0 days       15/12/17       15/12/17         5       Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Empolyer's Specialist       328 days       07/02/17       31/12/17         7       Excavation to Formation Level (+1.1mPD)       30 days       07/02/17       28/03/17         8       Construction of Binding & Plinth       21 days       09/03/17       29/03/17         9       Pile Laying       30 days       30/03/17       29/03/17         0       Thrust Box Construction       21 days       29/04/17       19/05/17						-				
3       Submit BA 13 Inspection       14 days       30/11/1       13/12/17         4       Expected OP Issue       0 days       15/12/17       15/12/17         5       Section B1 - Area C1& 2 Incl. all UG structures & Temp. Access for Empolyer's Specialist       328 days       07/02/17       31/12/17         6       C.W. Culvert System (Area C1 & C2) (~160m)       328 days       07/02/17       31/12/17         7       Excavation to Formation Level (+1.1mPD)       30 days       07/02/17       08/03/17         8       Construction of Binding & Plinth       21 days       09/03/17       29/03/17         9       Pile Laying       30 days       30/03/17       28/04/17         0       Thrust Box Construction       21 days       29/04/17       19/05/17						-				
4         Expected OP Issue         0 days         15/12/17         15/12/17           5         Section B1 - Area C1&2 Incl. all UG structures & Temp. Access for Empolyer's Specialist         328 days         07/02/17         31/12/17           6         C.W. Culvert System (Area C1 & C2) (~160m)         328 days         07/02/17         31/12/17           7         Excavation to Formation Level (+1.1mPD)         30 days         07/02/17         28/03/17           8         Construction of Binding & Plinth         21 days         09/03/17         29/03/17           9         Pile Laying         30 days         30/03/17         29/03/17           0         Thrust Box Construction         21 days         29/04/17         19/05/17						-11				
5       Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Empolyer's Specialist       328 days       07/02/17       31/12/17         6       C.W. Culvert System (Area C1 & C2) (-160m)       328 days       07/02/17       31/12/17         7       Excavation to Formation Level (+1.1mPD)       30 days       07/02/17       08/03/17         8       Construction of Binding & Plinth       21 days       09/03/17       29/03/17         9       Pile Laying       30 days       30/03/17       28/04/17         0       Thrust Box Construction       21 days       29/04/17       19/05/17						-				
7         Excavation to Formation Level (+1.1mPD)         30 days         07/02/17         08/03/17           8         Construction of Binding & Plinth         21 days         09/03/17         29/03/17         29/03/17           9         Pile Laying         30 days         30/03/17         28/04/17         19/05/17           0         Thrust Box Construction         21 days         29/04/17         19/05/17										
Instruction         Excavation to Formation Level (+1.1mPD)         30 days         07/02/17         08/03/17           18         Construction of Binding & Plinth         21 days         09/03/17         29/03/17         29/03/17           19         Pile Laying         30 days         30/03/17         28/04/17         19/05/17           10         Thrust Box Construction         21 days         29/04/17         19/05/17	16	C.W. Culvert System (Area C1 & C2) (~160m)	328 dave	07/02/17	31/12/17	-				
8         Construction of Binding & Plinth         21 days         09/03/17         29/03/17           9         Pile Laying         30 days         30/03/17         28/04/17           0         Thrust Box Construction         21 days         29/04/17         19/05/17							800000000			
9         Pile Laying         30 days         30/03/17         28/04/17           0         Thrust Box Construction         21 days         29/04/17         19/05/17										
20 Thrust Box Construction 21 days 29/04/17 19/05/17						1	000000000000000000000000000000000000000			
1 Water Test 7 days 20/05/17 26/05/17	20	Thrust Box Construction	21 days	29/04/17	19/05/17	]]				
	21	Water Test	7 days	20/05/17	26/05/17					

Barta and börthy 5: 11 ping         Extéric         3000/17         300	1	ask Name	Duration	Start	Finish	
<ul></ul>	22	Backfill	30 dave	27/05/17	25/06/17	F M A J A J
7         Security Security Security Security Security Constrained Security Constrained Security		All underground Utilities				
Bit School         Bit Sch		Backfill & Reinstatement & Formation of Access	24 days	08/12/17	31/12/17	
Bit         Bedatok se fil bern         Beda	27	Supporting Supporting Structure for Overhead Crane	200 days	26/05/17	11/12/17	
30         Schweiz Derseg Modified mit 2         0.005/17         3009/17           31         Schweiz Derseg Modified mit 2         0.005/17         3009/17           32         Schweiz Derseg Modified mit 2         0.005/17         3109/17           33         Schweiz Derseg Modified mit 2         0.005/17         3109/17           34         Schweiz Derseg Modified mit 2         0.005/17         3109/17           35         Bezignen Fin 2, fan 19, fan fan	28	Section B2 - Surcharge relocation & assoicated top-up works	242 days		31/12/17	
Nill Bancov of Suchasport Pice (2000 mt) By Asia ZD (2000 CB) Such Asia BH, PD, DD, DD, 46 Gays         00.0007         100077           Status         Delating Read Chain CAchem (2000 mt)         00.0007         100077           Status         Delating Read Chain CAchem (2000 mt)         20.0007         100077           Status         Delating Read Chain CAchem (2000 mt)         20.0007         100077           Status         Delating Read Chain CAchem (2000 mt)         20.0007         20.0007           Status         Delating Read Chain CAchem (2000 mt)         20.0007         20.0007           Status         Delating Read Chain Chain Control (1000 mt)         10.0007         20.0007           Status         Delating Read Chain Chain Control (1000 mt)         10.0007         20.0007           Status         Delating Read Chain Chain Control (1000 mt)         40.0007         20.0007           Status         Delating Read Chain Chain Control (1000 mt)         40.0007         20.0007           Status         Delating Read Chain Chain Control (1000 mt)         40.0007         20.0007           Status         Delating Read Chain Chain Control (1000 mt)         40.0007         20.0007           Status         Delating Read Chain Chain Control (1000 mt)         40.0007         20.0007           Status         Delatin		Roadworks and External Works	242 days	04/05/17	31/12/17	
and 16 methods         Number         Numbr	30		120 days	04/05/17		
Simulate Data Code on (200 ms)         Bit O 197         Bit 2011         Bit 2011 <thbit 2011<="" th="">         Bit 2011         <th< td=""><td></td><td>and D4</td><td>-</td><td></td><td>15/10/17</td><td></td></th<></thbit>		and D4	-		15/10/17	
34         Sector - Acc 2, Hield & MBBU (16 or Employer's Speciality         47						
55         HeSA Ave Equipment In F Am - South (Kers C)         29 4 4 yr         980417         310118           10         Lecardin for Tomation Level         18 4 ayr         800417         230017           10         Part (Ma) Tom (Ha) (Level In John Hage)         10 4 ayr         200017         230017           10         Part (Level In Tom (Ha) (Level In John Hage)         10 4 ayr         200017         230017           10         Part (Level In Tom (Ha) (Level In John Hage)         10 4 ayr         200017         230017           10         Part (Level In Tom (Ha) (Level In John Hage)         10 4 ayr         200017         230017           10         Part (Level In Tom (Ha) (Level In John Hage)         10 4 ayr         200017         230017           10         Part (Level In Tom (Ha) (Level In John Hage)         10 4 ayr         200017         200017           11         4 ayr         10 4 ayr         200017         700017         200017           11         4 ayr         10 4 ayr         200017         700017         200017           12         Audio Y ayr         10 4 ayr         200017         7001717         200017           12         Audio Y ayr         10 4 ayr         200017         7001177         7001177						
68         Fitzwarktor, is formation Low         19.499         8000417         200417         600017         200417         600017         200417         600017         200417         600017         200417         600017         200417         600017         200017						
17         Sump PL, Duri PL (201, 176 to 4, 201 in Height)         45 Supp PL, Duri PL (201, 176 to 4, 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 16 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 16 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 16 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 16 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 16 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 16 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 16 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 17 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 17 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 17 ht 16 ht 20 16 5         60 Supp PL, Duri PL (201, 176 to 17 ht 16 ht 20 ht 20 ht 16 ht 16 ht 176 ht 176 ht 16 ht 20 ht 20 ht 16						$\overline{\nabla}$
80         Pice ises Tradinary (bo)         44 sigs         00017         23017           90         Pice ises themes -C. (10-10+1 (b+18) 10:0         60 sigs         00017         71077           81         Pice ises themes -C. (10-10+1 (b+18) 10:0         60 sigs         00017         71077           81         Pice ises themes -C. (10-10+1 (b+18) 10:0         60 sigs         00017         71077           82         Pice ises themes -C. (10-10+1 (b+18) 10:0         60 sigs         00017         710777           83         Backlin & Fernishem & Formation & Access Road         60 sigs         000177         230017           84         Underground Dimongo         10 sigs         000177         230017         710017           84         Descrits         60 sigs         000177         230017         710017           84         Descrits         60 sigs         100177         710017         710017           85         Descrits         60 sigs         1011171         711717         710017           84         Passport Na         10 sigs         101117         711717         710017           85         Book Sigs         10 sigs         1011117         711717         710017         710017         710017         7						
Proc Cap & The Beam:         C: 1014 to 1014. To 141s to 14         Ob dayse         10001/17         17001/7           Proc Cap & The Beam:         C: 2000 HT         100001/17         20001/17         10001/17         20001/17         10001/						
00         Pate issa Test         112 days         100017           01         Ref Construction (Trais)         40 days         3000017         300017           02         Ref Construction (Trais)         60 days         10117         301017           02         Ref Construction (Trais)         60 days         10117         301017           03         Pate Load Test         10 days         0700017         300017           04         H#SD Equipment Room         14 days         200017         100017           05         Pate Load Test         10 days         700017         300017           05         Pate Load Test         10 days         200017         100017           06         Construction         12 days         300017         3001017           07         Parget Val         12 days         300017         301018           08         Main Station Building Farce Institutions         12 days         300117         301017           04         Ready Construction         12 days         3010118         310118         410117           05         Main Station Building Farce Institutions         12 days         2010171         310118         410117           05         Building Staree In						
11     Aull uborground Ullies     40 days     330017       12     Aull uborground Ullies     60 days     191217       13     Backin & Frontation of Access Read     60 days     191217       14     Predict and Tet     10 days     100017       14     Predict and Tet     10 days     100017       14     Predict and Tet     10 days     100017       15     Boschill & Frontation of Access Read     60 days     100017       16     Undergonind Damage     10 days     200017     100017       17     HISG Explorement RF Frontation     14 days     2000171     100017       18     Boschill & Frontation     14 days     2000171     101017       19     Specification     12 days     110117     101017       10     Specification     12 days     110117     101017       11     Boschill & Frontation     14 days     101117     101117       12     AAW Wols     14 days     11117     101117       13     Boschill & Frontation Provation Notation     14 days     101117       14     days     11119     11117     101118       15     Boschill & Frontation Provation Notation     14 days     101117       16     days     2011117<						
2         Al Undergrand Utilisis         00 days         44/0107         02/017           Baddill Romatimum (Access Road)         00 days         131/017         02/017           Baddill Romatimum (Access Road)         178 days         2008017         1300116           Hesc Equipment Roma         178 days         2008017         1300116           Hesc Equipment Roma         12 days         2008017         1300116           Hesc Equipment Roma         12 days         2008017         1300116           Baddill Access         12 days         200817         1300116           Baddill Access         12 days         200817         1300116           Baddill Access         12 days         200817         1300116           Parsock         12 days         210017         1300116           Baddill School         2 days         210017         1300116           Baddill School         30 days         191117         171217           School         Baddill School         42 days         2010111         171116           Baddill School         42 days         201114         611110         171116           Baddill School         43 days         201114         611110         171116           Baddi						
Backtill & Reinsteam 7 & Formation of Access Road         50 days         191/17         310/18           HHSD Equipment Room         170 days         0700477         100017           Main Load Test         100 days         0700477         100017           Main Station Carl         100 days         0700477         100017           Main Station Carl         6 days         100017         100017           Main Station Carl         12 days         100017         770217           Main Station Building Favoration         12 days         300107         201017           Main Station Building Favoration         12 days         30017         201017           Main Station Building Favoration         42 day         10017         310118           Main Station Building Favoration         42 day         101176         201017           Statistic S						
Histo Equipment Noom         178 days         070817         310119           6         Mitto Contrainag         10 days         070817         160817           6         Mitto Contrainag         12 days         070817         200817           6         Mitto Contrainag         12 days         170817         200817           6         Mitto Contrainag         12 days         100917         170917           6         Construct Contrainag         12 days         100917         201017           7         Pacaget Well         12 days         201017         201017           8         Construct Contrainag         0 days         3010118         3100118           9         Pacaget Well         0 days         010118         010119           6         Mant Staton Schooland Contrainag         0 days         010118         011118           6         Mant Staton Schooland Contrainag         0 days         011118         011118           6         Mant Staton Schooland Formation Schooland Contrainag         0 days         011118         011118           6         Mant Staton Schooland Formation Schooland Contrainag         0 days         011118         011118           6         Schooland Formation Schooland Con						
46       Underground Datalage       10 days       000017       100017         47       HRSG Equipment RM Function       14 days       200017       110017         48       Backfull       0 days       200017       110017         49       Backfull       0 days       200017       110017         40       Backfull       0 days       200017       10017         50       Parager Wail       0 days       21 days       200017         51       Parager Wail       0 days       21 days       200017         52       Balling Service Installations       45 days       100117       101111         54       Ready te bk 13 Agricultant       0 days       21 days       310118       310118         54       Ready te bk 13 Agricultant       0 days       0 11116       011116       011116       011116         57       B30 Consert for ELS MSRU10 Foundation       0 days       011116       011116       011116       011116         67       B30 Consert for ELS MSRU10 Foundation       0 days       021116       012116       011116         67       B30 Consert for ELS MSRU10 Foundation       0 days       021116       020117       011116       011116						
46         Underground Dramage         12 days         1708/17         1208/17           47         HRSG Explanent RM Foundation         14 days         2808/17         1708/17           48         Bacadii         6 days         1208/17         1708/17           49         Construct OF         12 days         800/017         200/017           50         Read Construction         21 days         800/017         200/017           51         Read Construction         21 days         800/017         200/017           52         ABMP Works         50 days         1611/17         1712/17           53         Building Service Installations         45 days         011/16         1710/116           54         Ready for A1 3 Application         0 days         1611/16         1711/16         1411/16           55         Main Station Building Fah, GF & HF         43 days         011/16         1411/16						
47       HRSC Equipment RM Fundation       64 days       2200477       11/0017         48       Boodhil       6 days       12 days       1800477       2000177         49       Construct of F       12 days       1800477       2000177       200177         40       Decoderation       21 days       1800477       2000177       200177         50       Road Construction       45 days       190177       200177       200177         51       Building Service Installance       45 days       1901797       3100118       3101718       3101718       3101718         54       Ready for RA 15 Application       0 days       3101718       010118       010119       010119       010119         50       Building Service Installance       0 days       3101718       010118       010119       010116 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
44         Backti         6 days         1200H7         700H7           40         Constructor         12 days         300H7         200H7         230H7           50         Read for constructor         12 days         300H7         200H7         230H7           51         Pangark Val         12 days         300H7         200H7         200H7           51         Pangark Val         12 days         300H7         200H7         200H7           53         Building Service Installatione         45 days         1111/16         1111/16         1111/16           55         Main Station Building Fan, GF & MF         433 days         0111/16         1141/16         1141/16           57         B D Consert for El 3 MSBUT Foundam         0 days         0111/16         1141/16         1141/16           58         D Consert for Is 13 MSBUT Foundam         0 days         2111/16         1111/16         1111/16           59         Subtation Building Fan, GF & MF         14 days         2111/16         1111/16         1111/16           60         Excavation to Formation Level (1 J 23cmP0)         14 days         2111/16         120H7           61         Outdown Maint S Station Stati Ansati Ansati Ansati Ansati Ansati Ansati Ansati Ansati Ansati A						
49         Construction         12 days         1800/17         2010/17           50         Reof Construction         12 days         2010/17         2010/17           51         Paraget Wali         12 days         2010/17         2010/17           51         Paraget Wali         12 days         2010/17         11/11/17           53         Building Service Installation         44 days         18/12/17         31/11/16           54         Mark Structure All for St F4         43 days         01/11/16         01/11/16           54         Installation of Devateming Wali King Post for Type A         13 days         01/11/16         01/11/16           55         Build Checker Top Exit F5         14 days         01/11/16         01/11/16         01/11/16           56         Subtint Checker Top Exit F5         14 days         01/11/16         01/11/16         01/11/16           57         BD Constructure All for All for Davatation         14 days         01/11/16         01/11/16         01/11/16           58         Subtint Checker All for Davatation         10 days         01/11/16         01/11/16         01/11/16           61         Subtint Checker All for Davatation         10 days         01/11/16         10/01/17         10/01/17			,			
60         Rod Construction         21 days         2009177         011/117           61         Paged Wal         152 days         21/11/17         011/117           62         ABWF Works         30 days         18/11/17         10/11/117           62         ABWF Works         45 days         18/11/17         10/11/118         01/11/16           64         Resdy for BA13 Application         0 days         31/01/18         07/01/16           65         Building Service Installations         0 days         01/11/18         07/01/16           67         BD Consert for E13 MSU10 Foundation         0 days         01/11/16         01/11/16         01/11/16           69         Build consert for E13 MSU10 Foundation         16 days         25/11/16         05/21/06           60         Excavation Myling A Struct (Free ABT)         114 days         25/11/16         06/11/16         06/11/16           61         Cut down Fiel Head & Reatment         45 days         09/11/16         00/11/16         00/11/17         00/11/17           62         Daria Miland Struct (Free A & Targe O / 10/10         30 days         00/11/17         28/01/17         10/01/17           63         Daria Miland Struct (Free A & Targe O / 10/10         30 days         27						
51       Parupet Wal       12 dayp       21/10/17       01/11/17         52       ABWK Wols       30 days       19/11/17       10/11/17         53       Building Service Installations       45 days       19/11/17       31/01/18         54       Ready for BA 13 Application       0 days       31/01/18       31/01/18         55       Main Station Building Fdn, G/F & FP       433 days       01/11/18       40/11/18         57       BD Consent for ELS MSU/16 Foundation       0 days       01/11/18       14/11/18         57       BD Consent for ELS MSU/16 Foundation       0 days       01/11/18       14/11/18         60       Excavation to Formation Level (1-1325mPC)       14 days       25/11/16       20/11/17         61       Cut-down Pile Head X freatement       45 days       29/11/18       12/01/17         62       Construction of Tamston Eavy (-14/1325mPC)       14 days       29/11/18       12/01/17         62       Construction of Tamston Eavy (-14/1325mPC)       14 days       00/11/17       12/01/17         63       Construction of Construction       10 days       09/11/17       12/01/17       12/01/17         64       Exeavation, Waling & Struct (Ype A Type C)       30 days       00/01/17       00/01/17						
22       AbVF Works       30 days       19/11/7       11/12/17         35       Building Service Installations       45 days       19/12/17       31/01/18         44       Ready for BA1 3 Application       0 days       31/01/18       07/01/18         56       Main Station Building GAn, Opt Sf aff       43 days       01/11/18       07/01/18         56       Main Station Building GAN, Opt Sf aff       14 days       01/11/18       07/01/18         57       Build Station SF Severation List SMore Sf averation Size Size Size Size Size Size Size Size						
53       Building Service Installations       45 dyps       191/17       31/01/18         55       Ready for RA13 Application       0 dyps       31/01/18       31/01/18         55       Main Station Building Fdn, Gir A IF       433 dyps       001/11/16       14/11/16         57       BD Consent for FLS MSDUTO Foundation       0 dyps       01/11/16       14/11/16       01/11/16         57       BD Consent for FLS MSDUTO Foundation       0 dyps       01/11/16       01/11/16       01/11/16         68       Excansion to Formation Level (1 J32mPD)       15/11/16       00/11/16       01/11/16       01/11/16         60       Excansion to Formation Level (1 J32mPD)       16/4 dyp       26/11/16       01/11/16       10/11/16         61       Curchard Pile facet & threateent       10/0 dyp       00/11/16       10/01/17       00/01/17         62       Construction of Construction       10/0 dyp       00/01/17       00/01/17       00/01/17         64       Excanalion to Formation Level (1 J32mPD)       30/0 dyp       0/01/17       0/00/17       0/01/17         65       Dan Hy Simp (1 Construction of Constructin of the Bar Ord of the Pipe) (GLSC1 to SC4 and						
64         Ready for BA 13 Application         0 days         3101/18         3101/18           56         Main Station Building Ard, Olf & Mr         A13 days         011/116         1411/16           56         Installation of Dewatering Weil & King Post for Type A         14 days         011/116         1411/16           57         BD Chewatering Weil & King Post for Type A         21 days         011/116         011/116           58         Buik Excavation to approx. 43 dmPD         21 days         1011/116         061/216           59         Substructwack/FG - SL Strop 40, 101 to 10-44         154 days         2011/11         061/216           60         Curcher The East Micro Information Level (1.325mPD)         14 days         2011/16         061/216           61         Curcher The East Micro Information Level (1.325mPD)         14 days         2011/17         050/17           62         Construction of Transforme Bay Foundations         45 days         0701/17         050/17           63         Arrival OK Wildweit Plagin Materials Incl. Resulte joint & other cast In materials         0 days         07001/17         050/17           64         Construction of Gr- Arrival Daws Encl. Top of the Pipe) (0LSC1 to SC4 and SC4         20 dayi         200/17         050/17           71         Subdays						
55     Main Station Building For, Oif & IrF     413     days     0111116     070118       57     Bio Consent for ELS MSBU10 Foundation     0 days     0111116     011116       57     BD Consent for ELS MSBU10 Foundation     0 days     0511116     011116       58     Built Exavation to Sprowsking Superior     21 days     1511116     051216       59     Substructure & GLP & SC1 to 10-0.     14 days     2511116     051216       50     Exavation to Formation Level (+1.250HPD)     14 days     2511116     0501216       51     Out-down Pile Head & testiment     45 days     2911116     1200117       52     Pile Cap & Tie Beam Construction     100 days     0311216     1200117       53     Construction of Culvent Duilet Box     45 days     2701117     070117       64     Construction of Culvent Duilet Box     30 days     080117     0600317       67     Construction of Culvent Inite Box     30 days     070117     070117       68     Construction of Guivent Inite Box     30 days     2702117     120417       69     Construction of Guivent Inite Box     30 days     270217     120417       71     Substructure & GLP and GF Sibb Construction     30 days     270217     120417       72     Exavation						
66       Installation of Dewatering Well & King Post for Type A       14 days       01/11/16       14/11/16         7       B0 charsen for ELS MBU / Foundation       0 days       01/11/16       01/11/16         87       B0 Charsen for ELS MBU / Foundation       21 days       15/11/16       06/11/16         88       Bulk Excavation to Formation Level (+1.32mPC)       14 days       25/11/16       06/12/16         96       Cul-down Pie Head Realment       45 days       25/11/16       06/12/16         97       Construction of Transforme Bay Foundations       45 days       07/01/17       07/01/17         98       Construction of Transforme Bay Foundations       45 days       07/01/17       28/01/17       28/01/17         98       Construction of Culvert Outlet Box       21 days       08/01/17       28/01/17       28/01/17         97       Construction of Culvert Outlet Box       0 days       09/02/16       07/01/17       06/02/17         98       Construction of Culvert Outlet Box       0 days       09/02/16       07/01/17       06/02/17         97       Construction of Culvert Outlet Box       0 days       09/02/16       07/01/17       06/02/17         97       Sub Structure & Gr - Sub Construction       30 days       09/02/16       07/						
57       B0 Consent for ELS MSB/U10 Foundation       0 daya       0 full /16       0 full /16         59       Bulk Loravalon to Agromov. 43 0mPD       21 daya       15/11/16       65/12/16         59       Substructure&GF-GL SC1 to 100, 10-1 to 10-6       154 daya       25/11/16       67/21/16         50       Exavalon to Formation Level (1-1 25/mPD)       14 daya       25/11/16       12/01/17         61       Cut-down Pile Head & treatment       45 daya       29/11/16       12/01/17         62       Pile Cap & Tis Beam Construction       100 daya       03/12/16       20/01/17         63       Construction of Cambrid Construction       40 daya       07/01/17       07/01/17         64       Construction of Culver Outel Box       30 daya       08/01/17       08/01/17         65       Construction of Culver Inite Box       30 daya       07/02/17       12/04/17         67       Construction of Culver Inite Box       30 daya       09/03/17       27/04/17       07/01/17         68       Construction of Culver Inite Box       30 daya       09/03/17       27/04/17       12/04/17         71       Substructure & Gr-G       10/0 daya       09/12/16       20/01/17       12/04/17         72       Exiavialon to Formation Level (						
Bulk Excavation to approx. 4.3 0mPD         21 days         15/11/16         05/12/16           9         Substructure&GF-CB. SC 16 10-D. 10-10 10-6         156 days         25/11/16         05/12/16           60         Excavation to Formation Level (+1.325mPD)         14 days         25/11/16         05/12/16           61         Cutdown Pile Head & treatment         45 days         29/11/16         12/01/17           62         Pile Cap & The Beam Construction         100 days         03/01/17         17/01/17           63         Construction of Transformer Bay Foundations         45 days         17/12/16         30/01/17           64         Excavation, Valing & Struct (Type A & Type C)         30 days         06/01/17         28/01/17           65         Construction of Transformer Bay Foundations         45 days         07/01/17         28/01/17           66         Construction of Caver I helf Box         30 days         08/09/17         28/01/17           67         Construction of Caver I helf Box         30 days         09/09/2         29/02/17         12/04/17           68         Construction of Caver I helf Box         30 days         09/02/17         12/04/17         12/04/17           7         Substructure & GF-GL 10-D 10-41, 10-10 10-6         39 days         09/02/						
99         Substructure&G/F-GL SC1 to 10-0, 10-0-6         196 days         25/11/16         27/10-17           0         Excavation to Framinoi Luev(1-1, 25mPD)         14 days         25/11/16         0/12/17           01         Cut-down Pile Head & treatment         45 days         29/11/16         1/20/17           03         Construction of Transforme Bay Foundations         45 days         0/11/17         0/01/17           03         Construction of Transforme Bay Foundations         45 days         0/11/17         0/01/17           04         Excavation, Waling & Struct (Type A Type C)         30 days         0/01/17         0/01/17         0/01/17           05         Drain PIL Symp PIL Construction         21 days         0/01/17         0/01/17         0/01/17           04         Excavation & Valing Cutvert pilang materials incl. flexible joint & other cast in materials         0 days         0/01/17         0/01/17           05         Construction of Cutvert Outlet Box         30 days         0/01/17         0/02/17         1/06/03/17           06         Construction of Tee Beam/ Ground Beam (Top of the Pipe) (GLSC1 to SC4 and SC4         30 days         0/01/17         2/01/17         1/01/14           17         Substructure & S(rF-GL 10-D to 10-H, 10-1 to 10-6         395 days         0/01/17						
60         Excavation to Formation Level (+1.325mPD)         14 days         25/11/16         0.08/12/16           61         Curdown Pile Head & Iteration         45 days         02/12/16         12/03/17           62         Pile Gap & Tine Beam Construction         100 days         02/12/16         12/03/17           63         Construction of Transformer Bay Foundations         45 days         02/12/16         02/01/17           64         Excavation, Waling & Struct (Type A.8.Type C)         30 days         09/12/16         07/01/17           65         Drain PL/Sump Pit Construction         21 days         08/01/17         08/01/17         08/01/17           66         Construction of Culvert Outlet Box         30 days         07/01/17         09/01/17         09/01/17           67         Construction of Culvert Outlet Box         30 days         07/01/17         09/01/17         09/01/17           68         Construction of Culvert Outlet Box         30 days         09/01/17         09/01/17         09/01/17           70         Bearing Wall, Colume Post and GF Siab Construction         30 days         09/01/16         22/01/17           71         Substructures & GF - 01 A0 D 1 O 10-6         39 days         09/01/16         22/01/16         10/01/17           72 <td>59</td> <td></td> <td></td> <td></td> <td></td> <td></td>	59					
61         Cut-down Pile Head & treatment         45 days         2011/16         1201/17           62         Pile Cay & Tie Beam Construction         100 days         301/16         1203/17           63         Construction of Transformer Bay Foundations         45 days         0701/17         300/117           64         Excavation, Walling & Struct (Type A & Type C)         30 days         0901/17         0600/117           65         Drain Pil Xoms pil Construction of Culvet plan materials incl. flexible joint & other cast in materials         0 days         0701/17         0600/17           66         Construction of Culvet Outlet Box         30 days         0901/17         0600/17         0600/17           67         Construction of Culvet Inite Box         30 days         0901/17         0600/17         0600/17           68         Construction of Culvet Inite Box         30 days         2903/17         270/17         1204/17           70         Bearing Wall, Column Post and GF Slab Construction         30 days         2903/17         2704/17           71         Stubstructure & GiF-G LD to 10-1, 10-1 to 10-6         395 days         901/216         0701/17           72         Existing Sheet Pile Cut-down         7 days         121/216         1010/17           73         Ex	60					•
62         Pile Cap & Tie Beam Construction         100 days         03/12/16         1203/17           63         Construction of Transforme Bay Foundations         45 days         17/12/16         0300/17           64         Excavation, Waling & Struct (Type A & Type C)         30 days         09/12/16         07/01/17           65         Drain PI/Sump Pi Construction         21 days         08/01/17         08/01/17           67         Construction of Cuiver I tolitet Box         30 days         07/01/17         07/01/17           68         Construction of Cuiver I tolitet Box         30 days         07/01/17         12/04/17           69         Construction of Cuiver I tolitet Box         30 days         27/02/17         12/04/17           70         Bearing Wall, Column Post and Gir Siab Construction         30 days         29/02/17         27/04/17           71         Substructure & Gir Siab Construction         30 days         09/12/16         07/01/18           72         Excavation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         01/01/17           73         Excavation to Type B         14 days         09/12/16         01/01/17           74         Complete excavation at Type B         14 days         19/12/16         10/01/17	61					
64         Excavation, Waing & Struct (Type A & Type C)         30 days         09/12/16         07/01/17           65         Dran PH Comprison         21 days         08/01/17         28/01/17         28/01/17           66         Arrival of CW Culvert piping materials incl. flexible joint & other cast in materials         0 days         08/01/17         06/02/17           67         Construction of Culvert Unitet Box         30 days         08/01/17         08/03/17           68         Construction of The Beam Ground Beam (Top of the Pipe) (SLSC1 to SC4 and SC to SC5 b)         27/02/17         08/03/17         12/04/17           69         Construction of the Pipe) (SLSC1 to SC4 and SC to SC5 days         09/12/16         27/02/17         12/04/17           70         Bearing Wail, Column Post and G/F Slab Construction         30 days         29/03/17         27/04/17         12/04/17           71         Substruct Tre & GriF- GL 10-10-10-10-10-10-6         39 days         29/02/17         27/04/17         12/04/17           72         Existing Sheet Pile Cut-down         7 days         12/12/16         01/01/17         10/02/17           73         Existing Sheet Pile Cut-down         7 days         12/12/16         10/11/17         10/02/17           74         Pile Head Treatment (Bino.)         30 days	62	Pile Cap & Tie Beam Construction		03/12/16	12/03/17	
65         Drain Pit /Sump Pit Construction         21 days         08/01/17         28/01/17           68         Arrival of CW Cuvert pliping materials inci. flexible joint & other cast in materials         0 days         07/01/17         07/01/17           68         Construction of Culvert Dulet Box         30 days         07/02/17         08/03/17         08/03/17           68         Construction of Culvert Dulet Box         30 days         07/02/17         08/03/17         12/04/17           69         Construction of Te Bearn (Ground Beam (Top of the Pipe) (GLSC1 to SC4 and SCa         25 days         27/02/17         12/04/17           70         Bearing Wall, Column Post and GF Slab Construction         30 days         09/12/16         07/04/17           71         Substructure & Suif- G-L 10-D to 10+1, 10-1 to 10-4         396 days         09/12/16         07/01/18           72         Excavation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         07/01/18           73         Excisiting Sheet Pile Cut-down         7 days         10/12/16         10/10/17         15/02/17           74         Complete excavation at Type B         14 days         19/12/16         10/10/17         15/02/17           75         Bearing Wall, Column Post and GF Slab Construction         36 days						
66         Arrival of CW Culvert piping materials incl. flexible joint & other cast in materials         0 days         07/01/7         07/01/7           67         Construction of Culvert Duilet Box         30 days         08/01/7         06/02/17           68         Construction of Culvert Inlet Box         30 days         07/02/17         12/04/17           68         Construction of Culvert Inlet Box         30 days         27/02/17         12/04/17           69         Construction of Culvert Inlet Box         30 days         27/02/17         12/04/17           70         Bearing Wall, Column Post and G/F Slab Construction         30 days         09/12/16         27/04/17           71         Substructure & G/F - GL 10-D to 10-4, 10-1 to 10-6         39 stays         09/12/16         18/12/16           72         Exavation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         18/12/16           73         Existing Sheet Pile Cul-down         7 days         19/12/16         18/12/16         18/12/16           74         Complete excavation at Type B         30 days         19/12/16         18/12/16         18/12/16           75         Blow Down Struction         45 days         22/03/17         28/04/17         18/02/17           76         Pile Cap						
Interview         Interview <thinterview< th="">         Interview         <thinterview< th="">         Interview         Interview</thinterview<></thinterview<>						
68         Construction of Culvert Intel Box         30 days         07/02/17         08/03/17           69         Construction of Tie Beam/ Ground Beam (Top of the Pipe) (GLSC1 to SC4 and SCa to SCb)         27/02/17         12/04/17         12/04/17           70         Bearing Wall, Column Post and G/F Siab Construction         30 days         29/03/17         27/04/17           71         Substructure & G/F - G1 - Do to 10-10 to 10-10 to 10-6         395 days         09/12/16         09/12/16         09/12/16           72         Exoation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         18/12/16         18/12/16           73         Existing Sheet Pile Cut-down         7 days         12/12/16         18/12/16         18/12/16           74         Complete excavation at Type B         14 days         19/12/16         110/11/7         17/01/17           75         Blow Down Sump Construction         100 days         29/12/16         17/01/17         17/01/16           76         Pile Head Treatment (18/0.0)         100 days         29/12/16         07/04/17         17/00/17           77         Pile Cap & Tie Beam Construction         35 days         25/03/17         28/04/17         17/00/17           78         Bearing Wall, Column Post and G/F Stab Construction			-			
69         Construction of Tie Beam/ Ground Beam (Top of the Pipe) (GLSC1 to SC4 and SCa         45 days         27/02/17         12/04/17           70         Bearing Wall, Column Post and G/F Slab Construction         30 days         29/03/17         27/04/17           71         Stubstructure & G/F- GL 10- Dt 01-0H, 10-16         395 days         09/12/16         07/01/18           72         Excavation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         12/12/16           73         Existing Sheet Pile Cut-down         7 days         19/12/16         18/12/16           74         Complete excavation at Type B         14 days         19/12/16         19/12/16           75         Blow Down Sump Construction         30 days         19/12/16         17/01/17           76         Pile Head Treatment (18no.)         30 days         19/12/16         17/01/17           77         Pile Cap & Tie Beam Construction         30 days         25/03/17         28/08/17           78         Bearing Wall, Column Post and G/F Slab Construction         35 days         15/07/17         28/08/17           79         Turbo Block Foundation         45 days         15/07/17         28/08/17         27/08/17           70         Bearing Wall, Column Post and G/F Sub Construction						
70         Bearing Wall, Column Post and G/F Slab Construction         30 days         29/03/17         27/04/17           71         Substructure & G/F - GL 10- Dt 10-H, 10-1 to 10-6         395 days         09/12/16         22/01/17           72         Exacavation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         22/01/17           73         Existing Sheet Pile Cut-down         7 days         12/12/16         18/12/16           74         Complete excavation at Type B         14 days         19/12/16         15/02/17           76         Blow Down Sump Construction         45 days         09/12/16         17/01/17           77         Pile Lead Treatment (18no.)         30 days         19/12/16         17/01/17           77         Pile Cap & Tie Beam Construction         130 days         29/10/17         28/04/17           78         Bearing Wall, Column Post and G/F Slab Construction         130 days         29/12/16         07/04/17           79         Turbo Block Foundation         45 days         15/07/17         28/08/17         28/08/17           71         Turbo Block Superstructure         90 days         21/09/17         18/08/17         27/08/17           79         Turbo Block Superstructure         90 days         28/08/17 <td>169</td> <td>Construction of Tie Beam/ Ground Beam (Top of the Pipe) (GLSC1 to SC4 and SCa</td> <td></td> <td></td> <td></td> <td></td>	169	Construction of Tie Beam/ Ground Beam (Top of the Pipe) (GLSC1 to SC4 and SCa				
Substructure & G/F- GL 10-D to 10-H, 10-1 to 10-6         395 days         09/12/16         07/01/18           72         Excavation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         22/01/17           73         Existing Sheet Pile Cut-down         7 days         12/12/16         18/12/16         01/01/17           74         Complete excavation at Type B         14 days         19/12/16         01/01/17           75         Blow Down Sump Construction         45 days         02/01/17         15/02/17           76         Pile Head Treatment (18no.)         30 days         19/12/16         07/04/17           77         Pile Cag Tie Beam Construction         30 days         19/12/16         07/04/17           78         Bearing Wall, Column Post and G/F Slab Construction         35 days         25/03/17         28/04/17           79         Turbo Block Foundation         45 days         15/07/17         28/08/17         27/08/17           80         Backfill of Turbo Block Superstructure         90 days         21/09/17         19/12/17           82         Beam & Slabs at G/F Area         90 days         28/08/17         25/11/17           83         Associated ABWF & S BWorks for Specialist Access         60 days         09/11/17         07/	170		30 davs	29/03/17	27/04/17	
T2         Excavation to Formation Level (+2.425mPD & 5.025mPD)         45 days         09/12/16         22/01/17           73         Existing Sheet Pile Cut-down         7 days         12/12/16         18/12/16           74         Complete excavation at Type B         14 days         19/12/16         01/01/17           75         Blow Down Sump Construction         45 days         02/01/17         15/02/17           76         Pile Head Treatment (18no.)         30 days         19/12/16         17/01/17           77         Pile Cap & Tie Beam Construction         100 days         25/03/17         28/04/17           78         Bearing Wall, Column Post and G/F Slab Construction         35 days         25/03/17         28/04/17           79         Turbo Block Foundation         45 days         15/07/17         28/08/17         28/08/17           80         Backfill of Turbo Block Superstructure         90 days         21/09/17         19/12/17           82         Beam & Slabs at G/F Area         90 days         21/09/17         27/08/17           83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/17         07/01/18           84         GIF & Lift & Maintenance Floor         44 days         29/04/17         11/06/17						
Table         Table <th< td=""><td>72</td><td></td><td></td><td></td><td></td><td></td></th<>	72					
74         Complete excavation at Type B         14 days         19/12/16         01/01/17           75         Blow Down Sump Construction         45 days         02/01/17         15/02/17           76         Pile Head Treatment (18no.)         30 days         19/12/16         17/01/17           76         Pile Cap & Tie Beam Construction         100 days         29/12/16         07/04/17           78         Bearing Wall, Column Post and G/F Slab Construction         35 days         25/03/17         28/04/17           79         Turbo Block Foundation         45 days         15/07/17         28/08/17           79         Turbo Block Superstructure         90 days         11/09/17         27/09/17           81         Turbo Block Superstructure         90 days         21/09/17         19/12/17           82         Beam & Slabs at G/F Area         90 days         21/09/17         25/11/17           83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/17         07/01/18           84         G/F & Lift & Maintenance Floor         44 days         20/04/17         11/06/17         11/06/17	73					
76       Pile Head Treatment (18no.)       30 days       19/12/16       17/01/17         77       Pile Cap & Tie Beam Construction       100 days       29/12/16       07/04/17         78       Bearing Wall, Column Post and G/F Slab Construction       36 days       29/12/16       07/04/17         79       Turbo Block Foundation       45 days       15/07/17       28/08/17         80       Backfill of Turbo Block Superstructure       90 days       14/08/17       27/08/17         81       Turbo Block Superstructure       90 days       28/08/17       19/12/17         82       Beam & Slabs at G/F Area       90 days       28/08/17       25/11/17         83       Associated ABWF & BS Works for Specialist Access       60 days       09/11/17       07/01/18         84       G/F & 1/F & Maintenance Floor       44 days       29/04/17       11/06/17       11/06/17	74					
77         Pile Cap & Tie Beam Construction         100 days         29/12/16         07/04/17           78         Bearing Wall, Column Post and G/F Slab Construction         35 days         25/03/17         28/04/17           79         Turbo Block Foundation         45 days         15/07/17         28/08/17         28/08/17           80         Backfill of Turbo Block         14 days         14/08/17         27/08/17         19/12/17           81         Turbo Block Superstructure         90 days         21/09/17         19/12/17           82         Beam & Slabs at G/F Area         90 days         28/08/17         25/11/17           83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/1         10/06/17           84         G/F & 1/F & Maintenance Floor         44 days         29/04/17         11/06/17	75					
78         Bearing Wall, Column Post and G/F Slab Construction         35 days         25/03/17         28/04/17           79         Turbo Block Foundation         45 days         15/07/17         28/08/17           80         Backfill of Turbo Block Superstructure         14 days         14/08/17         27/08/17           81         Turbo Block Superstructure         90 days         21/09/17         19/12/17           82         Beam & Slabs at G/F Area         90 days         28/08/17         25/11/17           83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/17         07/01/8           84         GIF & 1/F & Maintenance Floor         44 days         29/04/17         11/06/17         11/06/17	76					
79       Turbo Block Foundation       45 days       15/07/17       28/08/17         80       Backfill of Turbo Block Superstructure       14 days       14/08/17       27/08/17         81       Turbo Block Superstructure       90 days       21/09/17       19/12/17         82       Beam & Slabs at G/F Area       90 days       28/08/17       25/11/17         83       Associated ABWF & BS Works for Specialist Access       60 days       09/11/17       11/06/17						
80         Backfill of Turbo Block         14 days         14/08/17         27/08/17           81         Turbo Block Superstructure         90 days         21/09/17         19/12/17           82         Beam & Slabs at G/F Area         90 days         28/08/17         25/11/17           83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/17         07/01/18           84         G/F & 1/F & Maintenance Floor         44 days         29/04/17         11/06/17		<b>U</b>				
81         Turbo Block Superstructure         90 days         21/09/17         19/12/17           82         Beam & Slabs at G/F Area         90 days         28/08/17         25/11/17           83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/17         07/01/18           84         G/F & 1/F & Maintenance Floor         44 days         29/04/17         11/06/17						
Beam & Slabs at G/F Area         90 days         28/08/17         25/11/17           83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/17         07/01/18           84         G/F & 1/F & Maintenance Floor         44 days         29/04/17         11/06/17						
83         Associated ABWF & BS Works for Specialist Access         60 days         09/11/17         07/01/18           84         G/F & 1/F & Maintenance Floor         44 days         29/04/17         11/06/17						
84 G/F & 1/F & Maintenance Floor 44 days 29/04/17 11/06/17						
						ETERETERETERET A
	55		it udys	20/04/17	12/00/17	

9 0 1 <b>C.W</b>	e Erection of Steel Column along GL10-2 and 10-6 and 10-C to 10-H (G/F to R/F) for roof truss	Duration	Start	Finish	F M A M J
7 3 T 3 0 1 C.W.					
C.W.		14 days	09/05/17	22/05/17	F M A M J
) ) C.W.	R.C. Structure Construction	30 days	13/05/17	11/06/17	
0 1 <b>C.W</b> .	Transformer Area	111 days	07/08/17	25/11/17	
1 C.W.	Wall Construction	90 days	07/08/17	04/11/17	
	Slab & Plinths Construction /. Culvert System (Area C3)	21 days 236 days	05/11/17 18/12/16	25/11/17 10/08/17	
	Excavation to Formation Level	230 days 21 days	18/12/16	07/01/17	-1
	Penstock Trial & Preparation for connection to existing outlet pipe	21 days 21 days	18/12/16	07/01/17	
	Construction of Binding & Plinth	7 days	08/01/17	14/01/17	
	CW Pipe Laying	14 days	15/01/17	28/01/17	-
96 T	Thrust Box Construction	12 days	29/01/17	09/02/17	
	Nater Test	10 days	03/02/17	12/02/17	
	Backfill	14 days	13/02/17	26/02/17	
	All underground Utilities	45 days	27/02/17	12/04/17	
	Backfill & Reinstatement & Formation of Access	120 days	13/04/17	10/08/17	
Ext. & D	n D - Remaining of MSBU10, HRSG, A&A at L9 & L8, CW Pump Equip. Rm No. 4 Demolish Site Toilet	478 days	09/12/16	31/03/18	
	/ Culvert System (Area C5)	419 days	09/12/16	31/01/18	
	Excavation to Formation Level (-2.8mPD) with ELS Installation	30 days	09/12/16	07/01/17	_1
	Construction of Binding & Plinth	7 days	08/01/17	14/01/17	-1
	Pipe Laying (2 Pipes)	14 days	15/01/17	28/01/17	
	Construction of Thrust Box	21 days	29/01/17	18/02/17	
	Nater Test Backfill	7 days	20/02/17 27/02/17	26/02/17 12/03/17	
	All underground Utilities	14 days 125 days	13/03/17	15/07/17	
	Backfill & Reinstatement & Formation of Access	200 days	16/07/17	31/01/18	
	SG Area Fdn - North (Area C6)	340 days	26/04/17	31/03/18	
	Excavation to Formation Level	21 days	26/04/17	16/05/17	
	Drain Pit Construction (5no.1.6m to 6m in Height)	45 days	17/05/17	30/06/17	
	Pile Head Treatment (8no.)	16 days	15/06/17	30/06/17	
	MSB Fdn North of HRSG Area GL 10-H to 10H-H, 10-1to 10H-3	150 days	22/06/17	18/11/17	
	All underground Utilities	60 days	19/11/17	17/01/18	-
17 P	Plate Load Test	10 days	18/01/18	27/01/18	
18 R	Raft Fdn (1no.)	18 days	28/01/18	14/02/18	
	Backfill & Reinstatement & Formation of Access	45 days	15/02/18	31/03/18	
	n Station Building - Unit L10 Superstructure	337 days	29/04/17	31/03/18	
	2/F	44 days	13/05/17	25/06/17	$\overline{\nabla}$
22	Steel Beam Erection	14 days	13/05/17	26/05/17	
23	R.C. Structure Construction	14 days	12/06/17	25/06/17	
	3/F	51 days	27/05/17	16/07/17	
25	Steel Beam Erection R.C. Structure Construction	14 days	27/05/17	09/06/17	
		21 days 58 days	26/06/17 10/06/17	16/07/17 06/08/17	-1
27 44 28	Steel Beam Erection	14 days	10/06/17	23/06/17	
9	R.C. Structure Construction	21 days	17/07/17	06/08/17	
	5/F & Roof except GL 10-G to 10-H and 10-2 to 10-6	81 days	23/05/17	11/08/17	
30 <b>3</b> 1	Steel Roof Truss Erection (GL 10-D & 10-E)	7 days	23/05/17	29/05/17	
32	Steel Roof Truss Erection (GL 10-F & 10-G)	7 days	30/05/17	05/06/17	
33	Steel Roof & Crane Rail Erection	21 days	25/05/17	14/06/17	
34	Slab Construction	30 days	15/06/17	14/07/17	
5	Upper Roof - Steel Roof Erection	30 days	08/07/17	06/08/17	
36	Upper roof RC construction	21 days	22/07/17	11/08/17	-1
	Staircase Constructions	100 days	29/04/17	06/08/17	
	Fendolite Installation to S. Steel Works	90 days	07/08/17	04/11/17	-1
	External Metal Cladding Installation nternal ABWF Works	120 days 180 days	21/08/17 06/09/17	18/12/17 04/03/18	-1
	3S Installation	180 days	03/10/17	31/03/18	1
	kV Cable Trench (Area C5 &C6)	180 days	16/07/17	11/01/18	1
	275kV Cable Trench Excavation(C5 Area)	90 days	16/07/17	13/10/17	1
	275kV Cable Trench Excavation(C6 Area)	90 days	14/10/17	11/01/18	1
	B UnitL9 - A&A	140 days	12/06/17	29/10/17	
	Hack-off Lean Concrete	70 days	12/06/17	21/08/17	
	Pipe Rack Support Construction	70 days	21/08/17	29/10/17	
	B UnitL8 - A&A	150 days	09/04/17	06/09/17	
	A&A Works	150 days	09/04/17	06/09/17	
50 C.W.	/. Pump Equipment Room	364 days	01/04/17	31/03/18	

נ	Task Name	Duration	Start	Finish
_	BA 10 Application	0 days	01/04/17	01/04/17
	Excavation to + 4.05mPD	21 days	02/04/17	22/04/17
2 3	Plate Load Test	14 days	23/04/17	06/05/17
54	Raft Foundation Construction	18 days	07/05/17	24/05/17
255	Underground Drainage	21 days	25/05/17	14/06/17
256	Backfill	10 days	15/06/17	24/06/17
257 258	Construct G/F	21 days	25/06/17	15/07/17
258 259	Roof Construction	45 days 18 days	16/07/17 30/08/17	29/08/17 16/09/17
259 260	Parapet Wall ABWF Works	75 days	17/09/17	30/11/17
61	Building Service Installations	75 days	01/12/17	13/02/18
262	Extenal Pipe Rack Extension & Reinstatement Works	90 days	31/12/17	30/03/18
263	Ready for BA 13 Application	0 days	31/03/18	31/03/18
264	Demolition Work - Temporary Site Toilet	60 days	08/07/17	06/09/17
265	Demolition of Temp. Site Toilet	60 days	08/07/17	06/09/17
66	Section E - Middel Rd & South of L10. Expose & Construction New 275kV Trench at LM	336 days	15/06/17	16/05/18
67	275kV Cable Trench	240 days	16/07/17	12/03/18
268	275kV Cable Trench Re-excavation (~172m)	240 days	16/07/17	12/03/18
69	C.W. Culvert System (Area C9a & C15)	336 days	15/06/17	16/05/18
270 271	Removal of existing paving block Install ELS & Excaavation, Phase 1	12 days 45 days	15/06/17 27/06/17	26/06/17 10/08/17
71	Blinding & Construct Plinth	45 days 30 days	11/08/17	09/09/17
73	Pipe Laying & Thrust Box	30 days	10/09/17	09/10/17
74	Water Test and Backfill	12 days	10/10/17	21/10/17
275	Underground UU and Reinstatement	45 days	22/10/17	05/12/17
276	Install ELS & Excavation, Phase 2	45 days	06/12/17	19/01/18
277 278	Blinding & Concrete Plinth Pipe Laying and Thrust Box	30 days 30 days	20/01/18 19/02/18	18/02/18 20/03/18
278 279	Water Test & Backfill	12 days	21/03/18	01/04/18
280	Underground UU and Reinstatement	45 days	02/04/18	16/05/18
281	Section F -Urea Storage & Handling Factilies	488 days	01/05/17	31/08/18
282	Urea Handling & Storage Plant House, Electrical Room & Pipe Rack	488 days	01/05/17	31/08/18
283	BA 10 Application	10 days	01/05/17	10/05/17
284	Excavation to Formation Level	14 days	11/05/17	24/05/17
285	Plate Load Test	14 days	25/05/17	07/06/17
286	Raft Foundation (Urea HandIng Rm)	21 days	08/06/17	28/06/17
287	Raft Foundation (Electrical Rm)	30 days	29/06/17	28/07/17
288	Backfill	21 days	29/07/17	18/08/17
289 290	Construct G/F Roof Construction	45 days 75 days	19/08/17 03/10/17	02/10/17 16/12/17
90 91	Parapet Wall	21 days	17/12/17	06/01/18
91	ABWF Works	120 days	07/01/18	06/05/18
293	Building Service Installations	120 days	04/05/18	31/08/18
94	Ready for BA 13 Application	0 days	31/08/18	31/08/18
95	Plate Load Test	14 days	25/05/17	07/06/17
96	Pipe Rack Foundation	28 days	08/06/17	05/07/17
297	Supporting Tower (4 no.) (9.55m in Height)	60 days	06/07/17	03/09/17
298	Pipe Rack Truss (3 no. )17.3m Span	60 days	04/09/17	02/11/17
299	Section G - Demin. Plant Road & Modification at No. 4 CW Intake	273 days	01/01/18	30/09/18
00	C.W Culvert System (Area C9b)	272 days	01/01/18	30/09/18
01	Design, Approval & Consent	0 days	01/01/18	01/01/18
302	Removal of paving block & ELS Installation	30 days	02/01/18	31/01/18
303	Excavation to Formation Level with ELS Installation	45 days	01/02/18	17/03/18
304 305	Construction of Blinding & Plinth Pipe Laying (2 pipes x ~45m)	14 days 30 days	18/03/18 01/04/18	31/03/18 30/04/18
305	Construction of Thrust Box	14 days	01/04/18	14/05/18
307	Water Test	8 days	15/05/18	22/05/18
808	Backfill	21 days	23/05/18	12/06/18
309	All underground Utilities	50 days	13/06/18	01/08/18
10	Backfill & Reinstatement & Formation of Access	60 days	02/08/18	30/09/18
11	Modification Works - No. 4 C.W. Intake & No.3 C.W. Outfall	181 days	01/01/18	30/06/18
312	No. 3 C.W. Outfall Modification	90 days	01/01/18	01/04/18
313	No. 4 C.W. Intake Modification	122 days	01/03/18	30/06/18
314	Section H1 - Gas Support foundation & trench at Area C11	405 days	01/11/16	10/12/17
15	GRS Support Foundation	405 days	01/11/16	10/12/17

	Task Name	Duration	04	
18 19 20 21 22 23 24 25 26 27 28		Baration	Start	Finish
322 323 324 325 326 327 328	Temporary Protection, advance work etc	45 days	01/11/16	15/12/16
319       320       321       322       323       324       325       326       327       328	Gas Pipe Footing	180 days	16/12/16	13/06/17
320       321       322       323       324       325       326       327       328	Gas Pipe Trench	180 days	14/06/17	10/12/17 15/11/18
321 322 323 324 325 326 327 328	Section H2 - GRS Improvement work at Area C10	441 days	01/09/17	
322 323 324 325 326 327 328	GRS Area Improvement Works Retaining Wall Construction	441 days 90 days	01/09/17 01/09/17	15/11/18 29/11/17
323 324 325 326 327 328 329	Removal of Surcharge and Backfill		30/11/17	13/01/18
324 325 326 327 328		45 days		
325 326 327 328	Footing Construction	240 days	14/01/18	10/09/18
326 327 328	Topping up, finish and Misc. Works	66 days	11/09/18	15/11/18
327 328	Section H3 - L10 Chimney Flue and A&A L9 & pipe rack formation	318 days	01/01/18	15/11/18
328	No.4 Chimney Steel Flue	318 days	01/01/18	15/11/18
	Consent, documentation and site preparation	0 days	01/01/18	01/01/18
329	Steel Flue Preparation & installation	150 days	02/01/18	31/05/18
000	Install Steel Cover at Windshield	45 days	01/06/18	15/07/18
330	Install Steel Cover at Roof	30 days	16/07/18	14/08/18
331	Modification & Reinstatement Works	55 days	15/08/18	08/10/18
332	E & M Installation	38 days	09/10/18	15/11/18
333	MSB Unit 9 Pipe Rack Construction	90 days	01/04/18	29/06/18
334	Section I1 - Link Bridge & associated A&A	455 days	01/01/18	31/03/19
335	Link Bridge	455 days	01/01/18	31/03/19
336	Design & Shop Drawings	90 days	01/01/18	31/03/18
337	Access	0 days	17/11/18	17/11/18
338	Site preparation	14 days	18/11/18	01/12/18
339 340	Link Bridge between Unit L9 & L10	120 days	02/12/18	31/03/19
	Section I2 - Shunt Reactor SR4 Foundation	90 days	01/01/19	31/03/19
341	Shunt Reactor Compound SR4	90 days	01/01/19	31/03/19
342	Modification Work at Shunt Reactor SR4	90 days	01/01/19	31/03/19
343	Section I3 - All remaining work except deferred works	417 days	08/02/18	31/03/19
344	Remaining Works	417 days	08/02/18	31/03/19
345	Demolition of Canopy @ Jetty Guard Hose & Toilet)	30 days	02/08/18	31/08/18
346	Demolition of Existing Contractor Shed	60 days	01/09/18	30/10/18
347	Seurity Fence Erection	20 days	31/10/18	19/11/18
348	All External Works & Road Works	417 days	08/02/18	31/03/19
349	Deferred Works - L10 MSB and HRSG	417 days	08/02/18	31/03/19
350	Construction of L10 MSB Roof BetweenGL 10-G to 10-H and 10-2 to 10-6 After the Overhead Crane Installation	52 days	08/02/18	31/03/18
351	Construction of Walls and Ceilings of Lube Oil Tank Room at L10 MSB	92 days	01/05/18	31/07/18
352	Construction of Walls of L10 MSB Below Level +18mPD along GL10-6 form GL10-F to 10-H and Walls of L10 MSB along GL10-H from GL10-5 to 10-6 including the associated Building Elements	92 days	01/05/18	31/07/18
353	Construction of Walls of L10 MSB Below 1/F along GL10-6 from GL10-B to10-C and the associated Staircases including the Enclosure Walls between G/F and 1/F.	184 days	01/05/18	31/10/18
354	Construction of Internal Partition Wall at 1/F of L10 MSB along GL10-C from GL10-2 to 10-3	32 days	15/05/18	15/06/18
355	Removal of Temporary Paving Within L10 HRSG Area to Expose all respective Equipment Foundations	14 days	01/08/18	14/08/18
356	Construction of Foundation Plinths and Walls of Lube Oil Storage Tank	93 days	15/08/18	15/11/18
357	Construction of Metal Fence and the associated Fire Services Installations and Installation of Removable Shelter Transformer Area	121 days	01/12/18	31/03/19
358	Deferred Works - External Works	182 days	01/10/18	31/03/19
359	Final Reinstatement of Access Roads and Pavement Surrounding and within L10 MSB	151 days	01/10/18	28/02/19
	and L10 HRSG Area	-		
360	FSD Inspection	14 days	02/03/19	15/03/19
361	BD OP Inspection	14 days	18/03/19	31/03/19
362	Section J - Cable Route CPX1&2 cable diversion & whole of work except deferred works to be carried out in DLP	1127 days	01/05/17	31/05/20
363	275kV Cable Diversion	1127 days	01/05/17	31/05/20
364	Part I (1km in Length, 1.1m to 1.5m Deep) (Works in existing Trench)	426 days	01/05/17	30/06/18
365	Tentative Commencement Date Of Civil Works	0 days	01/05/17	01/05/17
366 367	Implementation of TTA Remove the Concrete Road Cover	7 days 60 days	01/05/17 08/05/17	07/05/17 06/07/17

ID Teak	b. 16/8002 Lamma Power Station Extension Civil and Building Unit L10			
ID Taski	Name	Duration	Start	Finish
368	Cable Trench Re-excavation	208 days	07/06/17	31/12/17
369	Completion Date of Trench Excavation for Site Handover	0 days	31/12/17	31/12/17
370	Tentative Period for Backfilling and Road Reinstatement (Excluding Joint Bay and Trench at Station Road)	91 days	01/04/18	30/06/18
371	Part II (630m in Length, 1.1m to 1.5m Deep) (Works in existing Trench)	485 days	01/11/17	28/02/19
372	Tentative Commencement Date Of Civil Works	0 days	01/11/17	01/11/17
373	Implementation of TTA	7 days	01/11/17	07/11/17
374	Remove the Concrete Road Cover	32 days	08/11/17	09/12/17
375	Trench Excavation and Installation of Road Decking at Joint Bay (Including Part I & II)	90 days	25/11/17	22/02/18
376	Cable Trench Re-excavation	190 days	23/02/18	31/08/18
377	Completion Date of Trench Excavation for Site Handover	0 days	31/08/18	31/08/18
378	Tentative Period for Backfilling and Road Reinstatement (Including Joint Bay at Part	90 days	01/12/18	28/02/19
379	I, but excluding Joint Bay SJ3)	-	01/07/18	30/11/19
	Part III (400m in Length, 1.3m to 1.5m Deep) (Works in New Trench)	518 days	01/07/16	30/11/19
380	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18
381	Implementation of TTA	7 days	01/07/18	07/07/18
382	Remove the Concrete Road Cover	30 days	08/07/18	06/08/18
383	Cable Trench Excavation with shoring	270 days	07/08/18	03/05/19
384	Construction of New Joint Bay	28 days	04/05/19	31/05/19
385	Completion Date of Trench Excavation for Site Handover	0 days	31/05/19	31/05/19
386	Tentative Period for Backfilling and Road Reinstatement (excluding new slab but including SJ3)	91 days	01/09/19	30/11/19
387	Part IV (Hand Dig Tunnel)	701 days	01/07/18	31/05/20
388	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18
389	Excavation to Approx. +5mPD	30 days	01/07/18	30/07/18
390	Existing Drainage Diversion	50 days	31/07/18	18/09/18
391	Construction of New Cable Joint Bay	30 days	19/09/18	18/10/18
392	Ramp Trench	75 days	19/10/18	01/01/19
393	Formation of Temp. Cable Pit	45 days	02/01/19	15/02/19
394	Hand Dig Tunel (17.6m) (0.2~0.3m/day)	75 days	16/02/19	01/05/19
395	Excavation for Duct Bank Construction	60 days	02/05/19	30/06/19
396	Completion Date of Trench Excavation for Site Handover	0 days	30/06/19	30/06/19
397	Deferred Works - Cable Diversion CPX1 and CPX2 (during DLP)	274 days	01/09/19	31/05/20
398	Formation of Wall Opening between existing trench CPX1 and new Joint Bay	7 days	01/09/19	07/09/19
399	Breaking up for Road Paving and Excavation down to Cable Tiles of Existing Trench CPX2	31 days	01/12/19	31/12/19
400	Demolition of Existing Trench CPX1 and CPX2	30 days	01/04/20	30/04/20
401	Final Reinstatement of the CPX1 and CPX2 Areas	31 days	01/05/20	31/05/20
402	Deferred Works - Shunt Reactor Compound SR4 (during DLP)	153 days	01/07/19	30/11/19
403	Trench Re-excavation and Cable Supports Installation for Shunt Reactor	62 days	01/07/19	31/08/19
404	Compound SR4 Backfilling and Road Re-instatement of Shunt Reactor SR4 and Associated	30 days	01/11/19	30/11/19
-0-	Trench	50 days	01/11/13	30/11/13

#### SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

#### Contract No. 16/8015 - Lamma Power Station Extension Foundation Works for Unit L11

ID	Task Name	Duration	Start	Finish	2017年
					M3 M4 M5
	Key Date	455 days	2016/12/21	2018/3/20	二月 三月 四月
	Commencement date	0 days	2016/12/21	2016/12/21	
	Duration of works	455 days	2016/12/21	2018/3/20	
	Site possession date	0 days	2016/12/21	2016/12/21	
	Completion of the Contract	0 days	2018/3/20	2018/3/20	
		e daje	LUTURILU	2010/0/20	
-	Submission & Works Commenced Before the Contract	231 days	2016/11/14	2017/7/2	
в	Prelimiminaries	75 days	2016/11/14	2017/1/27	1
,	Coordination with utility companies	14 days	2016/12/14	2016/12/27	
10	Condition survey	1 day	2016/12/14	2016/12/14	
1	Notification of commencement of works to Labour Department	1 day	2016/12/19	2016/12/19	
2	Notification of air pollution control for commencement of works to EPD	1 day	2016/12/19	2016/12/19	
3	Application of water discharge licence from EPD	14 days	2016/12/12	2016/12/25	
F	Application for billing account for disposal of construction waste from EPD	7 days	2016/12/12	2016/12/18	
5	CCTV for existing underground drainage pipe around site boundary	12 days	2017/1/16	2017/1/27	
5	Erection of contractor's site office	21 days	2016/12/14	2017/1/3	
7	Installation of monitoring checkpoints	2 days	2016/12/13	2016/12/14	
3	Submission of BA10 for foundation works	0 days	2016/11/14	2016/11/14	
9			122222000000		
0	Predrilling Works	51 days	2016/11/23	2017/1/12	
1	Drilling rigs mobilization (6 rigs)	1 day	2016/12/22	2016/12/22	
2	Predrilling works	31 days	2016/11/23	2016/12/23	
3	Submission of predrill logs	16 days	2016/12/28	2017/1/12	
4	Completion of predrilling works	0 days	2017/1/12	2017/1/12	
6	Plant Mobilization for Bored Pile Construction	207 days	2016/12/8	2017/7/2	
7	Crawler Crane	86 days	2016/12/8	2017/3/3	
8	1st & 2nd set	1 day	2016/12/8	2016/12/8	
9	3rd & 4th set	1 day	2017/1/6	2017/1/6	
0	5th & 6th set	7 days	2017/2/25	2017/3/3	O C
1	Oscillator	206 days	2016/12/9	2017/7/2	3
2	1st & 2nd set	4 days	2016/12/9	2016/12/12	
3	3rd & 4th set	2 days	2017/1/7	2017/1/8	
4	5th set	7 days	2017/3/4	2017/3/10	D
5	6th set	7 days	2017/6/26	2017/7/2	
6	RCD	84 days	2017/1/7	2017/3/31	
17	1st & 2nd set	7 days	2017/1/7	2017/1/13	
88	3rd & 4th set	7 days	2017/1/21	2017/1/27	
9	5th & 6th set ( Optional if necessary)	7 days	2017/3/25	2017/3/31	<b>e</b> •
10	Completion of plant mobilization for bored pile construction	0 days	2017/3/31	2017/3/31	*
1					
2	Delivery of Temporary Steel Casing for Bored Pile Construction	192 days	2016/12/21	2017/6/30	
13	Duration for delivery of temporary steel casing	192 days	2016/12/21	2017/6/30	
14	Completion of delivery of temporary steel casing for bored pile construction	0 days	2017/6/30	2017/6/30	
5					
6	Total Contract Period	455 days	2016/12/21	2018/3/20	
7					
8	Section A	315 days	2016/12/21	2017/10/31	
9	Delivery of Permanent Casing & Double Wall Liner	270 days	2016/12/21	2017/9/16	
0	Testing for double wall liner (subject to HEC's request)	45 days	2016/12/21	2017/2/3	
Ĵ	ter Programme Task Critical Task	Milestone	*	Summary 🛡	

Appendix J

#### SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

#### Contract No. 16/8015 - Lamma Power Station Extension Foundation Works for Unit L11

ID i	Fask Name	Duration	Start	Finish	2017年
					M3 M4 M5
					二月 三月 四月
51 52	Duration for delivery of permanent casing & double wall liner	240 days	2017/1/20	2017/9/16	
52 53	Bored Pile Construction (22 piles)	315 days	2016/12/21	2017/10/31	
	1st set - G2 > G1 > G4 > G3 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	186 days	2016/12/21	2017/6/24	
4	G2	45 days	2016/12/21	2017/2/3	
5	G1	46 days	2017/2/4	2017/3/21	
56	G4	50 days	2017/3/22	2017/5/10	
57	G3	45 days	2017/5/11	2017/6/24	
8	2nd set - G7 > G5 > G6 > BP26 > BP20 > BP23 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	283 days	2016/12/21	2017/9/29	
9	G7	45 days	2016/12/21	2017/2/3	2
50	G6	43 days	2017/2/4	2017/3/18	
51	G5	48 days	2017/3/19	2017/5/5	
52	BP26	46 days	2017/5/6	2017/6/20	
3	BP20 (required after 1 July 17)	44 days	2017/7/3	2017/8/15	
64	BP23 (required after 1 July 17)	45 days	2017/8/16	2017/9/29	
55	3rd set - BP5 > BP1 > BP13 > BP9 > BP17 (1 crane operator, 1 oscillator operator, 2 RCD operators, 4 riggers & 2 welders)	135 days	2017/1/9	2017/5/23	
6	BP5	45 days	2017/1/9	2017/2/22	
37	BP1	50 days	2017/1/27	2017/3/17	
8	BP13	45 days	2017/2/23	2017/4/8	
9	BP9	50 days	2017/3/18	2017/5/6	
0	BP17	45 days	2017/4/9	2017/5/23	
1	4th set - G10 > G8 > G9 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	136 days	2017/1/16	2017/5/31	
2	G10	45 days	2017/1/16	2017/3/1	
3	G8	45 days	2017/3/2	2017/4/15	
4	G9	46 days	2017/4/16	2017/5/31	
5	5th set - BP8 > BP4 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	85 days	2017/7/3	2017/9/25	
76	BP8 (required after 1 July 17)	41 days	2017/7/3	2017/8/12	
77	BP4 (required after 1 July 17)	43 days	2017/8/14	2017/9/25	
8	6th set - BP12 > BP16 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	87 days	2017/7/3	2017/9/27	
79	BP12 (required after 1 July 17)	46 days	2017/7/3	2017/8/17	
30	BP16 (required after 1 July 17)	41 days	2017/8/18	2017/9/27	
1	Interface & sonic test	30 days	2017/9/7	2017/10/6	
2	Prepare & submit as-built record plan	7 days	2017/9/30	2017/10/6	
33	Submission of BA14	1 day	2017/10/7	2017/10/7	
4	Allow 14 days for selection of pile for concrete full core test	14 days	2017/10/8	2017/10/21	
15	Concrete full core test	10 days	2017/10/22	2017/10/31	
6	Completion of bored pile construction	0 days	2017/10/31	2017/10/31	
17	Sheet Pile	163 days	2017/5/22	2017/10/31	
18	Plant mobilization (1 rig) (1 operator, 4 riggers & 4 welders)	7 days	2017/8/13	2017/8/19	
9	Delivery of sheet pile material	90 days	2017/5/22	2017/8/19	
0	Installation of sheet pile - Type B (approx. 80 piles)	65 days	2017/8/20	2017/10/23	
1	Prepare & submit as-built record plan	7 days	2017/10/24	2017/10/30	
92	Submission of BA14		2017/10/31	2017/10/31	
		0 00,0	Lottrioidi		
93 94 Íaste	Submission of BA14 Completion of sheet pile Completion of section A r Programme 3 (14 Jan 2017 )	1 day 0 days 0 days Milestone	2017/10/31 2017/10/31 2017/10/31	2017/10/31 2017/10/31 2017/10/31 Summary	

Appendix J

#### SUNLEY ENGINEERING & CONSTRUCTION CO., LTD.

#### Contract No. 16/8015 - Lamma Power Station Extension Foundation Works for Unit L11

	ask Name	Duration	Start	Finish	2017年	201
	uan munic	Duration	Otan	T man	2017年 M3 M4 M5	2018
					二月 三月 四月	
				1000313-01797755827		
	Section B	455 days	2016/12/21	2018/3/20		
	Delivery of Permanent Casing & Double Wall Liner	390 days	2016/12/21	2018/1/14		
	Testing for double wall liner (subject to HEC's request)	45 days	2016/12/21	2017/2/3		
	Duration for delivery of permanent casing & double wall liner	305 days	2017/3/16	2018/1/14		
	Bored Pile Construction (16 piles)	373 days	2017/3/13	2018/3/20		
	1st set - BP21 > BP22 > BP18 > BP19 > BP15 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	227 days	2017/6/25	2018/2/6		
	BP21	46 days	2017/6/25	2017/8/9		
Ξ	BP22	45 days	2017/8/10	2017/9/23		
	BP18	45 days	2017/9/25	2017/11/8		
-	BP19	45 days	2017/11/9	2017/12/23		
	BP15	45 days	2017/12/24	2018/2/6		
	3rd set - BP14 > BP11 > BP29 > BP6 > BP7 (1 crane operator, 1 oscillator operator, 2 RCD operators. 4 riggers & 2 welders)	137 days	2017/5/7	2017/9/20		
	BP14	46 days	2017/5/7	2017/6/21		
_	BP11	45 days	2017/5/24	2017/7/7		
	BP29	45 days 45 days	2017/5/24	2017/8/5		
_	BP29 BP6	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
_		45 days	2017/7/8	2017/8/21		
	BP7	46 days	2017/8/6	2017/9/20		
	4th set - BP27 > BP28 > BP25 > BP24 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	182 days	2017/6/1	2017/11/29		
	BP27	45 days	2017/6/1	2017/7/15		
	BP28	46 days	2017/7/16	2017/8/30		
	BP25	45 days	2017/8/31	2017/10/14		
	BP24	46 days	2017/10/15	2017/11/29		
	5th set - BP10 > BP3 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers & 2 welders)	94 days	2017/3/13	2017/6/14		
	BP10	45 days	2017/3/13	2017/4/26	GTTTTTTD	
	BP3	44 days	2017/5/2	2017/6/14	Tuduchadaudaudaudaudau	
	Interface & sonic test	30 days	2018/1/18	2018/2/16		
į	Prepare & submit as-built record plan	7 days	2018/2/17	2018/2/18		
	Submission of BA14	1 day	2018/2/17	2018/2/23		
-	Allow 14 days for selection of pile for concrete full core test	14 days	2018/2/24	2018/2/24		
-	Concrete full core test	*	2018/2/25			
-		10 days	2018/3/11	2018/3/20		
_	Completion of bored pile construction	0 days		2018/3/20		
	Sheet Pile	235 days	2017/7/10	2018/3/1		
	Delivery of sheet pile material Installation of sheet pile – Type A (approx. 192 piles) (1 rig mobilized after completion of sheet pile of Type B) (1 operator, 4 riggers & 4 welders)	90 days 45 days	2017/7/10 2017/10/24	2017/10/7 2017/12/7		
)	Installation of sheet pile - Type C (approx. 325 piles) (1 rig mobilized after completion of sheet pile of Type A) (1 operator, 4 riggers & 4 welders)	76 days	2017/12/8	2018/2/21		
1	Prepare & submit as-built record plan	7 days	2018/2/22	2018/2/28		
	Submission of BA14	1 day	2018/3/1	2018/3/1		
	Completion of sheet pile	0 days	2018/3/1	2018/3/1		
_	Completion of section B	0 days	2018/3/20	2018/3/20		
	Completion of Section D	U uays	2010/3/20	2010/3/20		
	Our track a second at least	0.4	0010/0/00	0040/0/00		
-	Contract completion	0 days	2018/3/20	2018/3/20		

#### Monthly Waste Flow Table for January 2017

Project: Foundation Works for Lamma Power Station Extension Unit L10

Contractor: Sunley Engineering & Construction Co Ltd

Record by: Andy Fan

Year of Record: 2017

MM.YYYY		Actual Qu	antities of I	nert C&D Ma	aterials Ge	enerated I	Monthly		Actual Q	uantities of N	Non-inert C&I	O Materials	Generated	Monthly	
	Exca	vated Mater	ials	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		Metals (steel bar / metal strip) <sup>(1)</sup>	Metals (aluminum can) <sup>(1)</sup>	Paper / cardboard packaging <sup>(1)</sup>	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse	Remarks
	(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 '000kg)	(in '000kg)	
Jan 2016	0.00	0.00	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 2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86	
Mar-2016	2382.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	
Apr-16	3888.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	
May-16	7139.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.90	
Jun-16	9323.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	Notes 7
Jul-16	12248.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	Notes 7
Aug-16	7009.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.76	
Sep-16	7871.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.26	
Oct-16	3287.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.46	
Nov-16	3142.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.36	
Dec-16	4826.16	0.00	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-17	6758.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	3.16	
Total	67877.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	41.96	I

Total Inert C&D Waste Materials	I	Non-inert C&D Material	s
Generated	C&D Materials Recycled	C&D Waste Disposed of at Landfill	Chemical Waste
67877.49 tonnes	0.00 tonnes	41.96 tonnes	0.24 tonnes

Where (A) Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, 67877.49 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

67877.49 tonnes were disposed as public fill to Fill Banks.

(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) \_\_\_\_\_\_kg of metals, \_\_\_\_\_kg of papers/ cardboard packing and \_\_\_\_\_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.

(7) The quantities of excavated materials disposed in landfill for June & July 2016 are revised.

#### Monthly Waste Flow Table for January 2017

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

Contractor: Paul Y. Construction Company, Limited

Record by: Ben Lam

Year of Record: 2016 & 2017

MM.YYYY		Actual Q	uantities of	Inert C&D N	laterials C	Generated	Monthly		Actual Quantities of Non-inert C&D Materials Generated Monthly						
	Exc	avated Mate	erials		Non-exc	cavated M	laterials								
	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) <sup>(1)</sup>	Metals (aluminum can) <sup>(1)</sup>	Paper / cardboard packaging <sup>(1)</sup>	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/oil container)	Other, e.g. general refuse	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in '000kg)	
Jan 2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Feb 2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mar-2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Apr-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
May-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Jun-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Jul-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aug-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sep-16	-	-	-	-	-	-	•	-	-	-	-	-	-	-	
Oct-16	-	-	-	-	-	-		-	-	-	-	-	-	-	
Nov-16	1779.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Dec-16	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.48	
Jan-17	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	
Feb-17															
Total	1779.48	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	20.48	

#### CHIT ticket was returned after cut off day last

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					
1780.91 tonnes	0.00 tonnes	20.48 tonnes	200 Liters					

- Where
   (A)
   Inert C&D materials include bricks, concrete, building debris, rubble and excavated spoil. In total, <u>1780.91</u> tonnes of inert C&D material were generated from the Project, of which <u>0</u> tonnes were reused in this and other contracts, and the remaining <u>1780.91</u> tonnes were disposed as public fill to Fill Banks / Sorting Facilities.
  - (b) Non-inert C&D materials (construction wastes) include metals, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Metals generated from the Project were grouped into construction wastes as the materials were not disposed of with others at the public fill.
  - (c) 0 kg of metals, 0 kg of papers/ cardboard packing and 0 kg of plastics were sent to recyclers for recycling during the reporting period.

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

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

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

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

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

(5) Broken concrete for recycling into aggregates.

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

#### Monthly Waste Flow Table for January 2017

Project: Foundation Works for Lamma Power Station Extension Unit L11

Contractor: Sunley Engineering & Construction Co Ltd

Record by: Andy Fan

Year of Record: 2017

MM.YYYY		Actual Q	uantities of	Inert C&D N	Aterials G	Generated	Monthly		Actual Q	uantities of N	on-inert C&I	D Materials	Generated	Monthly
	Exc	avated Mate	erials	Non-excavated Materials										
	Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Concrete or	the	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip) <sup>(1)</sup>	Metals (aluminum can) <sup>(1)</sup>	Paper / cardboard packaging <sup>(1)</sup>	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 '000kg)	(in '000kg)
Nov-2016	0.00	0.00	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-2016	0.00	0.00	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-2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00

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

- 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 disposed as public fill to Fill Banks.
  - (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.

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