Civil Engineering and Development Department

Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works Design and Construction

Monthly EM&A Report (Version 1.0)

May 2017

Approved By	(Dr. Priscilla Choy, Environmental Team Leader)
REMARKS:	

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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EXECUTIVE SUMMARY

Introduction

- This is the 7th Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction" (hereinafter called "the Project"). This report documents the findings of EM&A Works conducted in 1 – 31 May 2017.
- 2. During the reporting month, the major site activities undertaken in the reporting month included:
- Site Clearance in Portions G, J and N;
- Construction of wheel washing facilities in Portions B;
- Ground investigation in Portions F, H and J;
- Construction of RC structure and public toilet in Portion L;
- Tree felling in Portions G, J and N;
- Construction of retaining wall in Portions C, D and E;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portion G, H and N;
- Earth and drainage works in Portions A, B, J and K;
- Construction of U-channel in Portion B; and
- Construction of rectangular channel in Portion E.

Environmental Monitoring Works

- 3. Environmental monitoring for the Project shall be performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the non-compliance in the reporting month for the Project is tabulated in Table I.

Parameter	No.	of Exceedar	ice	Action Taken
	Action Level		Limit Level	Такен
Noise	0		0	N/A

 Table I
 Non-compliance Record for the Project in the Reporting Month

Key Information in the Reporting Month

5. Summary of key information in the reporting month is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Month

Event	Ev	vent Details	Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Environmental License and Permits

- 6. Licenses/Permits granted to the Project include:
 - Environmental Permits (EP) for the Project,
 - EP-450/2013 issued on 30 May 2013 and EP-450/2013/A issued on 25 August 2015; and
 - EP-501/2015 issued on 2 September 2015
 - Billing Account for Waste Disposal (Acc No.: 7025411)

Future Key Issues

- 7. The future key environmental issues in the coming two months include:
 - Wastewater and runoff generation on-site;
 - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for excavation works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
 - Water spraying for dust generating activities and on haul road;
 - Proper storage of construction materials on-site;
 - Storage of chemicals/fuel and chemical waste/ waste oil on-site;
 - Accumulation of general refuse and construction waste on-site; and
 - Protection measures for retained trees on-site.

1 INTRODUCTION

Background

- 1.1 "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River" (the EIA Report) is a Schedule 2 Designated Project (DP) under Environmental Impact Assessment Ordinance (EIAO). The Environmental Impact Assessment (EIA) Report (Registered No.: AEIAR-133/2009) and the associated Environmental Monitoring and Audit (EM&A) Manual was approved on 12 March 2009.
- 1.2 Civil Engineering and Development Department (CEDD) implemented the DP in two stages, i.e. Stage 1 and Stage 2. An Environmental Permit (EP) No. EP-450/2013 has been granted for Stage 1 works on 30 May 2013. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-450/2013) based on the Application No. VEP-478/2015 and the EP (Permit No. EP-450/2013/A) was issued on 25 August 2015 to CEDD as the Permit Holder.
- 1.3 An Environmental Review (ER) Report of the "Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River Stage 2" had been prepared in July 2015 and the Environmental Monitoring and Audit Manual (EM&A Manual) was also included as part of the ER report in the application (Application No.: AEP-501-2015). An Environmental Permit No. EP-501/2015 was issued on 2 September 2015 for Stage 2 works to CEDD as the Permit Holder.
- 1.4 "Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui Remaining Works Design and Construction" (hereinafter called the "Project") covers the Stage 1 (Part) and Stage 2 works of the DP. This Project was commissioned to Sang Hing Kuly Joint Venture (hereinafter called the "Contractor") for "Contract No.: YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui Remaining Works". The site location and work programme are shown in Figure 1a-1h and Appendix A respectively.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of the Project was on 23th November 2016. This is the 7th Monthly EM&A Report summarizing the EM&A works for the Project from 1 31 May 2017.

Project Organizations

1.6 Different parties with different levels of involvement in the project organization include:

Project Proponent – Civil Engineering and Development Department (CEDD) Supervisor Representative – Mannings (Asia) Consultants Limited (Mannings) Environmental Team (ET) – Cinotech Consultants Limited (Cinotech) Independent Environmental Checker (IEC) – ANewR Consulting Limited (ANewR) Contractor – Sang Hing – Kuly Joint Venture (SKJV)

1.7 The Organizational Structure for Environmental Management is shown in **Figure 3**.

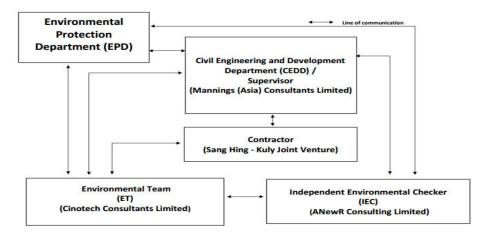


Figure 3 Organization Structure (Environmental Aspects)

1.8 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts				
Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Chu Wai Lun, Thomas	2417 6370	2412 0358
Mannings	Supervisor Representative	Mr. Simon Ng	3168 2028	3168 2022
Circotosh	Environmental	Dr. Priscilla Choy	2151 2089	2107 1299
Cinotech	Team	Ms. Ivy Tam	2151 2090	3107 1388
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648
SKJV	Contractor	Mr. Michael Wan	9222 3089	N/A

Table 1.1Key Project Contacts

Construction Activities undertaken during the Reporting Month

- 1.9 The major site activities undertaken in the reporting month included:
- Site Clearance in Portions G, J and N;
- Construction of wheel washing facilities in Portions B;
- Ground investigation in Portions F, H and J;
- Construction of RC structure and public toilet in Portion L;
- Tree felling in Portions G, J and N;
- Construction of retaining wall in Portions C, D and E;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portion G, H and N;
- Earth and drainage works in Portions A, B, J and K;
- Construction of U-channel in Portion B; and
- Construction of rectangular channel in Portion E.

1.10 The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in **Table 1.2**.

Table 1.2Construction Programme Showing the Inter-Relationship with
Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	 Sufficient watering of the works site with active dust emitting activities Properly cover the stockpiles On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment with valid Discharge License before discharge Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall Use of quiet plant and well-maintained construction plant Provide movable noise barrier Proper wheel washing for construction vehicles before leaving the site Provide sufficient mitigation measures as recommended in Approved EM&A Manual/Lease requirement

Summary of EM&A Requirements

1.11 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:

All monitoring parameters; Action and Limit levels for all environmental parameters; Event and Action Plans; Environmental mitigation measures, as recommended in the EIA Reports, Environmental Review Reports and EM&A Manuals

- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required noise monitoring and audit works for the Project in 1 31 May 2017.

2 AIR QUALITY

Monitoring Requirements

- 2.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no air quality monitoring is required for the Project.
- 2.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

3 WATER QUALITY

Monitoring Requirements

- 3.1 According to the approved EM&A Manuals for Stage 1 works and Stage 2 works in Year 2015, no water quality monitoring is required for the Project.
- 3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix G**.

4 NOISE

Monitoring Requirements

- 4.1 In accordance with approved EM&A Manuals for Stage 1 works in Year 2015, no noise impact monitoring is required for Stage 1 works of the Project.
- 4.2 According to approved EM&A Manual for Stage 2 works (Year 2015), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities under the Stage 2 works of the Project. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

4.3 Noise monitoring was conducted at 6 designated monitoring stations (N1, N2, N3, N5, N6 and N7) in the reporting month. Figures 2a − 2c shows the locations of these stations.

Monitoring Stations	Locations	Location of Measurement
N1	HKMLC Wong Chan Sook Ying Memorial School	Rooftop (about 5/F) area
N2	Bethel High School	Rooftop (about 4/F) area
N3	No. 159 Mai Po San Tsuen	G/F area
N5	Block 2, Dills Corner Garden	G/F area
N6	Home of Loving Faithfulness	Rooftop (about 3/F) area
N7	Village House in Shek Wu Wai	G/F area

Table 4.1Noise Monitoring Stations

Monitoring Equipment

- 4.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications.
- 4.5 Acoustic Calibrator was used to check the accuracy of the sound level meter. The calibrators generate a continuous and highly stable sound pressure level at known frequency of 1 kHz that also complied with IEC 942: 1988 Class 1 specifications. Table 4.2 summarizes the noise monitoring equipment in reporting period. Copies of calibration certificates are provided in Appendix C.

Table 4.2Noise Monitoring Equipment

	Equipment	Model and Make	Qty.
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Integrating Sound Level Meter	SVAN 955, 957, 977	3
Acoustic Calibrator	SV30A, B&K 4231	2

Monitoring Parameters and Frequency

4.6 **Table 4.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Monitoring Stations	Parameter	Period	Frequency	Measurement	
N1				Façade	
N2	$\begin{bmatrix} 1 & (20 & m^2 m^2) & dD(A) \end{bmatrix}$	0700 1000 h		Façade	
N3	$L_{eq}(30 \text{ min.}) dB(A)$ $L_{10}(30 \text{ min.}) dB(A)$	on normal	Once nor week	Free Field	
N5	$L_{90}(30 \text{ min.}) \text{ dB(A)}$		weekdays	Once per week	Free Field
N6		weekuays		Façade	
N7				Free Field	

 Table 4.3
 Frequency and Parameters of Noise Monitoring

Monitoring Methodology and QA/QC Procedures

- 4.7 The monitoring procedures are as follows:
 - The monitoring station were normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
 - The battery condition was checked to ensure the correct functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting: A
 - time weighting : Fast
 - measurement time : 30 minutes
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
 - At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, noise sources were recorded on a standard record sheet.
 - Noise measurement would be paused temporarily during periods of high intrusive noise if possible and observation would be recorded when intrusive noise was not avoided.
 - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

4.8 The microphone head of the sound level meter and calibrator were cleaned with a soft

cloth at quarterly intervals.

- 4.9 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 4.10 Immediately prior to and following each noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 4.11 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in the reporting month is shown in **Appendix F**.
- 4.12 The baseline noise level and the Noise Limit Level at each designated noise monitoring stations are presented in **Table 4.4**.
- 4.13 Noise monitoring results and graphical presentations are shown in Appendix E.

Monitoring Stations	Locations	Other Noise Source(s)
N1	HKMLC Wong Chan Sook Ying Memorial School	Road traffic noise Noise from daily school activities
N2	Bethel High School	Road traffic noise Noise from daily school activities
N3	No. 159 Mai Po San Tsuen	Road traffic noise
N5	Block 2, Dills Corner Garden	Road traffic noise
N6	Home of Loving Faithfulness	Road traffic noise Noise from activities at the premise and workshops near the premise
N7	Village House in Shek Wu Wai	Road traffic noise Noise from activities at workshops near the village house

4.14 The other noise sources identified which might affect the noise monitoring results at the designated noise monitoring stations are as follows:

Table 4.4	Baseline Noise	Level and Noise	Limit Level for	Monitoring Stations
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Station	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)
N1	62.2 (at 0700 – 1900 hrs on normal weekdays)	70* (at 0700 – 1900 hrs on
N2	55.2 (at 0700 – 1900 hrs on normal weekdays)	

N3	68.8 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N5	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
N6	72.0 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)
M7	70.7 (at 0700 – 1900 hrs on normal weekdays)	75 (at 0700 – 1900 hrs on normal weekdays)

(*) Noise Limit Level is 65 dB(A) during school examination periods.

5 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

5.1 The EM&A data was compared with the predictions in EIA Report (Year 2009) and Environmental Review Report (ERR) for Stage 2 Works (Year 2015) as summarized in **Table 5.1**.

Stations	Predicted Mitigated Construction Noise Levels in EIA (2009), dB(A)	Predicted Mitigated Worst Case Construction Noise Levels in ERR for Stage 2 (2015), dB(A)	Reporting Month (May 17), L _{eq (30min)} dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 ⁽¹⁾	45.9 - 62.8
N2 – Bethel High School	57-64	64 ⁽¹⁾	50.2 - 64.3
N3 – No. 159 Mai Po San Tsuen	70-73	74 ⁽²⁾	65.3 - 70.8
N5 – Block 2, Dills Corner Garden	73-75	75 ⁽²⁾	66.1 - 71.3
N6 – Home of Loving Faithfulness	64-73	74 ⁽¹⁾	62.9 - 68.5
N7 – Village House in Shek Wu Wai	N/A ⁽³⁾	70 ⁽²⁾	70.3 - 71.6

Table 5.1	Comparison	of Noise	Monitoring	Data with	Predictions	in EIA
Report and E	RR					

Remark:

(1) With adoptions of quiet PMEs, temporary noise barrier and enclosure

(2) With sub-grouping of construction activities

(3) No construction noise level was predicted in EIA Report (2009)

- 5.2 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results in the reporting month at monitoring stations N1 and N2 were slightly higher than the predicted mitigated construction noise levels in the EIA Report. The results at N3 and N6 were within the range of the predicted mitigated construction noise levels in the EIA Report. The results in the EIA Report. The result at N5 was lower than the range of prediction in the EIA Report.
- 5.3 When comparing the noise monitoring results to the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works, the results at monitoring stations N3, N5 and N6 were lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works. The noise monitoring result at monitoring station N1, N2 and N7 were slightly higher than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works.

6 ECOLOGY AND FISHERIES

- 6.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, no specific ecological or fisheries monitoring is required during the construction phase of the Project.
- 6.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of ecology and fisheries mitigation measure. The summaries of site audits are attached in **Appendix G**.

7 LANDSCAPE AND VISUAL IMPACT

- 7.1 In accordance with the EM&A Manuals for Stage 1 and Stage 2 works in Year 2015, regular audits should be carried out to ensure all the recommended landscape and visual mitigation measures in EIA Report, Environmental Review Reports and EM&A Manuals were effectively implemented.
- 7.2 ET Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measure. The summaries of site audits are attached in **Appendix G**.

8 ENVIRONMENTAL AUDIT

Site Audits

- 8.1 Site audit was carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix G**.
- 8.2 Site audits were conducted on 5, 10, 16, 24 and 31 May 2017 in the reporting month. IEC joint site inspection was conducted on 16 May 2017. No non-compliance was observed during the site audit.

Review of Environmental Monitoring Procedures

8.3 The monitoring works conducted by the monitoring were inspected regularly. The following observations have been recorded for the monitoring works:

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Statues of Environmental Licensing and Permitting

8.4 All permits/licenses obtained for the Project are summarized in **Table 10.1**.

Table 10.1	Summary of Environm	ental Licensing and Permit Status
	V P D P 1	

Donmit No	Valio	l Period	Details	Status
Permit No.	From	То	Details Stat	
Environmental Permit	t (EP)			
EP-450/2013/A	25/08/ 15	N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 1	Valid
EP-501/2015 02/09/ 15 N/A		N/A	Construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid
Billing Account for Con	struction	Waste Dispo	osal	
A/C No.: 7025411N/AN/ABilling Account for construction waste disposal under Waste Disposal (Charge for Disposal of Construction Waste Regulation		Valid		
Effluent Discharge Lice	nse			
WT00027672-2017 WT00027661-2017 WT00027606-2017 WT00027510-2017 WT00027509-2017 WT00027603-2017 WT00027508-2017 WT00027582-2017	- - - - - -	31/3/2022	Discharge License for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain	Valid
w10002/582-201/		30/6/2018		

Permit No.	Valio	l Period	Details S	
Permit No.	From	То	Details	Status
WT00027584-2017		31/7/2019		
WT00027605-2017		31/3/2022		Valid
WT00027607-2017		51/5/2022		
Registration of Chemical Waste Producer				
No.:WPN5213-524- K3261-01 N/A Registration for chemica construction Associated		Registration of chemical waste producer for chemical waste produced during construction of Cycle Tracks and the Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung River – Stage 2	Valid	
Construction Noise Pern	nit (CNP)			
N/A				

Status of Waste Management

- 8.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix K**.
- 8.6 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

- 8.7 According to the Environmental Review Reports, Environmental Permits and the EM&A Manuals of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix I**.
- **8.8** During site inspections in the reporting month, no non-conformance was identified. The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.2**.

Parameters	Date	Observations and Recommendations	Follow-up	
	26 Apr, 5, 10, 16, 24 and 31 May 2017	Wheel washing bays in Portion C and K were found silty and containing some litters, the water should be replaced or maintained more frequently to ensure clean water is used for wheel washing of vehicles.	Follow up actions will be reported in the next month.	
Water Quality	5, 10, 16 and 24 May 2017	Exposed muddy slope surfaces in Portion A and C should be covered by well-maintained tarpaulins to prevent muddy and silty slides.	Tarpaulin coverage was observed provided on 31 May 2017.	
	24 and 31 May 2017	Sandbag bund should be provided to prevent silty runoff flowing to pubic roads at Portion E.	Follow up actions will be reported in the next month.	
31 May 2017		Ponding water should be cleared at Portion C	Follow up actions will be reported in the next month.	
26 Apr, 5, 10, 16, 24 and 31 May 2017		Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.	Follow up actions will be reported in the next month.	
	31 May 2017	Water spraying should be provided more frequently at Portion I for dust suppression.	Follow up actions will be reported in the next month.	
Noise	N/A	There was no observation in the reporting period. N/A		
		Drip trays should be provided to chemical containers in Portion C, E, K and WA3.	Follow up actions will be reported in the next month.	
Management	Follow up actions will be reported in the next month.			

 Table 10.2
 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
	2017		
	5, 10, 16, 24 and 31 May 2017	General refuse skips in Portion A, I and K should be maintained more frequently.	Follow up actions will be reported in the next month.
Ecology and Fisheries	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	26 Apr, 5, 10, 16, 24 and 31 May 2017	Fencing of tree protection zones in Portion E, K and WA3 should be enhanced to protect all existing trees.	Follow up actions will be reported in the next month.
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

8.9 The Event and Action Plan for noise is presented in **Appendix H**.

Construction Noise

8.10 No Action/Limit Level exceedance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

8.11 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix J**.

9 FUTURE KEY ISSUES

- 9.1 Major site activities undertaken for the coming two months include:
- Site Clearance in Portions M and N;
- Construction of wheel washing facilities in Portions B;
- Ground investigation in Portion J;
- Construction of RC structure and public toilet in Portion L;
- Tree felling in Portions M and N;
- Construction of retaining wall in Portions C, D, E and K;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portion G, H and K;
- Earth and drainage works in Portions A, D, E, F, J and K;
- Construction of U-channel in Portion B; and
- Construction of rectangular channel in Portion E.

Key Issues for the Coming Month

- 9.2 Key environmental issues in the coming months include:
 - Wastewater and runoff generation on-site;
 - Regular removal of silt, mud and sand along u-channels and inside sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for excavation works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and other dust-generating activities;
 - Water spraying for dust generating activities and on haul road;
 - Proper storage of construction materials on-site;
 - Storage of chemicals/fuel and chemical waste/waste oil on-site;
 - Accumulation of general refuse and construction waste on-site; and
 - Protection measures for retained trees.
- 9.3 The tentative program of major site activities and the impact prediction and control measures for the coming months, i.e. June 2017 to July 2017, are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
As mentioned in Section 9.1	Air quality impact (dust) Water quality impact (surface run-off)	 (a) Frequent watering of haul road and unpaved/exposed areas; (b) Frequent watering or covering stockpiles with tarpaulin or similar means; and (c) Watering of any earth moving activities. (d) Diversion of the collected effluent to de-silting facilities for treatment in compliance with valid Discharge License prior to discharge to public storm water drains; (e) Provision of adequate de-silting facilities for treating surface run-off and other collected

Noise impact	 effluents prior to discharge; (f) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and (g) Provision of measures to prevent discharge into the stream. (h) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; (i) Controlling the number of plants use on site; (j) Regular maintenance of machines (k) Use of quiet PMEs on-site; and (l) Use of acoustic barriers and noise enclosure if necessary.
Landscape and Visual	(m) Proper setup of precautionary area for retained trees.

Monitoring Schedule for the Next Month

9.4 The tentative environmental monitoring schedules for the next month are shown in **Appendix D**.

10 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

10.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

Construction Noise Monitoring

10.2 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was record.

Site Audit

10.3 5 times of ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint and Prosecution

- 10.4 No environmental complaints and environmental prosecution was received in the reporting month.
- 10.5 No environmental prosecution was received in the reporting month.

Recommendations

10.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality

- Water spraying should be provided frequently to unpaved and exposed area, and haul roads for dust suppression.
- Site area near site entrance/exit should be kept clear of dust and proper wheel washing facility should be provided for wheel washing before vehicle leaving the site.
- Slope surfaces in all Portions should be provide coverage where practicable to avoid silty runoff leaving the Site boundary.

Water Quality

• Wheel washing bays in all Portions within the Site should be maintained as far as practicable by means of removing silty water or using cleaner water in order to enhance the effectiveness of wheel washing in every portion within the Site.

Waste/Chemical Management

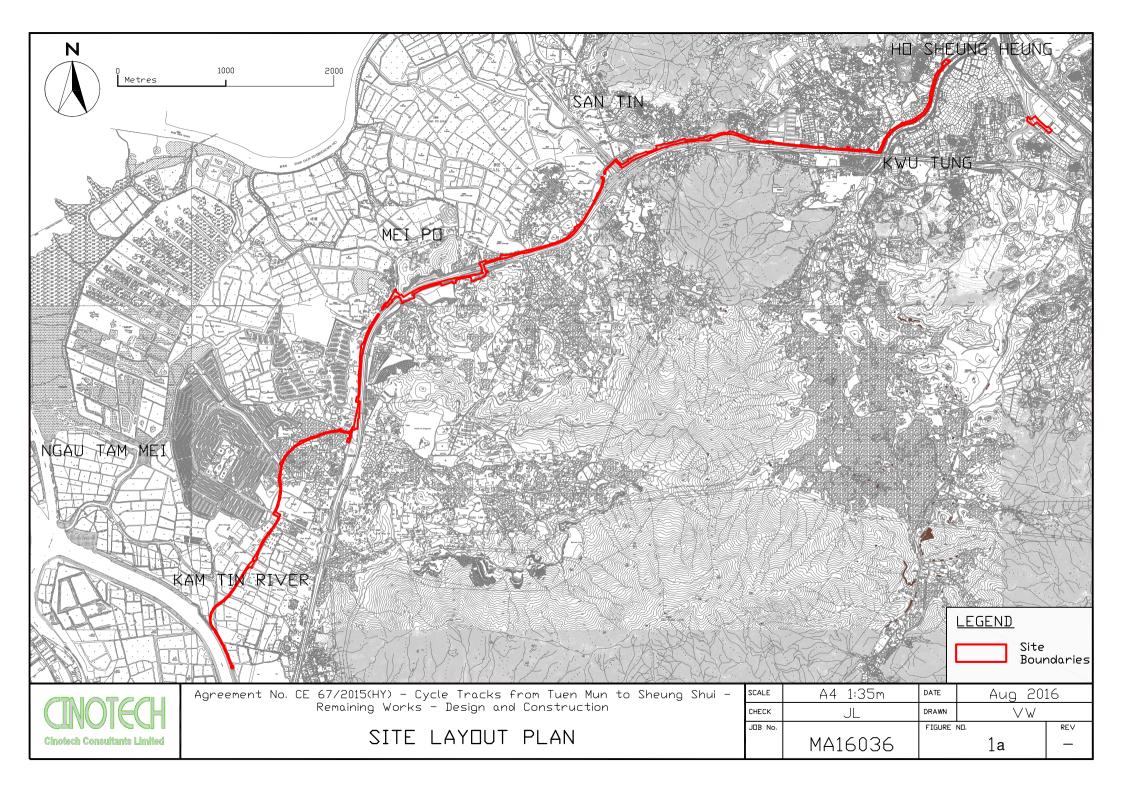
- General refuse should be removed regularly to prevent accumulation on-site. Proper enclosed bin should be provided with maintenance for collection of general refuse from workforce.
- Powered mechanical equipment should be checked and maintained on a regular basis to avoid any oil leakage to the ground.
- Drip tray should be provided to oil/chemical containers and generator to avoid oil

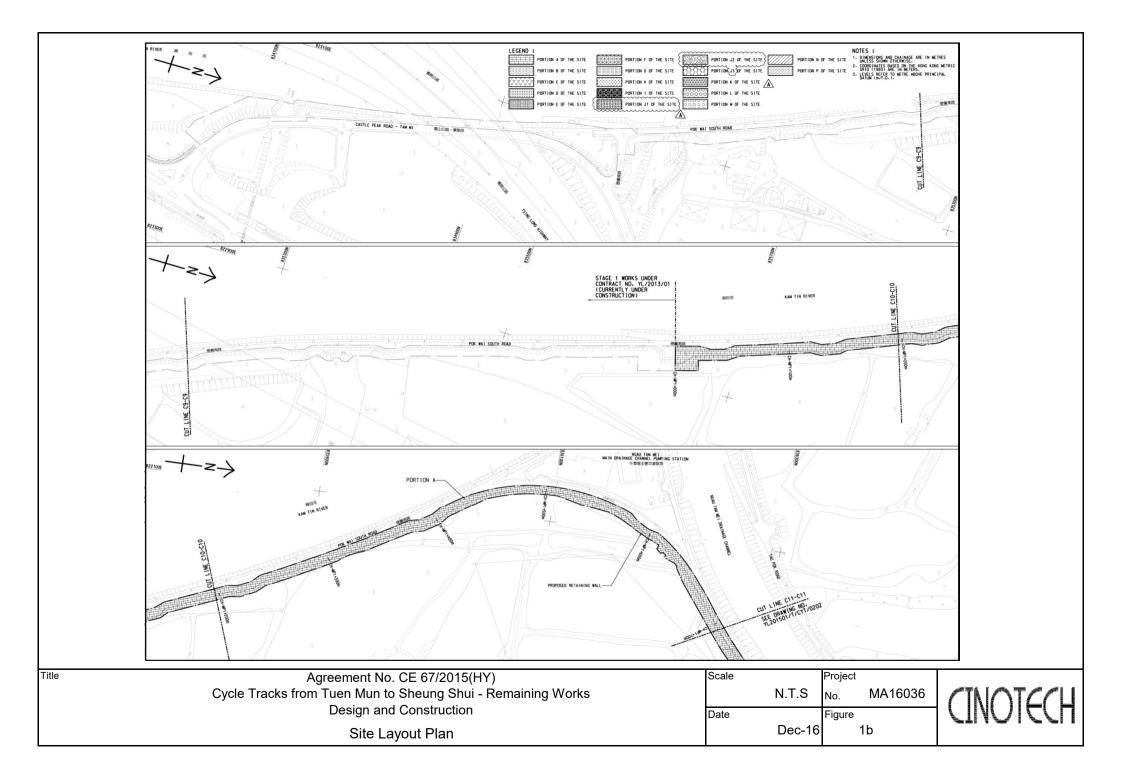
leakage. Any oil stain observed on ground should be properly removed as chemical waste.

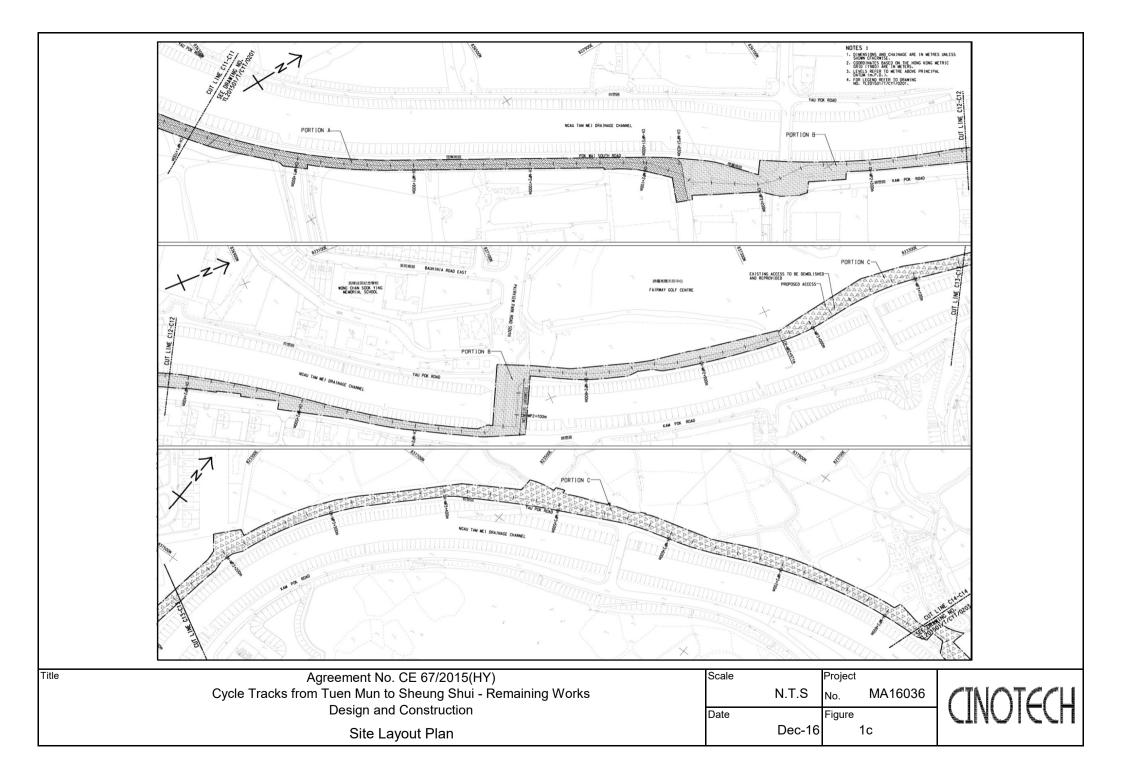
Landscape and Visual

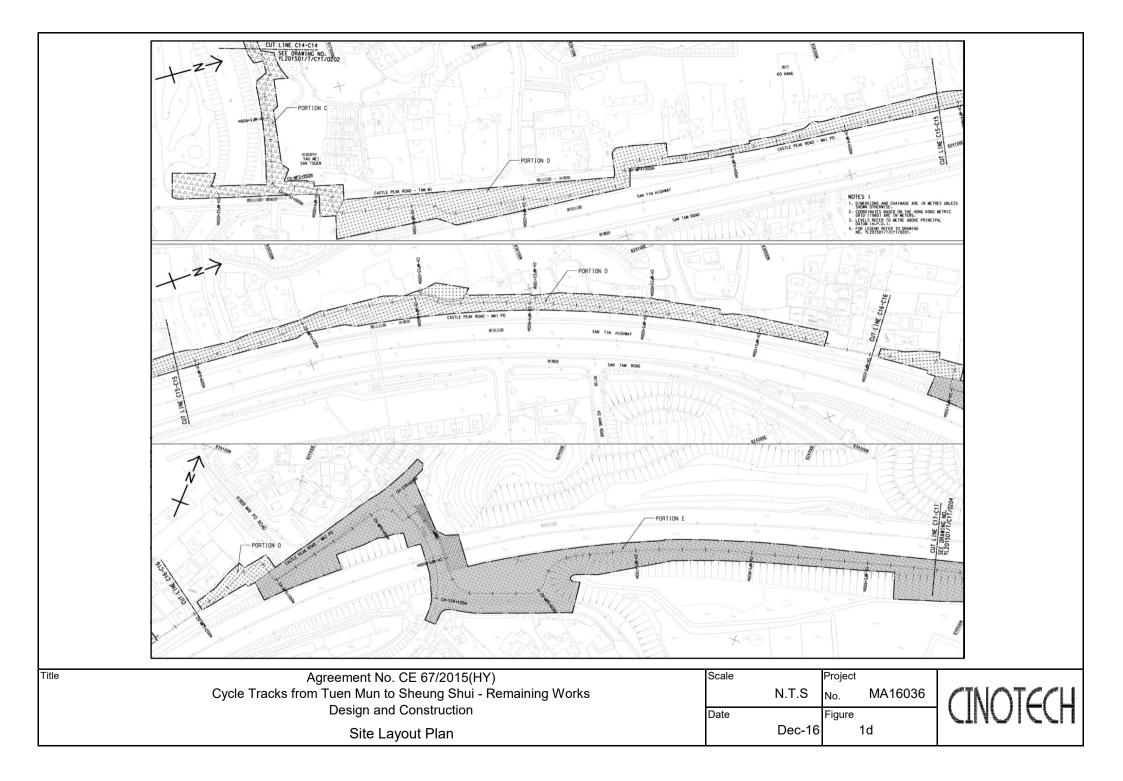
• Adequate tree protection zones should be established to protect retained and existing trees. Conspicuous signs of status of trees should be clearly shown to avoid damage from PMEs or workers.

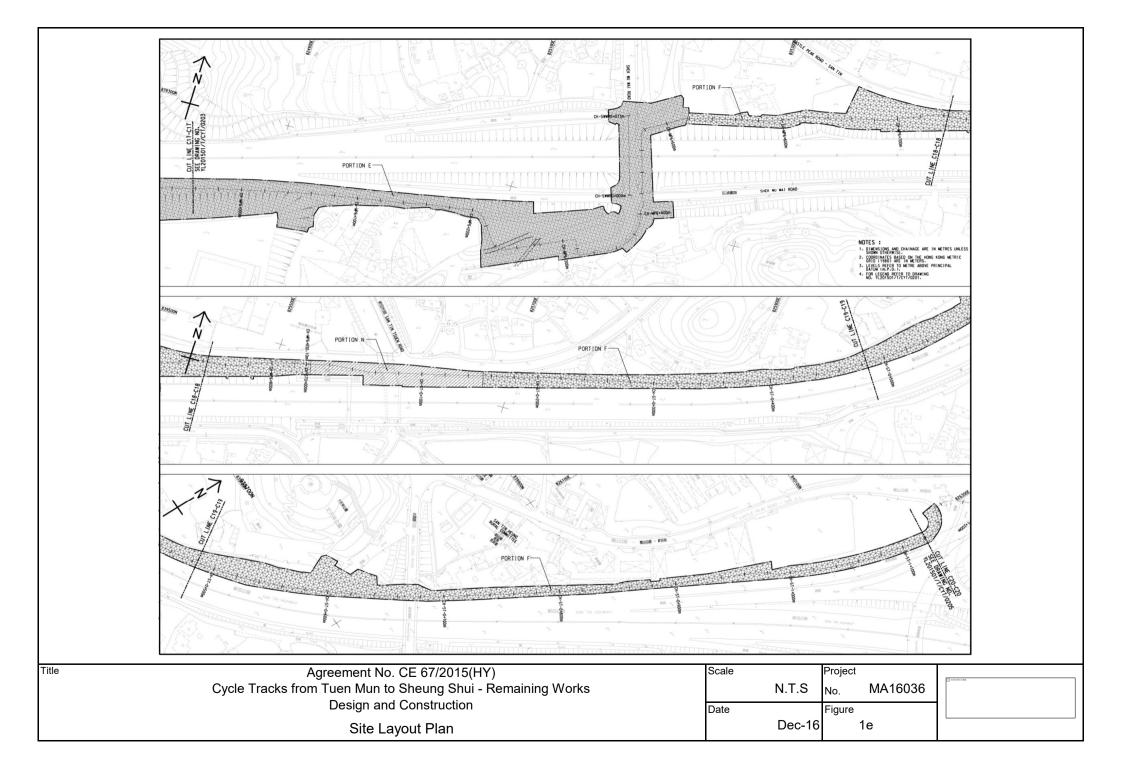
FIGURES

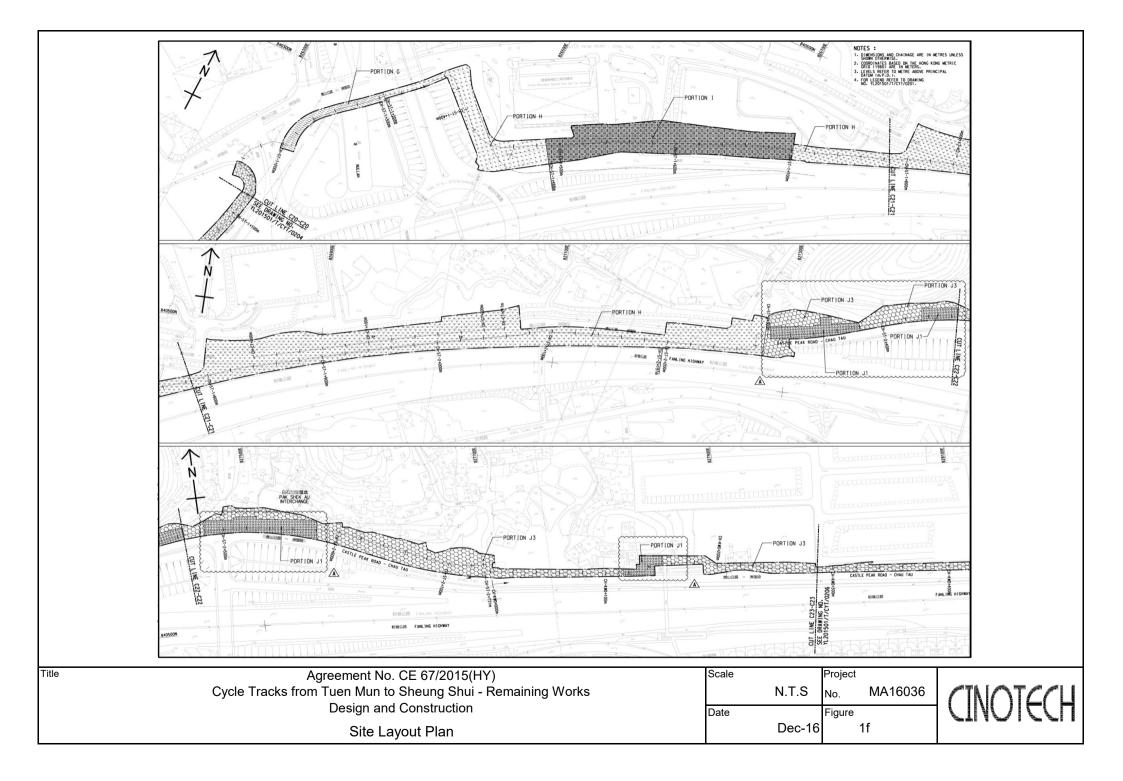


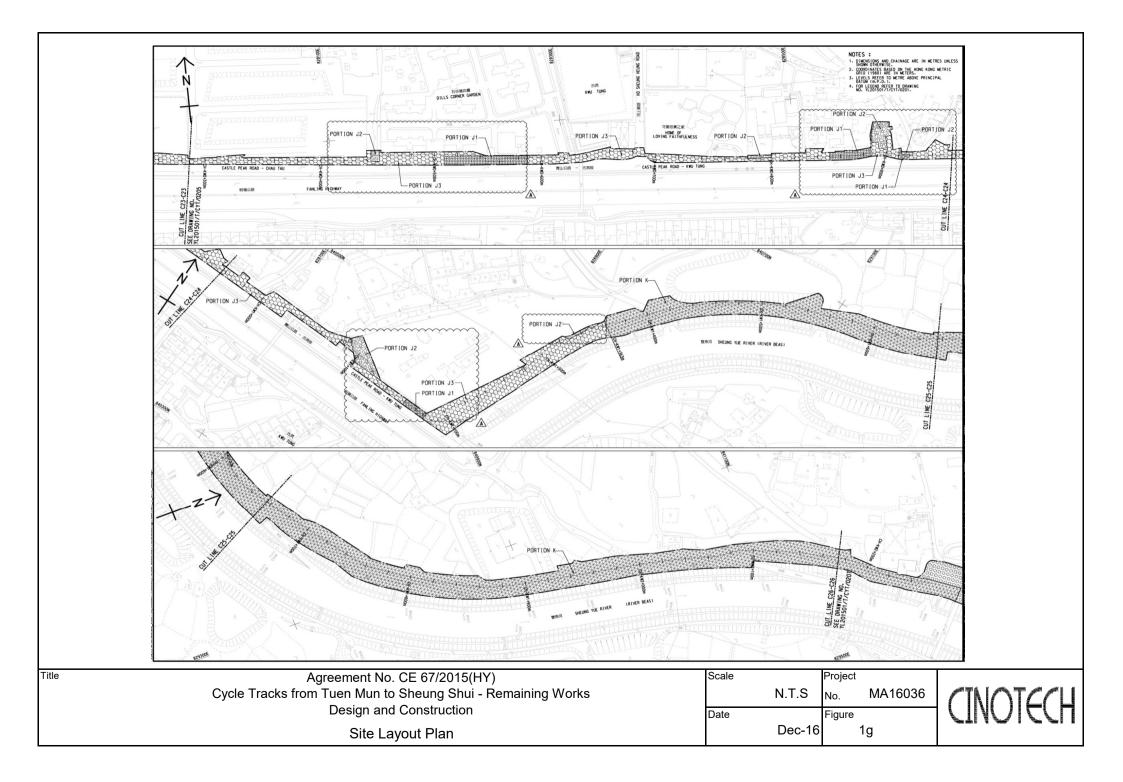


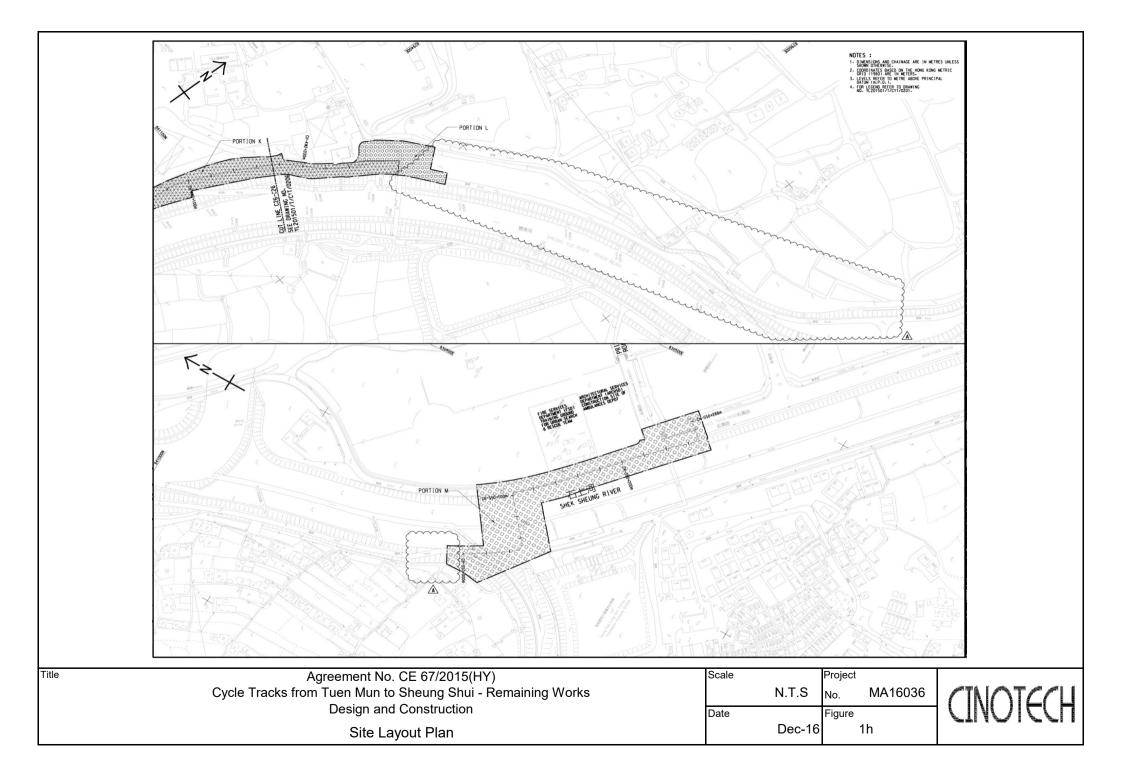


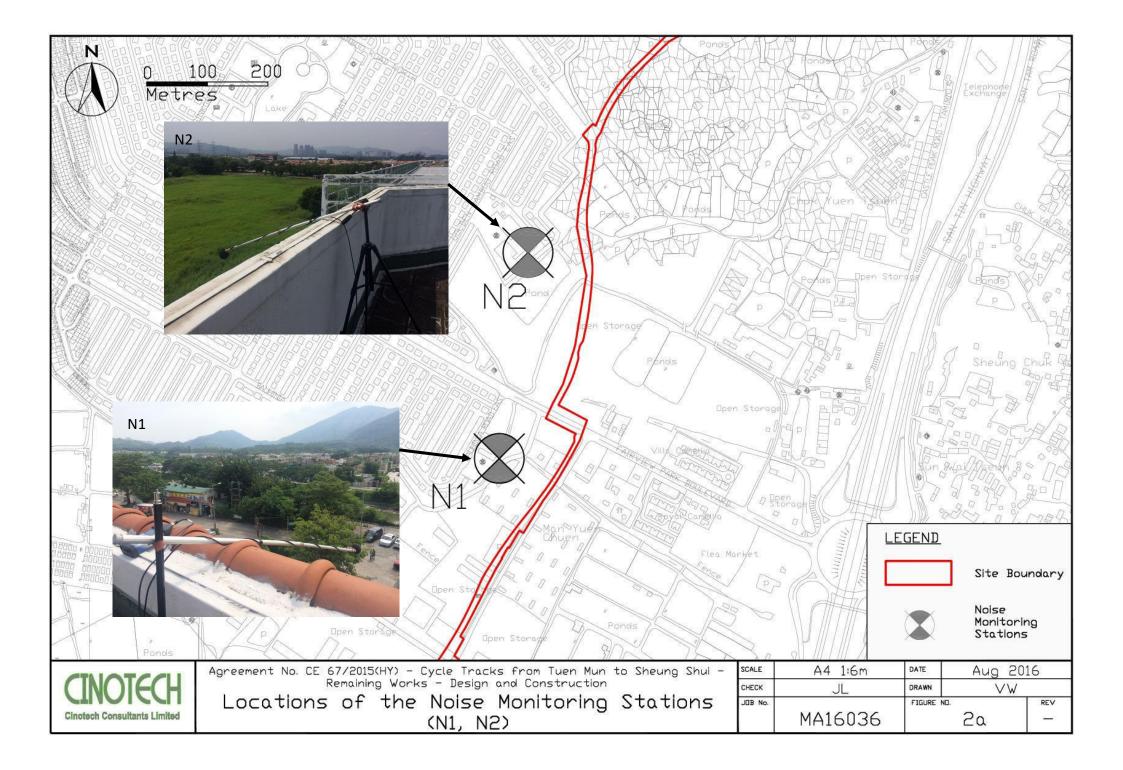


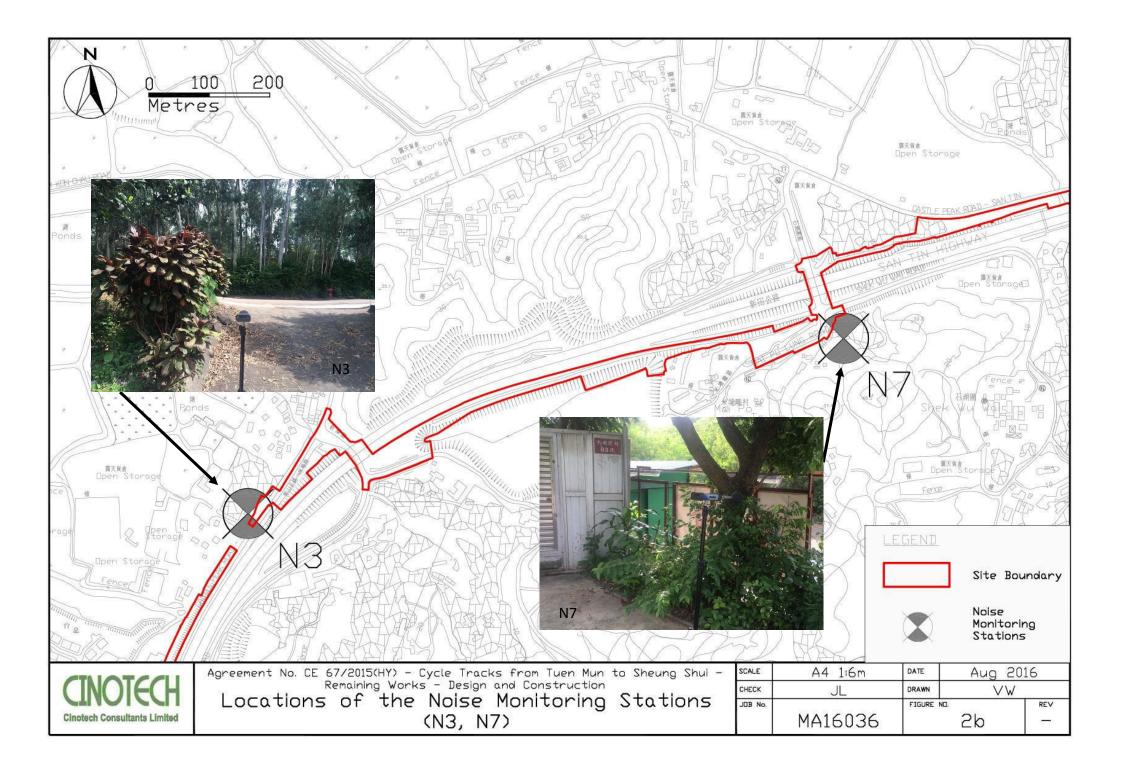


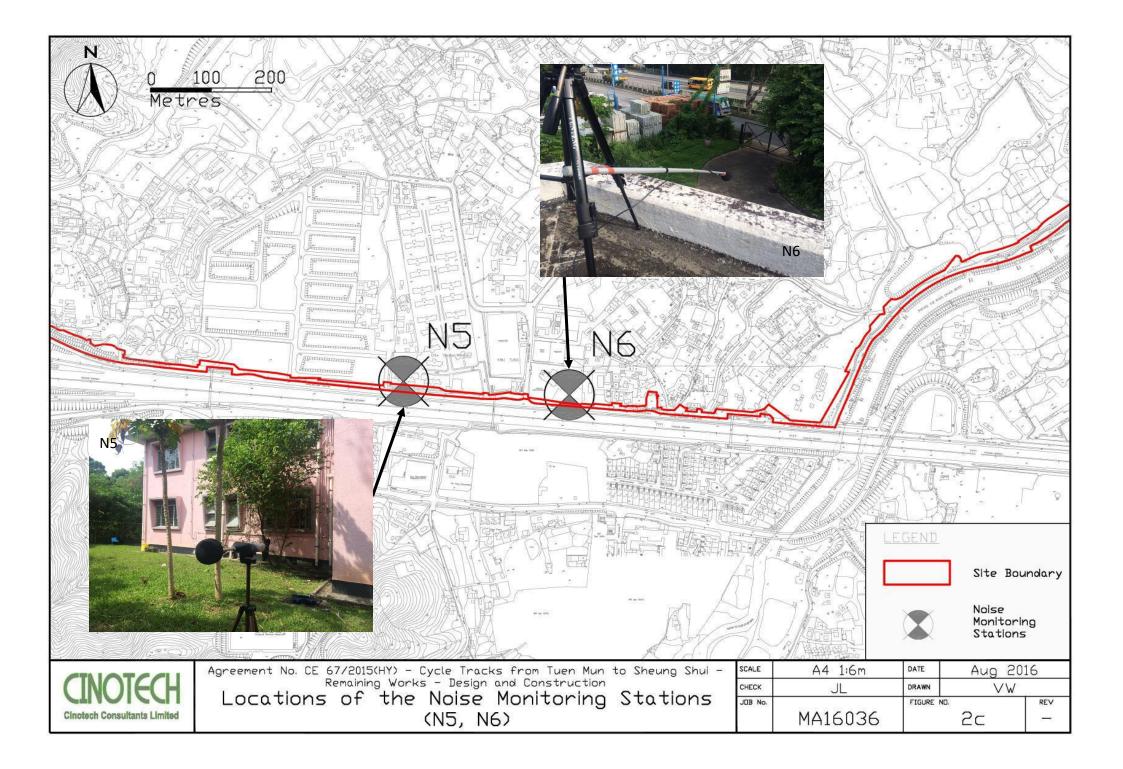










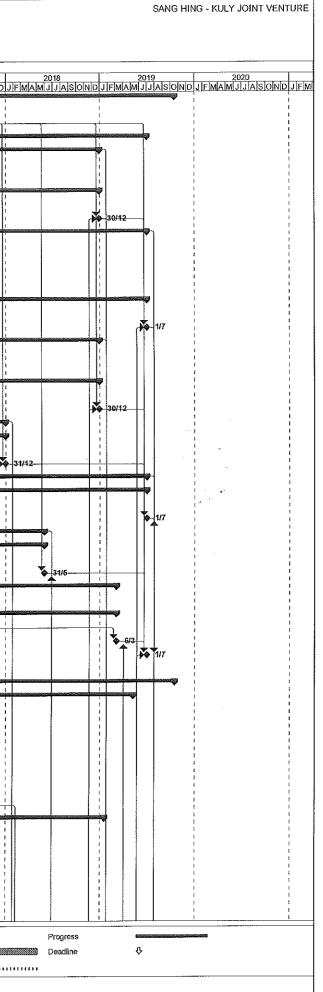


APPENDIX A WORK PROGRAMME

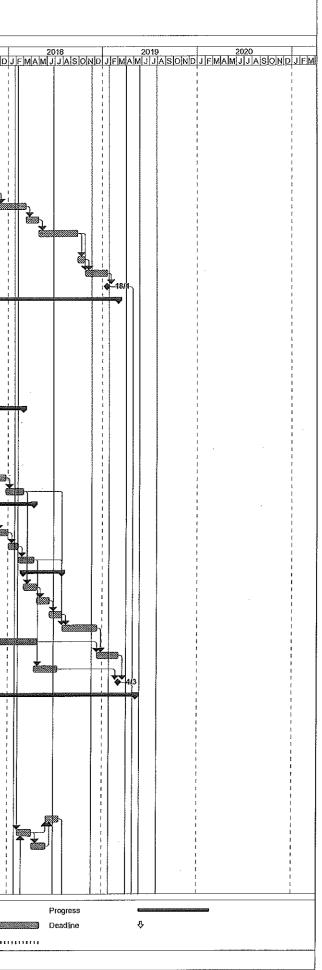
CEDD CONTRACT NO. YL/2015/01 CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUL- REMAINING WORKS

UPDATE ACCEPTED PROGRAMME

D	Task Name	Duration	Time Risk Earl Allowance (days)	ly Start	Early Finish	Float	% Complete	Predecessors	2016 MAMJJASON		2017
1	CONTRACT DURATION (ALL WORKS EXCEPT LANDSCAPING AND ESTABLISHMENT)	1204 days		Thu 30/6/16	Wed 16/10/19	-107 days	32%				MJJJASUN
2	COMMENCEMENT OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%				
3	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		╡ ║╤━━━━		
4	SECTION W1 (PORTION A,B,C & D)	854 days	-	Sun 28/8/16	Sun 30/12/18	0 days	0%			1	
;	PORTION A & C	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%		\$ 28/8		
	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%	2SS+60 days	▶ 28/8	1	
	PORTION B & D	763 days		Sun 27/11/16	Sun 30/12/18	0 days	0%			1	
	ACCESS DATE	0 days		Sun 27/11/16	Sun 27/11/16	763 days	0%	2SS+151 days		27/11	
)		0 days		Sun 30/12/18 Thu 30/6/16	Sun 30/12/18	0 days	0% 0%	2FS+913 days,157			
	SECTION W2 (PORTION E, F, G, H, I & N) PORTION G, I & N	1097 days O days		Thu 30/6/16	Mon 1/7/19 Thu 30/6/16	0 days 1097 days	0%		\$ 30/6		
2	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS	30/6		
	PORTION E & H	0 days		Sun 28/8/16	Sun 28/8/16	1037 days	0%		\$ 28/8		
	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	1037 days	0%	2SS+60 days	28/8		
	PORTION F	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		-		
5	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	255	30/6		
	COMPLETION DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	2FS+1097 days,331			
	SECTION W3 (PORTION K, J1)	914 days		Thu 30/6/16	Sun 30/12/18	0 days	0%				
	PORTION K	0 days		Thu 30/6/16	Thu 30/6/16	914 days	0%		\$ 30/6		
	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	914 days	0%	255	\$\$ 30/6	1	
	PORTION J1	854 days		Sun 28/8/16	Sun 30/12/18	0 days	0%			1	
	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%	2SS+60 days	28/8	1	
	COMPLETION DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	2FS+913 days,366		1	
	SECTION W4	550 days		Thu 30/6/16	Sun 31/12/17	0 days	0%				
; 	PORTION L	550 days		Thu 30/6/16	Sun 31/12/17	0 days	0%				
3	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	550 days	0%	255	●◆ 30/6	1	
	COMPLETION DATE	0 days	ļ	Suni 31/12/17	Sun 31/12/17	0 days	0%	2FS+548 days,381		i	
	SECTION W5	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0% 0%				e a change the change of the states
	PORTION M ACCESS DATE	1097 days O days		Thu 30/6/16 Thu 30/6/16	Mon 1/7/19 Thu 30/6/16	0 days 1097 days	0%	288	30/6	1	
	COMPLETION DATE	0 days 0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	255 2FS+1097 days,425	-		
	SECTION W6	367 days		Mon 29/5/17	Thu 31/5/18	0 days	0%		-		
-	PORTION P	367 days		Mon 29/5/17	Thu 31/5/18	0 days	0%	··· ·	-	1	
	ACCESS DATE	0 days		Mon 29/5/17	Mon 29/5/17	367 days	0%	2SS+334 days			29/5
;	COMPLETION DATE	0 days	10.000	Thu 31/5/18	Thu 31/5/18	0 days	0%	2FS+701 days,436		1	
3	SECTION W7	730 days		Tue 7/3/17	Wed 6/3/19	0 days	0%				
τ	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%			\$ 7/3	3
3	PORTION J2 & J3	730 days		Tue 7/3/17	Wed 6/3/19	0 days	0%				aanaa goodaanaa ah
)	ACCESS DATE	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	37SS		}≎ 7/3	3
0	COMPLETION DATE	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	39FS+730 days,473			
1	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	9,17,23,27,31,35,40,474		3	
2										-	
3	PLANNED WORKS PROGRAMME	1204 days		Thu 30/6/16	Wed 16/10/19	-107 days	32%			i	
1	SECTION W1 (PORTION A,B,C & D)	1044 days		Thu 30/6/16	Thu 9/5/19	-130 days	31%				and the sub-sub-
	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	288			
-	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W1	230 days		Thu 30/6/16	Tue 14/2/17	-19 days	80%	288			
	CONTRACTOR DESIGN FOR RETAINING WALL	379 days		Thu 30/6/16	Thu 13/7/17	0 days	69%	4500			
	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	275 days		Thu 30/6/16	Fri 31/3/17	0 days	95%	45SS			
	REVIEW AND APPROVED BY SUPERVISOR	7 days	1	Sal 1/4/17	Fri 7/4/17	0 days	0%	48		₽	•
	REVIEW AND APPROVED BY PM	7 days		Sat 8/4/17	Fri 14/4/17	0 days	0% 0%	49 50		2	
	REVIEW AND APPROVED BY GEO/HYD COMMENCEMENT OF SITE WORK	90 days	ļ	Sat 15/4/17 Thu 13/7/17	Thu 13/7/17 Thu 13/7/17	0 days 0 days	0%	51	-		₩ • • • • • • • • • • • • •
4	PORTION A - POK WAI ROAD SOUTH (MP 1+000 - MP 2+130)	0 days 873 days		Sun 28/8/16	Fri 18/1/19	-19 days	40%				
_	POSSESION OF SITE	0 days		Sun 28/8/16 Sun 28/8/16	Sun 28/8/16	-19 days O days	100%	45FS+60 days	28/8		
-	INITIAL SURVEY	60 days	3 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	54			
-	TREE SURVEY	70 days	3 days	Fri 28/10/16	Thu 5/1/17	0 days	100%	55			
_	TREE FELLING / TRANSPLANTING AND SITE CLEARANCE (FOR NEW DLO	80 days	5 days	Fri 6/1/17	Sun 26/3/17	0 days	100%	56,55	- 1		,
	MEMO)										(E
-	UTILITIES DIVERSION WORKS (CLP & PCCW)	90 days	0 day	Fri 27/1/17	Wed 26/4/17	-12 days	90%	57SS+21 days			h
	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	28 days	2 days	Tue 1/11/16	Mon 28/11/16	0 days	100%	55	- /	<u>Ы</u>	
		-			I		1		<u>, 11 1 1 7</u>		· · · · · · · · · · · ·
	Task Summary			External Milesto	one 🗇	Inactive Su	mmary 🖓	Manual Summary Rollup	Finish-	only	ב
	Split Project Su	mmary	Ş	Inaclive Task	(Manual Tas	k 🖬	Manual Summary	Critical		
	Split mensenergi Project Su										



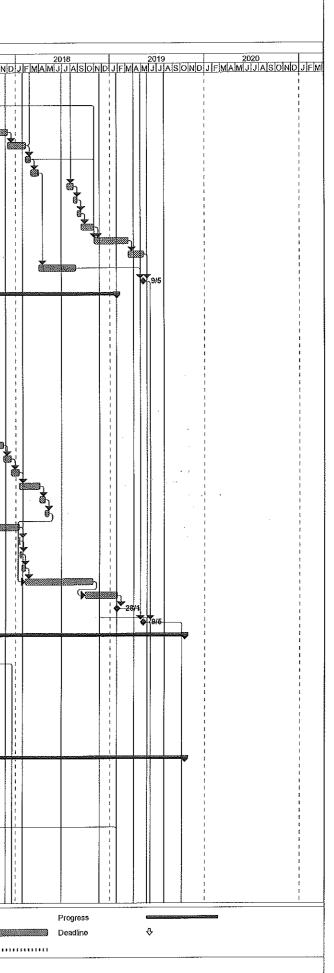
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	MAN	2016 //JJAS	OND	JEM	2017 AMJJA
D	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 1/11/16	Mon 21/11/16	0 days	100%	5955			Դ∎∏	TT	1
	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 29/11/16	Mon 19/12/16	0 days	100%	59,60			ũ,		
	RETAINING WALL - RW 8A (60M)	115 days	5 days	Tue 20/12/16	Thu 13/4/17	1 day	63%	61				連 輸	Ы
	RETAINING WALL - RW 8B (40M)	80 days	5 days	Fri 27/1/17	Sun 16/4/17	-19 days	64%	60,57\$\$+21 days			ļĢ	Ň	세
	NCE EFFECT ON ADDED SUB SOIL DRAIN	2 days	0 day	Mon 17/4/17	Tue 18/4/17	-19 days	0%	63					F
	NCE EFFECT ON ADDED WATER STOP	5 days		Wed 19/4/17	Sun 23/4/17	-19 days	0%	64			1		Ĥ
	NCE EFFECT ON ADDED CHAMFER	10 days		Mon 24/4/17	Wed 3/5/17	-19 days	0%	65					a di
	EARTHWORKS AND DRAINAGE WORKS, UTILITIES LAYING BETWEEN MP1+000 TO MP 1+600 (EXCLUDING RETAINING WALL RW7, 7A & 7B)	150 days	10 days	Thu 4/5/17	Sat 30/9/17	-19 days	0%	62,57,58,66	-		1		
	RETAINING WALL - RW7 (20M) (CSD - FILL SLOPE)	50 days	4 days	Sun 1/10/17	Sun 19/11/17	-19 days	0%	67,52					
	RETAINING WALL - RW 7A (67M) (CSD - FILL SLOPE)	110 days	7 days	Mon 20/11/17	Fri 9/3/18	-19 days	0%	68			1		
	RETAINING WALL - RW 7B (20M) (CSD - FILL SLOPE)	50 days	3 days	Sat 10/3/18	Sat 28/4/18	-19 days	0%	69			1		
	EARTHWORKS AND DRAINAGE WORKS BETWEEN MP1+600 TO MP 2+100	150 days	10 days	Sun 29/4/18	Tue 25/9/18	-19 days	0%	70			1		
	STAIRCASE	30 days	3 days	Wed 26/9/18	Thu 25/10/18	-19 days	0%	71			1		
	ROAD WORKS	85 days	7 days	Fri 26/10/18	Fri 18/1/19	-19 days	0%	71,72					
	COMPLETION OF PORTION A	0 days		Fri 18/1/19	Fri 18/1/19	-19 days	0%	73					
	PORTION B (MP 2+130 - MP 2+950)	948 days		Sat 30/7/16	Mon 4/3/19	-64 days	23%]				
	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days			r i∳	27/1	
	INITIAL SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	76SS				հ 📗	
	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	765\$				H	
	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	45 days	4 days	Sat 7/1/17	Mon 20/2/17	0 days	100%	78,77				*	
	TTM PREPARATION	150 days	days	Sal 30/7/16	Mon 26/12/16	0 days	100%	2SS+30 days			ľ	ŢЩ	
	TTM APPROVAL BY SUPERVISOR/PM/TMLG	82 days	2 days	Tue 27/12/16	Sat 18/3/17	0 days	100%	80					
	UTILITIES DIVERSION WORKS (CLP, PCCW & HCL)			Mon 6/2/17	Thu 6/4/17	-25 days	80%	79SS+30 days					L.
-		60 days	0 day			· · · · · · · · · · · · · · · · · · ·		1.000.00 rate]
	SUBWAY A WITH PUMP ROOM (4 BAYS) CONSTRUCTION	336 days	0.1	Sat 1/4/17	Fri 2/3/18	-64 days	0%	40 0450 149 days 70 0050 45					+
	TTA ENABLING WORKS (STAGE 1)	15 days	2 days	Sat 1/4/17	Sat 15/4/17	-64 days	0%	46,81FS+13 days,79,82FS-45 days					1
	BAY PW8	70 days	7 days	Sun 16/4/17	Sat 24/6/17	-64 days	0%	84					je starter i starte
	BAY PW9	70 days	7 days	Sun 25/6/17	Sat 2/9/17	-64 days	0%	85					🌆
	TTA ENABLING WORKS (STAGE 2)	21 days	3 days,	Sun 3/9/17	Sat 23/9/17	-64 days	0%	86. r.					
	BAY PW10 WITH PUMP HOUSE	90 days	7 days	Sun 24/9/17	Fri 22/12/17	-64 days	0%	87					
_	BAY PW11	70 days	7 days [⊾] '''	Sat 23/12/17	Fri 2/3/18	-64 days	0%	88 *					
	SOUTHERN RAMP (7 BAYS) CONSTRUCTION	200 days		Sun 24/9/17	Wed 11/4/18	45 days	0%						d l
	BAY PW687	50 days	5 days	Sun 24/9/17	Sun 12/11/17	45 days	0%	87					
	BAY PW485	50 days	5 days	Mon 13/11/17	Mon 1/1/18	45 days	0%	91					1
	BAY PW2&3	-	1		1		0%	92			11		
		40 days	4 days	Tue 2/1/18	Sat 10/2/18	45 days					l i		
	BAY PW1 AND ASSOCIATED WORKS	60 days	6 days	Sun 11/2/18	Wed 11/4/18	45 days	0%	93			1		
	NORTHERN RAMP (5 BAYS) CONSTRUCTION	149 days	-	Sat 3/3/18	Sun 29/7/18	-64 days	0%				1		
	BAY PW12 & 13	50 days	5 days	Sat 3/3/18	Sat 21/4/18	-64 days	0%	89					
	BAY PW14 & 15	50 days	5 days	Sun 22/4/18	Sun 10/6/18	-64 days	0%	96			· []		
	BAY PW16 AND ASSOCIATED WORKS	49 days	5 days	Mon 11/6/18	Sun 29/7/18	-64 days	0%	97					
	FNISHING WORKS AND E&M WORKS	134 days	10 days	Mon 30/7/18	Mon 10/12/18	-64 days	0%	98,94,89					
	EARTHWORKS AND DRAINAGE WORKS	384 days	30 days	Fri 7/4/17	Wed 25/4/18	165 days	0%	79,81,82					<u>*</u>
-	ROAD WORKS	84 days	7 days	Tue 11/12/18	Mon 4/3/19	-64 days	0%	99,100			1		
	RESTING STATION R6	90 days	7 days	Thu 12/4/18	Tue 10/7/18	173 days	0%	94					
-	COMPLETION OF PORTION B	0 days		Mon 4/3/19	Mon 4/3/19	-64 days	0%	101,102			i		
	PORTION C (MP 2+950 - MP 4+010)	984 days		Sun 28/8/16	Thu 9/5/19	-130 days	25%	;·••			; 		an a
: :	· · · ·		·[]			· ·		45FS+60 days			28/8		
-	POSSESION OF SITE	0 days	4.1	Sun 28/8/16	Sun 28/8/16	0 days	100%	1			40/0		
	INITIAL SURVEY	54 days	4 days	Mon 29/8/16	Fri 21/10/16	0 days	100%	10588		1 988			
_	TREE SURVEY	75 days	7 days	Sat 22/10/16	Wed 4/1/17	0 days	100%	106				.↓	
	TREE FEILING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 5/1/17	Sun 5/3/17	35 days	90%	107,106		1		#	
	UTILITIES DIVERSION WORKS (CLP & PCCW)	60 days	0 day	Thu 5/1/17	Sun 5/3/17	42 days	80%	107			[
	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS)	60 days	5 days	Sat 22/10/16	Tue 20/12/16	0 days	100%	106					
	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	3 days	Wed 21/12/16	Tue 10/1/17	0 days	100%	110		1		4	
	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Wed 11/1/17	Tue 24/1/17	0 days	100%	111		1	I lī	x	
┥	RETAINING WALL - RW 11A (50M) (CSD)	50 days	5 days	Wed 30/5/18	Wed 18/7/18	-130 days	0%	115,114					
4	RETAINING WALL - RW 11B : BAY1 - BAY 6 (60M)	55 days	5 days	Fri 9/2/18	Wed 4/4/18	-130 days	0%	122,52FS+80 days	_				
_				Thu 5/4/18	Tue 29/5/18	-130 days	0%	114		4			
	RETAINING WALL - RW 11B : BAY 7 - BAY 12 (60M) RETAINING WALL - RW 11C : BAY 8 - BAY 14 (70M)	55 days 70 days	5 days 7 days	Wed 25/1/17	Tue 4/4/17	-130 days -130 days	50%	109SS+7 days,108FS-40 days,110,112,111			;	料	1
_	RETAINING WALL - RW 11C : BAY 1 - BAY 7, STAIRCASE S1 (70M)	60 days	5 days	Wed 5/4/17	Sat 3/6/17	-80 days	20%	116,109					
	Task Summary			External Milesto	one 🗇	Inactive Sun	imany 🗸 🖓	Manual Summary Rollup		- Fir	nish-only	⊥⊥⊥11 /	ייי
		າຫອາບ		 Inactive Task 		Manual Tasl		Manual Summary			itical		 600
	Split Project Sur	н на каз у	*		ne 🗘	Duration-ont							10000
	Milestone 🔶 External Ta			Inactive Milestor				Start-only C			itical Spli		



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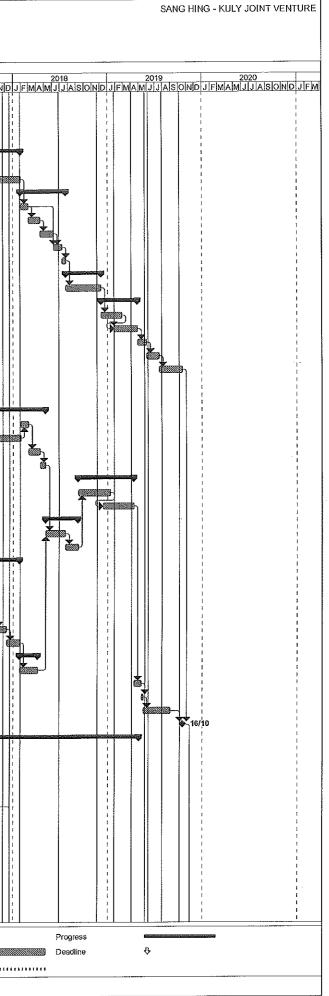
SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	2016 MAMJJASONDJ	201 EMAM I	17 J A
18	RETAINING WALL - RW 11C : BAY 15 - BAY 21, STAIRCASE S2 (70M)	70 days	7 days	Sun 4/6/17	Sat 12/8/17	-80 days	0%	117			- 60
Ð	RETAINING WALL - RW 12 : BAY 1 - BAY 8, STAIRCASE S3 (80M)	90 days	7 days	Wed 5/4/17	Mon 3/7/17	-130 days	0%	116			1
1	RETAINING WALL - RW 12 : BAY 9 - BAY 16, RAMP AND STAIR - CSR1 (80M)	90 days	7 days	Tue 4/7/17	Sun 1/10/17	-130 days	0%	119			<u> </u>
	RETAINING WALL - RW 13 (40M)	60 days	5 days	Mon 2/10/17	Thu 30/11/17	-130 days	0%	120,118			
	RETAINING WALL - RW 14, STAIRCASE S4 (55M)	70 days	7 days	Fri 1/12/17	Thu 8/2/18	-130 days	0%	121	t		
	RETAINING WALL - RW 15A (7.5M)	20 days	2 days	Fri 9/2/18	Wed 28/2/18	115 days	0%	122			
	RAMP NEAR YAU POK ROAD	30 days	2 days	Thu 1/3/18	Fri 30/3/18	131 days	0%	123			
	NCE EFFECT ON ADDED WATER STOP	25 days		Thu 19/7/18	Sun 12/8/18	-130 days	0%	113			
~	NCE EFFECT ON REVSIED BASE SLAB DETAILS ON RW11C AND RW12	15 days	0 day	Mon 13/8/18	Mon 27/8/18	-130 days	0%	125			
	NCE EFFECT ON ADDED SUB SOIL DRAIN	15 days	0 day	Tue 28/8/18	Tue 11/9/18	-130 days	0%	126			
	NCE EFFECT ON ADDED CHAMFER	50 days	0 day	Wed 12/9/18	Wed 31/10/18	-130 days	0%	127			
	EARTHWORKS AND DRAINAGE WORKS	130 days	10 days	Thu 1/11/18	Sun 10/3/19	-130 days	0%	120,123,128			
,	ROAD WORKS	60 days	5 days	Mon 11/3/19	Thu 9/5/19	-130 days	0%	129			
	RESTING STATION R7	144 days	10 days	Sal 31/3/18	Tue 21/8/18	131 days	0%	124			
;	COMPLETION OF PORTION C	0 days		Thu 9/5/19	Thu 9/5/19	-130 days	0%	130,131			
				Sun 27/11/16	Mon 28/1/19	-29 days	20%				2057/3
;	PORTION D (MP 4+010 - MP 5+280)	792 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days		/11	
	POSSESION OF SITE	0 days	D stava								
5		28 days	3 days	Mon 28/11/16	Sun 25/12/16	0 days	100%	134SS			
;	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	134SS			
7	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Sat 7/1/17	Tue 7/3/17	22 days	60%	136,135			
8	UTILITIES DIVERSION WORKS (CLP & HCL)	120 days	0 day	Mon 28/11/16	Mon 27/3/17	2 days	60%	134SS		*	
9	GROUND INVESTIGATION WORKS (3 NOS. BOREHOLE & TRIAL PITS)	21 days	2 days	Wed 15/2/17	Tuə 7/3/17	0 days	100%	137SS+14 days,46			
)	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Wed 15/2/17	Tue 7/3/17	0 days	100%	139SS		/®∬	i i
1	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Wed 8/3/17	Tue 28/3/17	-29 days	80%	140	1		L
2	RETAINING WALL - RW 15B (40M)	70 days	7 days	Fri 7/7/17	Thu 14/9/17	-29 days	0%	143,141,140			ģ
3	RETAINING WALL - RW 15C (45M) & STAIRCASE S6	70 days	7 days	Fri 28/4/17	Thu 6/7/17	-29 days	0%	137,138,139,141FS+30 days			Ţ
4	STREAM DECKING D1	30 days	3 days	Sun 15/10/17	Mon 13/11/17	-25 days	0%	150SS+30 days			
5	STREAM DECKING D2	30 days	3 days	Tue 14/11/17	Wed 13/12/17	-25 days	0%	144		i	
6	STREAM DECKING D3	30 days	3 days	Thu 14/12/17	Fri-12/1/18	-25 days	0%	145		.	
				Sat 13/1/18	Mon 2/4/18	-25 days	0%	146		.	
17	RAMP PR1 CONSTRUCTION	80 days	7 days				0%	147		.	
8	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Tue 3/4/18	Mon 23/4/18	-25 days		148			
9	DEMOLITION OF EXISTING STRUCTURE	14 days	2 days	Tue 24/4/18	Mon 7/5/18	-25 days	0%				
50	RW16A (80M) (CSD)	120 days	10 days	Fri 15/9/17	Fri 12/1/18	-29 days	0%	142,80	1. 		
51	NCE EFFECT ON ADDED SUB SOIL DRAIN	3 days	0 day	Sat 13/1/18	Mon 15/1/18	-29 days	0%	150			
52	NCE EFFECT ON ADDED WATER STOP	7 days	-	Tue 16/1/18	Mon 22/1/18	-29 days	0%	151			
53	NCE EFFECT ON ADDED CHAMFER	14 days		Tue 23/1/18	Mon 5/2/18	-29 days	0%	152			
54	EARTHWORKS AND DRAINAGE WORKS	262 days	30 days	Tue 6/2/18	Thu 25/10/18	-29 days	0%	149FS-95 days,153			
55	ROAD WORKS	125 days	14 days	Wed 26/9/18	Mon 28/1/19	-29 days	0%	154FS-30 days			
6	COMPLETION OF PORTION D	0 days		Mon 28/1/19	Mon 28/1/19	-29 days	0%	155		,	
57	COMPLETION OF SECTION W1	0 days	1	Thu 9/5/19	Thu 9/5/19	-130 days	0%	132,156,74,103		.	
58	SECTION W2 (PORTION E, F, G, H, I & N)	1204 days	days	Thu 30/6/16	Wed 16/10/19	-107 days	35%				No.
9	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	288			
50	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W2	240 days	14 days	Thu 30/6/16	Fri 24/2/17	-68 days	90%	15988		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
				Thu 30/6/16	Mon 31/7/17	0 days	59%				
51	CONTRACTOR DESIGN FOR RETAINING WALL	397 days					80%	159SS			
2	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	293 days		Thu 30/6/16	Tue 18/4/17	0 days	-	162			
3	REVIEW AND APPROVED BY SUPERVISOR	7 days		Wed 19/4/17	Tue 25/4/17	0 days	0%			₽	
4	REVIEW AND APPROVED BY PM	7 days		Wed 26/4/17	Tue 2/5/17	0 days	0%	163		1	
5	REVIEW AND APPROVED BY GEO/HYD	90 days		Wed 3/5/17	Mon 31/7/17	0 days	0%	164			8
6	COMMENCEMENT OF SITE WORK	0 days		Mon 31/7/17	Mon 31/7/17	0 days	0%	165			Ş
7	PORTION E (MP 5+280 - MP 6+530)	1204 days	days	Thu 30/6/16	Wed 16/10/19	-107 days	28%				
8	POSSESION OF SITE	0 days	-	Sun 28/8/16	Sun 28/8/16	0 days	100%	159FS+60 days	28/8		
9	INITIAL SURVEY	65 days	5 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	168SS			
0	TREE SURVEY	65 days	5 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	169			
1	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	50 days	5 days	Fri 6/1/17	Fri 24/2/17	0 days	100%	170,169		∺ -	
2	UTILITIES DIVERSION WORKS (GAS MAIN, CLP)	200 days	0 day	Mon 29/8/16	Thu 16/3/17	0 days	100%	168SS			
3	GROUND INVESTIGATION WORKS (9 NOS. BOREHOLE & TRIAL PITS)	45 days	4 days	Fri 20/1/17	Sun 5/3/17	-107 days	89%	171SS+14 days			
					Thu 9/2/17	16,8 days	80%	173SS	[]	<u> </u>	
4	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Fri 20/1/17					17	¥	
5	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Fri 10/2/17	Thu 2/3/17	-74 days	80%	174			
6	TTM PREPARATION	76 days	7 days	Thu 30/6/16	Tue 13/9/16	0 days	100%	285			
7	TTM APPROVAL BY RSS/TMLG	90 days	7 days	Wed 14/9/16	Mon 12/12/16	0 days	100%	176			
-	Task Summary			External Milesto	ne 🗇	Inactive Sur	nmary 🗸	Manual Summary Rollup	Finish-only		
		000204		 External milesto Inactive Task 	····· •	Manual Tas		Manual Summary	Critical		6
	Split Project St		~					_	Critical Split	,	
	Milestone 🔷 External T	ooka		Inactive Milesto	ne 🗘	Duration-on	N	Start-only C	United SDI?		- 6 8



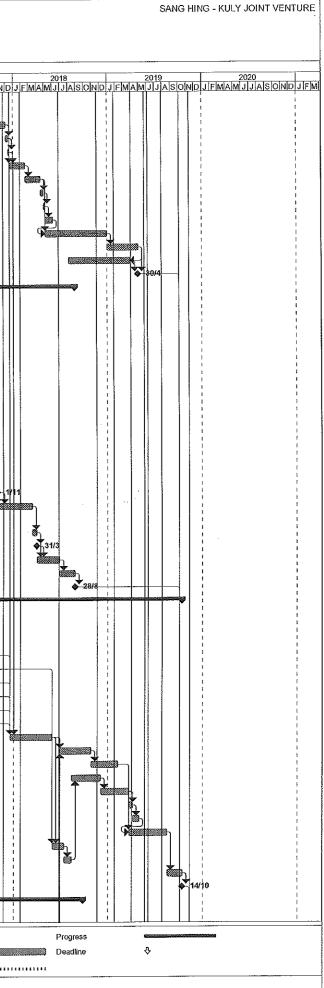
SANG HING - KULY JOINT VENTURE

ľ	ask Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	2016	elolulo -	2017 FMAMJJJ
-	PREPARATION OF TDMP FOR BOX CULVERTS	60 days	5 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	168			
	APPROVAL OF TOMP BY SUPERVISOR/DSD	30 days	3 days	Fri 28/10/16	Sat 26/11/16	0 days	100%	178		Š	
	MP 5+465 - MP 5+515	100 days		Wed 5/4/17	Thu 13/7/17	-107 days	0%				
	RETAINING WALL - RW D02 & D04 (80M)	100 days	7 days	Wed 5/4/17	Thu 13/7/17	-107 days	0%	171,177,179,173FS+30 days,175,160			dia tan
-	MP 5+515 - MP 5+595	200 days		Fri 14/7/17	Mon 29/1/18	-107 days	0%			I I	
-			7 dave	Fri 14/7/17	Sun 1/10/17	-107 days	0%	181			
\downarrow	RETAINING WALL - RW D05 & D06 (50M)	80 days	7 days				0%	183,172,166FS-45 days			``
	RETAINING WALL - RW D07 (70M) (CSD)	120 days	10 days	Mon 2/10/17	Mon 29/1/18	-107 days		100, 112, 100, 0-40 0030	[] []		
1	MP 5+280 - MP 6+020	175 days		Tue 30/1/18	Mon 23/7/18	-107 days	0%				
	RETAINING WALL - RW D03 (11M)	30 days	3 days	Tue 30/1/18	Wed 28/2/18	-107 days	0%	184			
1	BOX CULVERT D4	45 days	4 days	Thu 1/3/18	Sat 14/4/18	-107 days	0%	186			
T	EARTHWORKS AND DRAINAGE WORKS	53 days	5 days	Sun 15/4/18	Wed 6/6/18	-107 days	0%	187			
	ROAD WORKS FOR REALIGNMENT	32 days	3 days	Thu 7/6/18	Sun 8/7/18	-107 days	0%	188,186		i	
ŀ	REALIGNMENT SAN TAM ROAD	15 days	2 days	Mon 9/7/18	Mon 23/7/18	-107 days	0%	189			
ŀ	MP 5+900 - MP 6+020	136 days		Tue 24/7/18	Thu 6/12/18	-107 days	0%				
			10 days	Tue 24/7/18	Thu 6/12/18	-107 days	0%	190			
_	RETAINING WALL - RW D15 (113M) (CSD)	136 days	10 days								
	MP 5+ 595 - MP 5+900	140 days		Fri 7/12/18	Thu 25/4/19	-107 days	0%	100			
	RETAINING WALL - RW D10 (50M) (CSD)	80 days	7 days	Fri 7/12/18	Sun 24/2/19	-107 days	0%	192			
Ĩ	RETAINING WALL - RW D08 (66M) (CSD)	90 days	8 days	Sat 26/1/19	Thu 25/4/19	-107 days	0%	194FS-30 days,172			
Ē	NCE EFFECT ON ADDED WATER STOP	35 days		Fri 26/4/19	Thu 30/5/19	-107 days	0%	195			
-	NCE EFFECT ON ADDED CHAMFER	49 days	1	Fri 31/5/19	Thu 18/7/19	-107 days	0%	196			
-	REMAINING EARTHWORKS AND ROAD WORKS	90 days	8 days	Fri 19/7/19	Wed 16/10/19	-107 days	0%	197		r I	
┝	MP 6+420 - MP 6+530	180 days		Wed 5/4/17	Sun 1/10/17	0 days	10%				
-	RETAINING WALL - RW D25 & D26 (100M)	180 days	14 days	Wed 5/4/17	Sun 1/10/17	-57 days	10%	181SS		5	Sector Sector
		-	14 days								
L	MP 6+020 - MP 6+530	216 days		Mon 2/10/17	Sat 5/5/18	-57 days	0%	202			
L	BOX CULVERT D7	30 days	3 days	Tue 30/1/18	Wed 28/2/18	-57 days	0%	203			
Ľ	EARTHWORKS AND DRAINAGE WORKS	120 days	10 days	Mon 2/10/17	Mon 29/1/18	-57 days	0%	200			
[ROAD WORKS FOR REALIGNMENT	45 days	4 days	Thu 1/3/18	Sat 14/4/18	-57 days	0%	202			
Ē	REALIGNMENT SHEK WU WAI ROAD	21 days	2 days	Sun 15/4/18	Sat 5/5/18	-57 days	0%	204			
	MP 6+020 - MP 6+160	215 days		Sun 9/9/18	Thu 11/4/19	-57 days	0%				
,	RETAINING WALL - RW D18 (98M)	125 days	10 days	Sun 9/9/18	Fri 11/1/19	-57 days	0%	211			
_	RETAINING WALL - RW D17 (65M)	120 days	10 days	Thu 13/12/18	Thu 11/4/19	-57 days	0%	207FS-30 days		1-	
_				Sun 6/5/18	Sat 8/9/18	-57 days	0%	· · · · · · · · · · · · · · · · · · ·	······	1	
_	MP 6+160 - MP 6+230	126 days	7 days				1	205 220ES+7 dave			
Į	RETAINING WALL - RW D19A, B (53M)	76 days	7 days	Sun 6/5/18	Fri 20/7/18	-57 days	0%	205,220FS+7 days			
-	RETAINING WALL - RW D20 (U) (22M)	50 days	5 days	Sat 21/7/18	Sat 8/9/18	-57 days	0%	210		1	
Ĺ	MP 6+230 - MP 6+330	385 days	1	Fri 6/1/17	Thu 25/1/18	-34 days	29%				
ĺ	RECTANGULAR CHANNEL	150 days	10 days	Fri 6/1/17	Sun 4/6/17	-34 days	75%	170		@	
	BOX CULVERT D5	45 days	4 days	Mon 5/6/17	Wed 19/7/17	-34 days	0%	213			ČB
ſ	RETAINING WALL - RW D21(U) (26M)	50 days	4 days	Sun 3/9/17	Sun 22/10/17	-34 days	0%	216			
	BOX CULVERT D6	45 days	4 days	Thu 20/7/17	Sat 2/9/17	-34 days	0%	214			
	RETAINING WALL - RW D22 (U) (26M)	45 days	4 days	Mon 23/10/17	Wed 6/12/17	-34 days	0%	215			
ļ					Thu 25/1/18	-34 days	0%	217			
	RETAINING WALL - RW D23 (U) (21M)		4 days	Thu 7/12/17							
_	MP 6+372 - MP 6+410	70 days	<u> </u>	Fri 26/1/18	Thu 5/4/18	-34 days	0%	010			
	RETAINING WALL - RW D24 (44M)	70 days	7 days	Fri 26/1/18	Thu 5/4/18	-34 days	0%	218	V*##***		
Ì	NCE EFFECT ON ADDED WATER STOP	27 days	-	Fri 12/4/19	Wed 8/5/19	-57 days	0%	208			
	NCE EFFECT ON ADDED CHAMFER	7 days		Thu 9/5/19	Wed 15/5/19	-57 days	0%	221			
	REMAINING EARTHWORKS AND ROAD WORKS	104 days	10 days	Thu 16/5/19	Tue 27/8/19	-57 days	0%	222			
	COMPLETION OF PORTION E	0 days	1	Wed 16/10/19	Wed 16/10/19	-107 days	0%	223,198			
	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1035 days	+·ŀ·	Thu 30/6/16	Tue 30/4/19	62 days	28%				
• •	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	159FS+151 days		2	/11
			A days	Mon 28/11/16	Fri 6/1/17	0 days	100%	226SS			
		40 days	4 days		I		100%	22655			
	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri6/1/17	0 days					
	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Sat 7/1/17	Tue 7/3/17	27 days	50%	228,227			
	UTILITIES DIVERSION WORKS (CLP, CATV, NTT, TOWN GAS, HKBB	& TGT) 120 days	0 day	Mon 28/11/16	Mon 27/3/17	14 days	50%	226SS	4444		
										1	
	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SIT	E 250 days		Thu 30/6/16	Mon 6/3/17	0 days	100%	2SS		1	
	ARRANGEMENT OF SITE INVESTIGATION WORKS	21 days	2 days	Tue 7/3/17	Mon 27/3/17	0 days	100%	231			
	SITE INVESTIGATION WORKS AND TESTING	49 days	3 days	Tue 28/3/17	Mon 15/5/17	-105 days	14%	232,229		1	i de la companya de l
	INSTRUCTION FOR REMEDIAL WORK FOR CONTAMINATED SOIL	14 days	2 days	Tue 16/5/17	Mon 29/5/17	-105 days	0%	233		1	€
	ARRANGEMENT OF REMEDIAL WORKS	30 days	3 days	Tue 30/5/17	Wed 28/6/17	-105 days	0%	234		I I	Š⊾
	IMPLEMENTATION OF REMEMDIAL WORKS	68 days	5 days	Thu 29/6/17	Mon 4/9/17	-105 days	0%	235		E E	
	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)		2 days	Tue 28/3/17	Mon 10/4/17	14 days	0%	230			
_		, 1-1 uajo			[1			E	
	Task Castana S	ummary		External Milest	one 🗇	Inactive Su	mmary 🗸	Manual Summary Rollup 🛲		Finish-only	
	Split P	roject Summarv		Inactive Task	[Manual Tas	sk 📓	Manual Summary 🛛 🖗		Critical	(
					é en	Duration-or		Start-only E		Critical Split	
	Milestone 🔶 E	xternal Tasks									



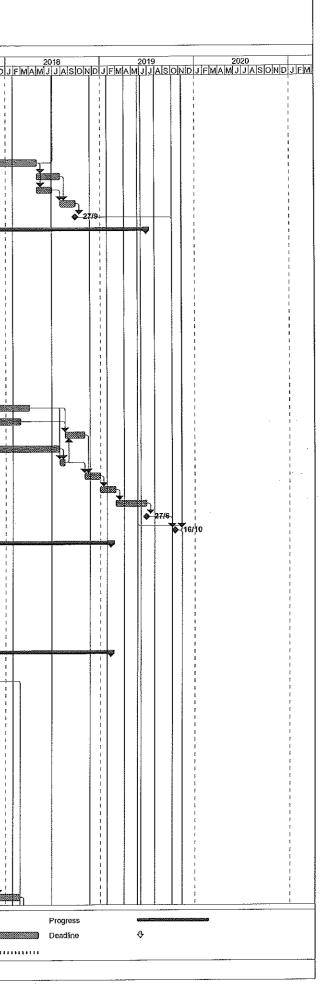
ID Ta	ask Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	2016 MAMJJASON	
38	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 28/3/17	Mon 17/4/17	14 days	0%	23755		
9	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 18/4/17	Mon 8/5/17	14 days	0%	237,238		¦ ŭ
>	RW 42 (60M)	90 days	7 days	Tue 5/9/17	Sun 3/12/17	-105 days	0%	230,239,236,160		
	NCE EFFECT ON ADDED WATER STOP (RW42 ONLY)	10 days		Mon 4/12/17	Wed 13/12/17	-105 days	0%	240		
2	NCE EFFECT ON ADDED CHAMFER (RW42 ONLY)	5 days		Thu 14/12/17	Mon 18/12/17	-105 days	0%	241		
13	RW 43 (50M)	60 days	5 days	Tue 19/12/17	Fri 16/2/18	62 days	0%	230,242		
4	RW 44 (36M U)	60 days	5 days	Sat 17/2/18	Tue 17/4/18	62 days	0%	243		
5	NCE EFFECT ON ADDED WATER STOP (RW43, 44 ONLY)	12 days		Wed 18/4/18	Sun 29/4/18	62 days	0%	244		
6	NCE EFFECT ON ADDED CHAMFER (RW43, 44 ONLY)	6 days		Mon 30/4/18	Sat 5/5/18	62 days	0%	245		72
17	RAMP PR3 CONSTRUCTION	30 days	3 days	Sun 6/5/18	Mon 4/6/18	62 days	0%	246		1
18	EARTHWORKS AND DRAINAGE WORKS	240 days	21 days	Sun 6/5/18	Mon 31/12/18	62 days	0%	244,247FS-30 days		
9	ROAD WORKS (1,3 KM)	120 days	10 days	Tue 1/1/19	Tue 30/4/19	62 days	0%	248		
0	RESTING STATION R8	240 days	21 days	Sat 4/8/18	Sun 31/3/19	92 days	0%	249FF-30 days		
1	COMPLETION OF PORTION F	0 days		Tue 30/4/19	Tue 30/4/19	62 days	0%	249,250		
2	PORTION G - (BRIDGE C : CSD) CH ST 1+210 - CH ST 1+310)	790 days		Thu 30/6/16	Tue 28/8/18	307 days	68%			
3	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	159	- \$ 3D/6	F
4	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	253\$\$		
5	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	254		
6	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	0 days	100%	255,254		
7 -	UTILITIES DIVERSION WORKS (HKB & TGT)	150 days	0 day	Fri 6/1/17	Sun 4/6/17	0 days	100%	254,255		
8	PREPARATION OF TOMP FOR PRE-DRILLING WORKS	100 days	10 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	25388		
59	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sat 8/10/16	Fri 21/10/16	0 days	100%	258		
50 50	CONTRACTOR DESIGN FOR FOUNDATION		12 uujo	Thu 30/6/16	Tue 4/7/17	426 days	72%			<u></u>
	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	266 days		Thu 30/6/16	Wed 22/3/17	0 days	100%	25355		
51 52	REVIEW AND APPROVED BY SUPERVISOR			Thu 23/3/17	Wed 29/3/17	426 days	0%	261		
		7 days					0%	282		
3	REVIEW AND APPROVED BY PM	7 days		Thu 30/3/17	Wed 5/4/17	426 days	0%	263		
4	REVIEW AND APPROVED BY DSD/HYD	90 days		Thu 6/4/17	Tue 4/7/17	426 days		264		
5		0 days		Tue 4/7/17	Tue 4/7/117	426 days	0%			
6	PREDRILLING WORKS FOR PILES	30 days	3 days	Sat 20/5/17	Sun 18/6/17	0 days	100%	365]	🖣
57	STARTING DATE OF DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	307 days	0%	266		
8	BOX CULVERT CONSTRUCTION (3 CELLS) WITH DRAINAGE DIVERSION WORKS	N 135 days	10 days	Wed 1/11/17	Thu 15/3/18	307 days	0%	267,256,257,265		
9	REMOVAL OF DRAINAGE DIVERSION WORKS	16 days	2 days	Fri 16/3/18	Sat 31/3/18	307 days	0%	268.		
70	END DATE OF DRY SEASON ,	0 days		Sat 31/3/18	Sat 31/3/18	307 days	0%	269		
1	BRIDGE ASSOCIATED WORKS, WATERMAIN WORKS	90 days	10 days	Sun 1/4/18	Fri 29/6/18	307 days	0%	269,270		
2	ROAD WORKS	60 days	10 days	Sat 30/6/18	Tue 28/8/18	307 days	0%	271		
3	COMPLETION OF PORTION G	0 days		Tue 28/8/18	Tue 28/8/18	307 days	0%	272		
4	PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)	1142 days		Sun 28/8/16	Mon 14/10/19	-105 days	25%			<u> </u>
5	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	159FS+60 days	\$ 28/8	
6	INITIAL SURVEY	65 days	4 days	Mon 29/8/16	Tue 1/11/16	D days	100%	275SS		
7	TREE SURVEY	65 days	4 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	276		⇔ ∖
8	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Fri 6/1/17	Wed 5/4/17	135 days	80%	277		.
9	APPLIED TTA APPROVAL FOR REALIGNMENT	180 days	14 days	Thu 6/4/17	Mon 2/10/17	135 days	0%	278		
0	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	300 days	0 day	Wed 2/11/16	Mon 28/8/17	7 days	40%	276	👗	
11	GROUND INVESTIGATION WORKS (6 NOS. BOREHOLE & TRIAL PITS)	100 days	4 days	Sun 5/2/17	Mon 15/5/17	103,6 days	88%	278SS+30 days		Ļ ,
32	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Sun 5/2/17	Sat 25/2/17	0 days	100%	281SS		
3				Tue 16/5/17	Mon 5/6/17	91 days	60%	281		
····	INSTALLATION OF MONITORING MARKERS	21 days	2 days		Wed 30/5/18	-105 days	00%	280,278,281,283,282,160,242		"
4	RW 49 (130M)	163 days	12 days	Tue 19/12/17				284,304FS+60 days		
5	RW 45A (73M)	120 days	10 days	Sat 30/6/18	Sal 27/10/18	-63 days	0%			
6	RW 46B (58M)	103 days	10 days	Sun 28/10/18	Thu 7/2/19	-63 days	0%	285		
7	DW1 & DW1A (130M)	112 days	10 days	Tue 14/8/18	Mon 3/12/18	-105 days	0%	293		
в	DW2 (92M)	110 days	10 days	Tue 4/12/18	Sat 23/3/19	-105 days	0%	287		
9	NCE EFFECT ON ADDED WATER STOP (DW1 & DW2)	13 days		Sun 24/3/19	Fri 5/4/19	-105 days	0%	288		;
0	NCE EFFECT ON ADDED CHAMFER (DW1 & DW2)	25 days		Sat 6/4/19	Tue 30/4/19	-105 days	0%	289		
	EARTHWORKS AND DRAINAGE WORKS	147 days	14 days	Fri 22/3/19	Thu 15/8/19	-105 days	0%	286,290FS-40 days		
2	PART OF ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY	45 days	4 days	Thu 31/5/18	Sat 14/7/18	-105 days	0%	284,279		
3	REALIGNMENT CARRIAGEWAY	30 days	3 days	Sun 15/7/18	Mon 13/8/18	-105 days	0%	292		
F	ROAD WORKS	60 days	5 days	Fri 16/8/19	Mon 14/10/19	-105 days	0%	291		
5	COMPLETION OF PORTION H	0 days		Mon 14/10/19	Mon 14/10/19	-105 days	0%	294		
6	PORTION I (CH ST 1,625 - CH ST 1,70)	820 days		Thu 30/6/16	Thu 27/9/18	277 days	49%			
7	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	255	30/6	
			I		1	1	l	1		
	Task Summ	aty	V	External Milesto	one 🗇	Inactive Su	mmary 🤇	Manual Summary Rollup	Finish-	•
	Split Projec	t Summary	Q	Inactive Task	C	Manual Tas	sk 🕻	Manual Summary	Critical	

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



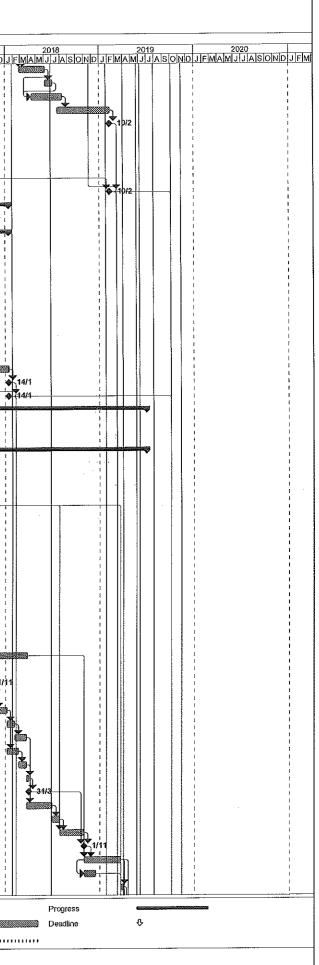
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D	Task Name	Duration	Time Risk Ea Allowance (days)	rly Start E	Early Finish	Float	% Complete		2016 MAMJJASOND	IFMAN
8	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	297SS		
99	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	0 days	100%	29855	}	
300	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	2 days	Fri 6/1/17	Sat 4/2/17	-3 days	80%	299,298		₽ -{
301	TTM PREPARATION	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	255		
302	TTM APPROVAL BY RSS/TMLG	100 days	5 days	Tue 27/12/16	Wed 5/4/17	-63 days	48%	301		φ.
303	SUBWAY D WITH PUMP ROOM CONSTRUCTION (3BAYS)	150 days	14 days	Thu 6/4/17	Sat 2/9/17	-63 days	0%	302,300		
304	RAMP (14 BAYS)	240 days	21 days	Sun 3/9/17	Mon 30/4/18	-63 days	0%	303		
305	FINISHING WORKS AND E&M WORKS	90 days	7 days	Tue 1/5/18	Sun 29/7/18	277 days	0%	304		
306	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Tue 1/5/18	Fri 29/6/18	307 days	0%	304		
307	ROAD WORKS	60 days	5 days	Mon 30/7/18	Thu 27/9/18	277 days	0%	306,305		
308	COMPLETION OF PORTION I	0 days		Thu 27/9/18	Thu 27/9/18	277 days	0%	307		
309	PORTION N (BRIDGE B : CSD) CH ST 0.150 - CH ST 1.097)	1093 days		Thu 30/6/16	Thu 27/6/19	4 days	19%			┿╼┑╢╼╌╸
310	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	159	\$ 30/6	
311	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	31055		
312	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	311	č	\parallel
313	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	150 days	5 days	Fri 6/1/17	Sun 4/6/17	211 days	50%	312,311	1 7	
314	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	240 days	10 days	Fri 6/1/17	Sat 2/9/17	121 days	50%	312		
315	CONTRACTOR DESIGN FOR FOUNDATION	397 days	· · · · · · · · · · · · · · · · ·	Thu 30/6/16	Mon 31/7/17	4 days	0%			
316	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	293 days		Thu 30/6/16	Tue 18/4/17	4 days	0%	310SS		
317	REVIEW AND APPROVED BY SUPERVISOR	7 days		Wed 19/4/17	Tue 25/4/17	4 days	0%	316	1	
318	REVIEW AND APPROVED BY PM	7 days	<u> </u>	Wed 26/4/17	Tue 2/5/17	4 days	0%	317		
319	REVIEW AND APPROVED BY PM	90 days		Wed 3/5/17	Mon 31/7/17	4 days	0%	318		
319	COMMENCEMENT OF SITE WORKS	0 days		Mon 31/7/17	Mon 31/7/17	4 days	0%	319		
		ļ	3 days	Sun 5/2/17	Mon 6/3/17	36 days	50%	312FS+30 days	1	₩
321	PRE-DRILLING WORKS FOR PILES ABUTMENT CONSTRUCTION	30 days	3 days	Sun 5/2/17 Sun 3/9/17	Sat 31/3/18	121 days	0%	320,321,313,314		
322		210 days	7 days	t			0%	320		
323	OFFSITE FABRICATION OF BRIDGE MEMBERS	210 days	10 days	Tue 1/8/17	Mon 26/2/18	175 days				
324	STEEL TRUSS AND DESK CONSTRUCTION	75 days	7 days	Fri 17/8/18	Tue 30/10/18	4 days	. 0%	323,322,326		
325	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	10 days	Tue 1/8/17	Thu 26/7/18	4 days	0%	320		
326	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Fri 27/7/18	Thu 16/8/18	4 days	0%	325,322		
327	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Wed 31/10/18	Sat 29/12/18	4 days	0%	324,326		
328	ROAD WORKS	60 days	5 days	Sun 30/12/18	Wed 27/2/19	4 days	0%	327		
329	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	120 days	10 days	Thu 28/2/19	Thu 27/6/19	4 days	0%	328		
330	COMPLETION OF PORTION N	0 days		Thu 27/6/19	Thu 27/6/19	4 days	0%	329		
331	COMPLETION OF SECTION W2	0 days		Wed 16/10/19	Wed 16/10/19	-107 days	0%	224,251,273,295,308,330		
332	SECTION W3	956 days		Thu 30/6/16	Sun 10/2/19	-42 days	33%		r II 🗣	
333	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	288	30/6	
334	CONTRACTOR DESIGN FOR RETAINING WALL	379 days		Thu 30/6/16	Thu 13/7/17	4 days	0%			
335	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD)	275 days		Thu 30/6/16	Fri 31/3/17	4 days	0%	333		
336	REVIEW AND APPROVED BY SUPERVISOR	7 days		Sat 1/4/17	Fri 7/4/17	4 days	0%	335		1 5
337	REVIEW AND APPROVED BY PM	7 days		Sal 8/4/17	Fri 14/4/17	4 days	0%	336	r IIII	l K
338	REVIEW AND APPROVED BY GEO/HYD	90 days		Sat 15/4/17	Thu 13/7/17	4 days	0%	337		
339	COMMENCEMENT OF SITE WORK	0 days		Thu 13/7/17	Thu 13/7/17	4 days	0%	338		
340	PORTION K (CH KW 1+360 - CH KW 2+070)	956 days		Thu 30/6/16	Sun 10/2/19	-42 days	42%			
341	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	333	-\$ 30/6	
342	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA		0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	34155	}	┼╢
343	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	341SS		
344	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	0 days	100%	343		
345	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	0 days	100%	344,343		
346	UTILITIES DIVERSION WORKS (CLP, PCCW & FW MAINS)	60 days	0 day	Thu 25/8/16	Sun 23/10/16	0 days	100%	344		
347	GROUND INVESTIGATION WORKS (4 NOS, BOREHOLES & TRIAL PITS)	68 days	5 days	Mon 12/9/16	Fri 18/11/16	0 days	100%	345SS+18 days		
348	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	0 days	100%	347\$\$	96	
349	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Sat 19/11/16	Fri 9/12/16	0 days	100%	347		.
350	RW 29C (66M)	130 days	7 days	Sat 10/12/16	Tue 18/4/17	-42 days	70%	345,346,347,349,348		₩ ₽
351	NCE EFFECT ON ADDED SUB SOIL DRAIN (RW29C ONLY)	3 days		Wed 19/4/17	Fri 21/4/17	-42 days	0%	350		5
352	NCE EFFECT ON ADDED CHAMFER (RW29C ONLY)	6 days		Sat 22/4/17	Thu 27/4/17	-42 days	0%	351		
353	NCE EFFECT ON ADDED WATER STOP (RW29C ONLY)	3 days		Fri 28/4/17	Sun 30/4/17	-42 days	0%	352	E .	เรื
354	EARTHWORKS AND DRAINAGE WORKS, KW1+360 - KW1+460; KW 1+600 -	· ·	21 days	Mon 1/5/17	Mon 28/8/17	-42 days	0%	353	100 - 100 -	
	KW1+900 ; KW 1+2+140 - KW 2+450		L					000.051		
355	RW 29B (50M) (CSD - FILL SLOPE)	80 days	7 days	Tue 29/8/17	Thu 16/11/17 Sat 24/2/18	-42 days -42 days	0% 0%	339,354 355		
356	RW 29A (90M) (CSD - FILL SLOPE)	100 days	7 days	Fri 17/11/17	Jai 24/2/18	-42 uays	i~ /0		t	
	Task Garage Summary			External Mileston	e 🗇	Inactive Su	mmary 🤇	Manual Summary Rollup	Finish-only	y
	Split Project S	ummarv		Inactive Task	(Manual Ta	sk 🖬	Manual Summary	Critical	



SANG HING - KULY JOINT VENTURE

ID	Task Name	Duration	Time Risk Allowance (days)	arly Start	Early Finish	Float	% Complete	Predecessors	MALATI	2016 MJJASOND	IFMAM	2017 AU114
357	RW 27 (90M) (CSD - FILL SLOPE)	100 days	7 days	Sun 25/2/18	Mon 4/6/18	-42 days	0%	356,342				101017
58	STREAM DECKING D9	30 days	7 days	Tue 5/6/18	Wed 4/7/18	-35 days	0%	357				
359	EARTHWORKS AND DRAINAGE WORKS	120 days	21 days	Fri 13/4/18	Fri 10/8/18	-42 days	0%	358FS-90 days,357FS-53 days			1	
360	ROAD WORKS	204 days	21 days	Sun 22/7/18	Sun 10/2/19	-42 days	0%	359FS-20 days				
361	COMPLETION OF PORTION K	0 days		Sun 10/2/19	Sun 10/2/19	-42 days	0%	360				
362	PORTION J1	280 days		Sun 28/8/16	Sun 4/6/17	36 days	33%					~
363	POSSESION OF SITE (J1)	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	439FS+60 days		28/8		
64	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	0 days	100%	36355		♥₩₩───		
365	SITE INVESTIGATION	90 days	10 days	Tue 7/3/17	Sun 4/6/17	36 days	0%	321,364				@ <u>/</u>
366	COMPLETION OF SECTION W3	0 days		Sun 10/2/19	Sun 10/2/19	-42 days	0%	361,365				
367	SECTION W4 PUBLIC TOILET	564 days		Thu 30/6/16	Sun 14/1/18	-14 days	29%					<u>Fedeletice75</u>
368	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	255		30/6		
69	PORTION L	564 days	-	Thu 30/6/16	Sun 14/1/18	-14 days	29%					
70	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	368		¢ 3D/6	1	
71	DOCUMENT SUBMISSION	100 days	7 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	370				
72	R.C. STRUCTURE	210 days	10 days	Sat 8/10/16	Fri 5/5/17	-14 days	60%	371				1
73	EQUILIZATION TANL	45 days	4 days	Sat 6/5/17	Mon 19/6/17	-8 days	0%	372			ÌÌÌ	<u>ل</u> هم
74	SLUDGE HOLDING TANK	45 days	4 days	Tue 20/6/17	Thu 3/8/17	-8 days	0%	373				🍈
75	BIO-TREATMENT FACILITY	60 days	5 days	Fri 4/8/17	Mon 2/10/17	-8 days	0%	374				
76	STEEL HOLLOW SECTION AT ROOF	60 days	5 days	Wed 5/7/17	Sat 2/9/17	22 days	0%	377				
77	INTERNAL FINISHES	60 days	5 days	Sat 6/5/17	Tue 4/7/17	-14 days	0%	372				6
				Wed 5/7/17	Sun 8/10/17	-14 days	0%	377	——			-
78 79	E&M. WORKS AND PD INSTALLATION EXTERNAL FINISHES AND SURROUNDING AREA	96 days 98 days	7 days	Mon 9/10/17	Sun 14/1/18	-14 days	0%	378,376,375				[¹
			7 days				0%	379				
80		0 days		Sun 14/1/18	Sun 14/1/18	-14 days	0%	380				
381	COMPLETION OF SECTION W4	0 days		Sun 14/1/18	Sun 14/1/18	-14 days		300		E		
82	SECTION W5 (SS 0.0 - 270)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	23%	000		2010		
83	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	288		3D/6		
84	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS			<u> </u>	
85	PORTION M (BRIDGE E)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	15%				!	
86	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	383SS		} 30/6		
87	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	386SS		}₩8 -		
88	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	386SS		} ∰_		a -
389	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 28/7/16	Sun 25/9/16	672 days	40%	388				-
90	PREPARATION TDMP FOR PRE-DRILLING WORKS	45 days	4 days	Thu 30/6/16	Sat 13/8/16	0 days	100%	386SS		₩¢₩		
91	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sun 14/8/16	Sat 27/8/16	0 days	100%	390				
392	STARTING DATE OF 1ST DRY SEASON	0 days		Tue 1/11/16	Tue 1/11/16	0 days	100%	391		🎽 1/	/1/	
93	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/11/16	0 days	100%	392,387,389SS+10 days		4		
94	PRE-DRILLING WORKS FOR PILES AT GRID 2	7 days	4 days	Thu 1/12/16	Wed 7/12/16	0 days	100%	393		•	-	
95	PRE-DRILLING WORKS FOR PILES AT GRID 3	7 days	4 days	Sun 15/1/17	Sat 21/1/17	0 days	100%	394,384			Ĩ⊢_	
96	PRE-DRILLING WORKS FOR PILES AT GRID 1	7 days	4 days	Wed 1/3/17	Tue 7/3/17	0 days	100%	395			1	
97	REMOVAL OF TEMPORARY DRAINAGE WORK	24 days	2 days	Wed 8/3/17	Fri 31/3/17	0 days	100%	395FS+7 days				
98	END DATE OF 1ST DRY SEASON	0 days		Fri 31/3/17	Fri 31/3/17	92 days	0%	397			4,31	1/3
99	PREPARATION OF TDMP FOR PILING WORKS	120 days	7 days	Mon 10/4/17	Mon 7/8/17	35 days	40%	398,396				
00	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	30 days	Sat 1/4/17	Mon 26/3/18	219 days	0%	397				
		-		Tue 8/8/17	Tue 26/9/17	35 days	0%	399			H I	Ì
101	APPROVAL OF TOMP BY SUPERVISOR/DSD	50 days	2 days				0%	401				
02	STARTING DATE OF 2ND DRY SEASON	0 days	O stava	Wed 1/11/17	Wed 1/11/17	0 days		401				
03	TEMPORARY DRAINAGE WORKS (2ND DRY SEASON)	21 days	2 days	Wed 1/11/17	Tue 21/11/17	0 days	0%		····· /····			
04	PILING WORKS AT GRID 2	45 days	4 days	Wed 22/11/17	Fri 5/1/18	0 days	0%	403			1	
05	PILE CAP AT GRID 2	30 days	3 days	Sal 6/1/18	Sun 4/2/18	0 days	0%	404				
06	PIER CONSTRUCTION AT GRID 2	45 days	4 days	Mon 5/2/18	Wed 21/3/18	0 days	0%	405				
07	PILING WORKS AT GRID 3	45 days	4 days	Sat 6/1/18	Mon 19/2/18	0 days	0%	404				
80	PILE CAP AT GRID 3	30 days	3 days	Tue 20/2/18	Wed 21/3/18	0 days	0%	407				
09	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	408,406				
10	END DATE OF 2ND DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	409				1
11	PILING WORKS AT GRID 1 WITH ALL PILE LOAD TESTING	100 days	7 days	Thu 22/3/18	Fri 29/6/18	0 days	0%	408			1	
12	PILE CAP AT GRID 1	30 days	3 days	Sat 30/6/18	Sun 29/7/18	0 days	0%	411			1	
13	ABUTMENT AT GRID 1	94 days	7 days	Mon 30/7/18	Wed 31/10/18	0 days	0%	412,389				
14	STARTING DATE OF 3RD DRY SEASON	0 days	-	Thu 1/11/18	Thu 1/11/18	0 days	0%	413,410FS+214 days				
15	BRIDGE DECK CONSTRUCTION WITH TEMPORARY DRAINAGE WOP		10 days	Thu 1/11/18	Thu 21/3/19	0 days	0%	414,400				
16	ABUTMENT AND MOVEMENT JOINT AT GRID 3	45 days	4 days	Thu 1/11/18	Sal 15/12/18	96 days	0%	41555				
17	REMOVAL OF TEMPORARY DRAINAGE WORK		2 days	Fri 22/3/19	Sun 31/3/19	0 days	0%	415				
"		io uayo	- ***	,,,]		l	<u> </u>	<u> </u>	I
	Task Su	mmary		External Milestor	ne 🗇	Inactive Su	ımmary 🗸	🖂 💭 Manual Summary Rollup 🖬		Finish-or	ıly	:
	Split Pro	ject Summary	Ŷ	Inactive Task		Manual Ta	sk 🗉	Manual Summary		Critical		ſ
					e 💠	Duration-o	nlv ::	Start-only		Critical S	split	ı
	Milestone 🔶 Ex	ernal Tasks										



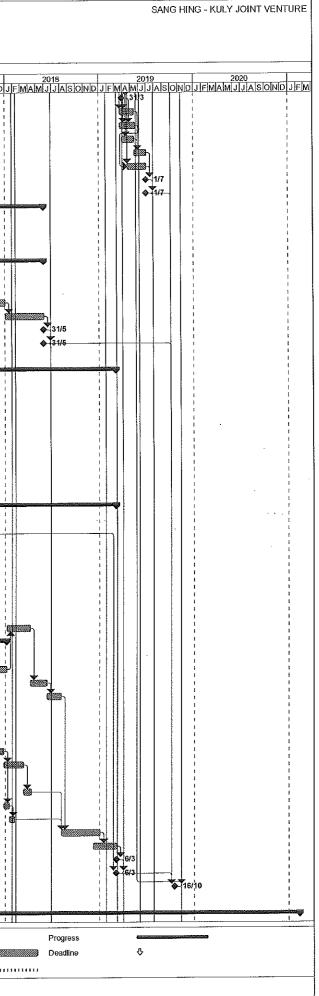
SANG HING - KULY JOINT VENTURE

D	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish F	loat	% Complete	Predecessors	2016 MAMJJJASONDJ	2017 JFMAMJJAS
418	END DATE OF 3RD DRY SEASON	0 days		Sun 31/3/19	Sun 31/3/19	0 days	0%	417		
119	RAMP	55 days	5 days	Fri 22/3/19	Wed 15/5/19	0 days	0%	415,416,389		
20	STEEL STRUCTURAL ROOF WORKS	60 days	5 days	Fri 22/3/19	Mon 20/5/19	0 days	0%	415,418FS-10 days		
21	EARTHWORKS AND DRAINAGE WORKS	45 days	4 days	Mon 1/4/19	Wed 15/5/19	0 days	0%	417		
22	ROAD WORKS	47 days	4 days	Thu 16/5/19	Mon 1/7/19	0 days	0%	421,419		
23	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	72 days	7 days	Sun 21/4/19	Mon 1/7/19	0 days	0%	415FS+30 days,420FS-30 days		
24	COMPLETION OF PORTION M	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	422,423		
25	COMPLETION OF SECTION W5	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	929		
26	SECTION W6 (TM0.0 - 960)	701 days		Thu 30/6/16	Thu 31/5/18 Thu 30/6/16	0 days 0 days	37% 0%	288	- bo 30/6	
27	STARTING DATE OF CONTRACT	0 days	10 daug	Thu 30/6/16 Thu 30/6/16	Tue 25/4/17	34 days	60%	42755		
28 29	APPLICATION OF EXCAVATION PERMIT	300 days	10 days	Thu 30/6/16	Tue 25/4/17	34 days	60%	42785		
29 30	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	300 days	10 days	Mon 29/6/17	Thu 31/5/18	0 days	0%			
30 31	PORTION P	367 days		Mon 29/5/17	Mon 29/5/17	0 days	0%	427FS+334 days,429		29/5
2	POSSESION OF SITE DOCUMENT SUBMISSION	0 days	5 days	Tue 30/5/17	Fri 28/7/17	0 days	0%	431,428,429		
3	DRAINAGE WORKS	60 days 157 days	10 days	Sat 29/7/17	Mon 1/1/18	0 days	0%	432	_	
14	ROAD WORKS	150 days	10 days	Tue 2/1/18	Thu 31/5/18	0 days	0%	433		
5	COMPLETION OF PORTION P	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	434		
6	COMPLETION OF FORTION F	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	435		
7										
8	SECTION W7 (ST2.27 - 2.73, KW 0 - 1.35)	980 days		Thu 30/6/16	Wed 6/3/19	0 days	27%			
	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	250 days	0%	286	30/6	+
5	CONTRACTOR DESIGN FOR RETAINING WALL	376 days		Thu 30/6/16	Mon 10/7/17	0 days	83%			┿┿╬═╾┥
	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD) FOR RW47	247 days		Thu 30/6/16	Fri 3/3/17	0 days	100%	43988		
2	PREPARATION FOR CONTRACTOR SAVING DESIGN (CSD) FOR RW46,	265 days	1	Thu 30/6/16	Tue 21/3/17	0 days	100%	43955		###{
	RW48						*****			
3	REVIEW AND APPROVED BY SUPERVISOR	14 days		Wed 22/3/17	Tue 4/4/17	0 days	50%	442,441		
1	REVIEW AND APPROVED BY PM	7 days	1	Wed 5/4/17	Tue 11/4/17	0 days	0%	443	I	
1	REVIEW AND APPROVED BY GEO/HYD	. 90 days		Wed 12/4/17	Mon 10/7/17	0 days	0%	444		
	COMMENCEMENT OF SITE WORK	0 days		Mon 10/7/17	Mon 10/7/17	0 days	0%	445		<u> </u> • 10/
	PORTION J2, J3	730 days		Tue 7/3/17	Wed 6/3/19	0 days	0%		1	
	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	<u>.</u>		7/3
)	POSSESSION OF SITE (J2, J3)	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	448SS,439		7/3
>	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Tue 7/3/17	Sat 2/9/17	135 days	0%	448SS		
1	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORIES HEIGHT TEMP, BLDG	28 days	2 days	Tue 7/3/17	Mon 3/4/17	98 days	0%	44955		
				7	Mag 0/4/47	00 -2	0%	22044		
	INITIAL SURVEY	28 days	2 days	Tue 7/3/17	Mon 3/4/17	68 days	0%	449SS 449SS		
<u> </u>		28 days	2 days	Tue 7/3/17	Mon 3/4/17 Wod 3/5/17	68 days	0%	453,452		
	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	3 days	Tue 4/4/17	Wed 3/5/17 Fri 6/4/18	68 days O days	0%	458		
	RW 46 (67M) (CSD)	90 days	7 days	Sun 7/1/18 Tue 11/7/17	Sat 6/1/18	0 days	0%			
	RW 47 (CSD - CUT SLOPE AND SOIL NAILS)	180 days 120 days	10 days	Tue 11/7/17	Tue 7/11/17	0 days 0 days	0%	454,451,446,365		
3	EARTHWORK GEOTECHNICAL AND SLOP DRAINAGE WORKS	60 days	7 days	Wed 8/11/17	Sat 6/1/18	0 days	0%	457		
	RW 48 (CSD): BAY 1 - BAY 6 (60M)	65 days	5 days	Sat 7/4/18	Sun 10/6/18	0 days	0%	455		
-	RW 48 (CSD): BAY 1 - BAY 16 (50M) RW 48 (CSD): BAY 7 - BAY 11 (50M)	55 days	5 days	Mon 11/6/18	Sat 4/8/18	0 days	0%	459		
_	EARTHWORKS AND DRAINAGE WORKS (KW 1+080 - KW1+360)	90 days	7 days	Thu 4/5/17	Tue 1/8/17	116 days	0%	454		
	RW 24A (20M)	21 days	2 days	Fri 1/9/17	Thu 21/9/17	116 days	0%	466,365	·····	
+	RW 24B (18M)	21 days	2 days	Fri 22/9/17	Thu 12/10/17	116 days	0%	462,450		
	RW 24C (82M)	75 days	7 days	Fri 13/10/17	Tue 26/12/17	116 days	0%	463		-
	RW 25 (83M)	75 days	7 days	Wed 27/12/17	Sun 11/3/18	116 days	0%	464		
- -	RW 26 (20M)	30 days	2 days	Wed 2/8/17	Thu 31/8/17	116 days	0%	461	-1 :	8
	STREAM DECKING D8	30 days	2 days	Mon 12/3/18	Tue 10/4/18	116 days	0%	465	1	
- -	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Wed 27/12/17	Tue 16/1/18	179 days	0%	464		
	DEMOLITION OF EXISTING STRUCTURE	21 days	3 days	Wed 17/1/18	Tue 6/2/18	179 days	0%	468		-
÷	EARTHWORKS AND DRAINAGE WORKS	150 days	10 days	Sun 5/8/18	Tue 1/1/19	0 days	0%	469,467,460		
	ROAD WORKS	90 days	7 days	Fri 7/12/18	Wed 6/3/19	0 days	0%	470FS-26 days		
┦	COMPLETION OF PORTION J	0 days	-	Wed 6/3/19	Wed 6/3/19	0 days	0%	471		
	COMPLETION OF SECTION W7	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	472,449FS+730 days	E	
+	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Wed 16/10/19	Wed 16/10/19	-107 days	0%	473,436,425,381,366,331,157	F I	
1									1	
L	ANDSCAPING SOFTWORKS AND ESTABLISHMENT WORK	1689 days		Thu 30/6/16	Fri 12/2/21	0 days	0%			
	Task Summar	à	v	External Mileston	e 🗇	Inactive Su	ımmary 🗸	Manual Summary Rollup		y 3
	Split Project S	lummary	Ş	Inactive Task	(Manual Ta		Manual Summary	Critical	
				inactive Mileston	÷ ¢	Duration-o		Start-only 🕻	Critical Sp	dit avri

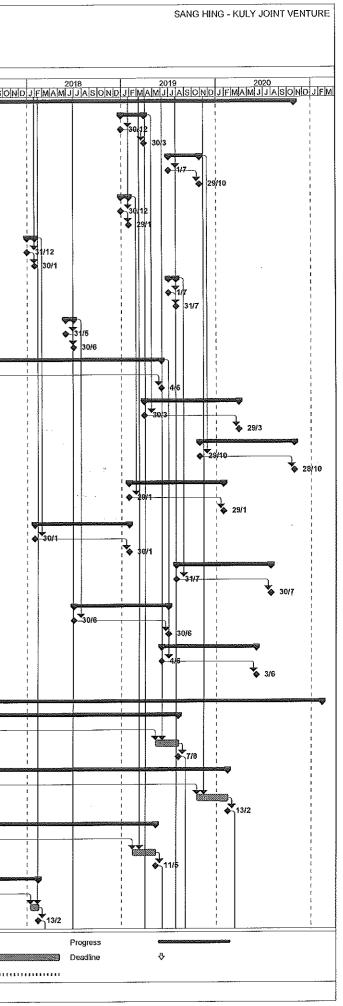
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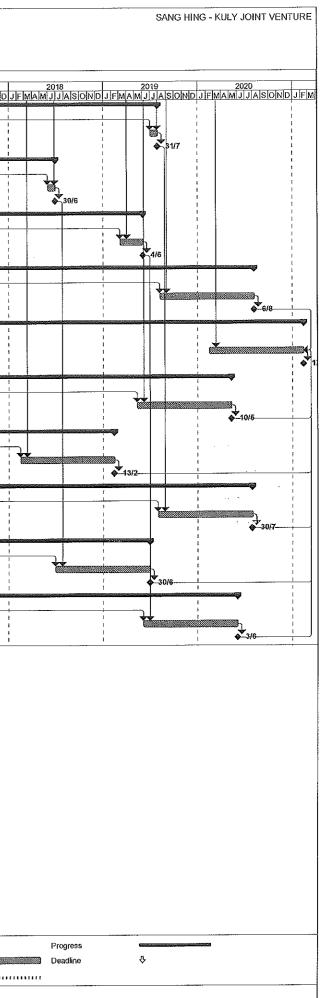
ID T	Task Name	Duration	Time Risk Allowance (days)		Early Finish	Float	% Complete	Predecessors	2016 MAMJJJAISON	20 DJFMAMJ	2017 J J A S
77	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1332 days		Tue 7/3/17	Wed 28/10/20	0 days	0%				
78	SECTION W8A	90 days		Sun 30/12/18	Sat 30/3/19	0 days	0%				
79	ACCESS DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	4 470EC+00 days			
80	COMPLETION DATE	0 days		Sat 30/3/19	Sat 30/3/19	0 days	0%	479FS+90 days		1	
81	SECTION W8B	120 days		Mon 1/7/19	Tue 29/10/19	0 days	6%	10			
82	ACCESS DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%				
83	COMPLETION DATE	0 days		Tue 29/10/19	Tue 29/10/19	0 days	0%	482FS+120 days		1	
84	SECTION WBC	30 days		Sun 30/12/18	Tue 29/1/19	0 days	0%				
85	ACCESS DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	18 40555 120 days			
86	COMPLETION DATE	0 days		Tue 29/1/19	Tue 29/1/19	0 days	0%	485FS+30 days			
87	SECTION W8D	30 days	<u>†</u>	Sun 31/12/17	Tue 30/1/18	0 days	0%				
88	ACCESS DATE	0 days		Sun 31/12/17	Sun 31/12/17	0 days	0%	24			
89	COMPLETION DATE	0 days		Tue 30/1/18	Tue 30/1/18	0 days	0%	488FS+30 days			
90	SECTION W8E	30 days		Mon 1/7/19	Wed 31/7/19	0 days	0%				
91	ACCESS DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	28			
92	COMPLETION DATE	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	491FS+30 days			
93	SECTION W8F	30 days		Thu 31/5/18	Sat 30/6/18	0 days	0%				
94	ACCESS DATE	0 days]	Thu 31/5/18	Thu 31/5/18	0 days	0%	32		1	
95	COMPLETION DATE	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	494FS+30 days			
96	SECTION W8G	820 days		Tue 7/3/17	Tue 4/6/19	0 days	0%				
97	ACCESS DATE	0 days		Tue 7/3/17	Tue 7/3/17	730 days	0%	37		♦ 7/3	
98	COMPLETION DATE	0 days		Tue 4/6/19	Tue 4/6/19	0 days	0%	497FS+90 days		1	
99	SECTION W9A	365 days		Sat 30/3/19	Sun 29/3/20	0 days	0%			1	
00	ACCESS DATE	0 days		Sat 30/3/19	Sat 30/3/19	0 days	0%	478			
01	COMPLETION DATE	0 days		Sun 29/3/20	Sun 29/3/20	0 days	0%	500FS+365 days			
02	SECTION W9B	365 days		Tue 29/10/19	Wed 28/10/20	0 days	0%			1	
03	ACCESS DATE	0 days		Tue 29/10/19	Tue 29/10/19	0 days	0%	481		1	
24	COMPLETION DATE	0 days		Wed 28/10/20	Wed 28/10/20	0 days	0%	503FS+365 days			
75	SECTION W9C	365 days		Tue 29/1/19	Wed 29/1/20	0 days	0%				
	ACCESS DATE	0 days		Tue 29/1/19	Tue 29/1/19	0 days	0%	484		1	
26	COMPLETION DATE	-		Wed 29/1/20	Wed 29/1/20	0 days	0%	506FS+365 dáys		1	
77		0 days			Wed 30/1/19		0%			1	
8	SECTION W9D	365 days		Tue 30/1/18		0 days	0%	487			
9	ACCESS DATE	0 days		Tue 30/1/18	Tue 30/1/18	0 days					
10	COMPLETION DATE	0 days		- Wed 30/1/19	Wed 30/1/19	0 days	0%	509FS+365 days		F	
11	SECTION W9E	365 days		Wed 31/7/19	Thu 30/7/20	0 days	0%	(00		1	
12	ACCESS DATE	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	490			
3	COMPLETION DATE	0 days		Thu 30/7/20	Thu 30/7/20	0 days	0%	512FS+365 days			
4	SECTION W9F	365 days		Sat 30/6/18	Sun 30/6/19	0 days	0%				
5	ACCESS DATE	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	493			
16	COMPLETION DATE	0 days		Sun 30/6/19	Sun 30/6/19	0 days	0%	515FS+365 days		i	
17	SECTION W9G	365 days		Tue 4/6/19	Wed 3/6/20	0 days	0%			1	
8	ACCESS DATE	0 days		Tue 4/6/19	Tue 4/6/19	D days	0%	496		3	
9	COMPLETION DATE	0 days		Wed 3/6/20	Wed 3/6/20	0 days	0%	518FS+365 days		1	
0											
21	PLANNED WORK PROGRAMME	1689 days		Thu 30/6/16	Frl 12/2/21	0 days	0%				
2	SECTION W8A	1134 days	+	Thu 30/6/16	Wed 7/8/19	0 days	0%			++	
3	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1044 days	0%	288	}@ 30/6		
4	LANDSCAPING SOFTWORKS	90 days	7 days	Pri 10/5/19	Wed 7/8/19	0 days	0%	157,523		1	
5	COMPLETION OF SECTION W8A	0 days	-	Wed 7/8/19	Wed 7/8/19	0 days	0%	524		E E	
26	SECTION W8B	1324 days		Thu 30/6/16	Thu 13/2/20	0 days	0%		Q		ormanisco)
27	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1204 days	0%	28S	\$\$ 30/6	<u></u>	
8	LANDSCAPING SOFTWORKS	120 days	10 days	Thu 17/10/19	Thu 13/2/20	0 days	0%	527,331		L	
9	COMPLETION OF SECTION W8B	0 days		Thu 13/2/20	Thu 13/2/20	0 days	0%	528			
				Thu 13/2/20	Sat 11/5/19	0 days	0%				ant Named Street
0	SECTION W8C	1046 days				956 days	0%	288			
1	STARTING DATE OF CONTRACT	0 days	7 dava	Thu 30/6/16	Thu 30/6/16 Sat 11/5/19	0 days	0%	366,531			
2		90 days	7 days	Mon 11/2/19				532			
3	COMPLETION OF SECTION W8C	0 days	1	Sat 11/5/19	Sat 11/5/19	0 days	0%				110000000
4	SECTION W8D	594 days	[Thu 30/6/16	Tue 13/2/18	0 days	0%	200	0100 44		
35	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	564 days	0%	288	▶�-30/6		
36	LANDSCAPING SOFTWORKS		3 days	Mon 15/1/18	Tue 13/2/18	0 days	0%	381,535			
7	COMPLETION OF SECTION W8D	0 days		Tue 13/2/18	Tue 13/2/18	0 days	0%	536		<u> </u>	
_	Task	Summory		External Milest	one 🗞	Inactive St	Immary C	Manual Summary Rollup	Finish-o	nly	
		Summary			viio ¥		,		Critical		6
	Split Milestone 🔷	Project Summary External Tasks	¥	Inactive Task	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	Manual Ta		Manual Summary V Start-only C		0-6	-
				Inactive Milest	one 🗘 enc	Duration-o		Start-only E	Critical	- olit	



D	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Ftoat	% Complete	Predecessors	2016 AMJJASON	
38	SECTION W8E	1127 days	1	Thu 30/6/16	Wed 31/7/19	0 days	0%			
39	STARTING DATE OF CONTRACT	0 days	1	Thu 30/6/16	Thu 30/6/16	1097 days	0%	2\$\$	}\$ 30/6	
0	LANDSCAPING SOFTWORKS	30 days	3 days	Tue 2/7/19	Wed 31/7/19	0 days	0%	425,539		1
1	COMPLETION OF SECTION W8E	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	540	1	
2	SECTION W8F	731 days	1	Thu 30/6/16	Sat 30/6/18	0 days	0%			
3	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	701 days	0%	255	\$\$ -30/6	
	LANDSCAPING SOFTWORKS	30 days	3 days	Fri 1/6/18	Sat 30/6/18	0 days	0%	543,436		1
;	COMPLETION OF SECTION W8F	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	544		1
	SECTION W8G	820 days		Tue 7/3/17	Tue 4/6/19	0 days	0%			
	INSTRUCTION TO EXECISE	0 days	1	Tue 7/3/17	Tue 7/3/17	730 days	0%	3788		 ♦♦ 7/3
1	LANDSCAPING SOFTWORKS	90 days	7 days	Thu 7/3/19	Tue 4/6/19	0 days	0%	473,547		i 1
	COMPLETION OF SECTION W8G	0 days		Tue 4/6/19	Tue 4/6/19	0 days	0%	548		il I
-	SECTION W9A	1499 days		Thu 30/6/16	Thu 6/8/20	0 days	0%		V	
1	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1134 days	0%	288	}\$ 30/6	
	ESTABLISHMENT WORKS	365 days	30 days	Thu 8/8/19	Thu 6/8/20	0 days	0%	525,551	1	1
1	COMPLETION OF SECTION W9A	0 days		Thu 6/8/20	Thu 6/8/20	0 days	0%	552		
T	SECTION W9B	1689 days		Thu 30/6/16	Fri 12/2/21	0 days	0%		V	
1	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1689 days	0%	288	} ∳ 30/6	
	ESTABLISHMENT WORKS	365 days	30 days	Fri 14/2/20	Fri 12/2/21	0 days	0%	529,553FF+190 days,561FF+278 days,565FF+730 da		
	COMPLETION OF SECTION W9B	0 days		Fri 12/2/21	Fri 12/2/21	0 days	0%	556		-
٦	SECTION W9C	1411 days	1	Thu 30/6/16	Sun 10/5/20	0 days	0%	-	V	
1	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1046 days	0%	288	}\$ 30/6	1
1	ESTABLISHMENT WORKS	365 days	30 days	Sun 12/5/19	Sun 10/5/20	0 days	0%	533,559		1
-	COMPLETION OF SECTION W9C	0 days		Sun 10/5/20	Sun 10/5/20	0 days	0%	560		1
	SECTION W9D	959 days		Thu 30/6/16	Wed 13/2/19	0 days	0%		P	
1	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	594 days	0%	288	∳ ∳-30/6	
	ESTABLISHMENT WORKS	365 days	30 days	Wed 14/2/18	Wed 13/2/19	0 days	0%	537,563		
1	COMPLETION OF SECTION W9D	0 days		Wed 13/2/19	Wed 13/2/19	0 days	0%	564		ſ
-	SECTION W9E	1492 days		Thu 30/6/16	Thu 30/7/20	0 days	0%			r l
1	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1127 days	0%	288	}\$ 30/6	
┦	ESTABLISHMENT WORKS	365 days	30 days	Thu 1/8/19	Thu 30/7/20	0 days	0%	541,567	ŕ	
1	COMPLETION OF SECTION W9E	0 days		Thu 30/7/20	Thu 30/7/20	0 days	0%	568		
	SECTION W9F	1096 days	<u> </u>	Thu 30/6/16	Sun 30/6/19	0 days	0%	· ·		<u></u>
1	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	731 days	0%	2SS	l }⊕ 30/6	1
ľ	ESTABLISHMENT WORKS	365 days	30 days	Sun 1/7/18	Sun 30/6/19	0 days	0%	545,571		
-	COMPLETION OF SECTION W9F	0 days		Sun 30/6/19	Sun 30/6/19	0 days	0%	572		4
T	SECTION W9G	1185 days		Tue 7/3/17	Wed 3/6/20	0 days	0%			
1	LAST DAY FOR INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	820 days	0%	3755		40 7/3
1	ESTABLISHMENT WORKS	365 days	30 days	Wed 5/6/19	Wed 3/6/20	0 days	0%	549,575		1
	COMPLETION OF SECTION W8A	0 days	Ť	Wed 3/6/20	Wed 3/6/20	0 days	0%	576		

Task		Summary	External Milestone	ا	Inactive Summary	\sim	Manual Summary Rol	iup caracteria	Finish-only	3
Split		Project Summary	Inactive Task		Manual Task		Manual Summary	Č.	Critical	
Milestone	\$	External Tasks	Inactive Milestone	¢	Duration-only		Start-only	C	Critical Split	

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



APPENDIX B ACTION AND LIMIT LEVELS FOR NOISE

Appendix B - Action and Limit Levels

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Table B-1Action and Limit Levels for Construction Noise

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX C COPIES OF CALIBRATION CERTIFICATES



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/161230
	Room 1710, Technology Park,	Date of Issue:	2017-01-03
	18 On Lai Street,	Date Received:	2016-12-30
		Date Tested:	2016-12-30
	, , , , ,	Date Completed:	2017-01-03
		Next Due Date:	2018-01-02

ATTN: Mr. W. K. Tang

1 of 1

Page:

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : 'SVANTEK' Integrating Sound Level Meter : SVANTEK : SVAN 955 : 14303 : 35222 : N-08-05

Test conditions:

Room Temperatre Relative Humidity : 21 degree Celsius : 62 %

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB		
94	94.0		
114	114.0		

Remark: 1)This report supersedes the one dated 2012/01/21 with certificate number C/N/120120/1.

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

C/N/161128

2016-11-30 2016-11-28 2016-11-28 2016-11-30

2017-11-29 1 of 1

TEST REPORT Cinotech Consultants Limited 1710 Turker Buck

ALLUXOALL.	Chioteen Consultantes Lanatea	reperior
	Room 1710, Technology Park,	Date of Issue:
	18 On Lai Street,	Date Received:
	Shatin, NT, Hong Kong	Date Tested:
	-	Date Completed:

ATTN:

APPLICANT.

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 23853
Microphone No.	: 48530
Equipment No.	: N-08-10
s:	
Room Temperatre	: 21 degree Celsius

Next Due Date:

Page:

Test conditions:

Room Temperatre Relative Humidity : 21 degree Celsius : 66%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



WELLAB LIMITED Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	C/N/160919
Date of Issue:	2016-09-21
Date Received:	2016-09-19
Date Tested:	2016-09-19
Date Completed:	2016-09-21
Next Due Date:	2017-09-20
Page:	1 of 1

ATTN:

Mr. W.K. Tang

Certificate of Calibration

Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 977
Serial No.	: 45467
Microphone No.	: 62838
Equipment No.	: N-08-13
* *	

Test conditions:

Room Temperatre Relative Humidity : 22 degree Celsius : 56%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



WBLLAB LIMITED Rms 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT C/N/160930B Test Report No.: **Cinotech Consultants Limited APPLICANT:** 2016-10-03 Date of Issue: Room 1710, Technology Park, 2016-09-30 Date Received: 18 On Lai Street, 2016-09-30 Date Tested: Shatin, NT, Hong Kong 2016-10-03 Date Completed: Next Due Date: 2017-10-02 1 of 1 Page: ATTN: Mr. W.K. Tang Item for calibration: : Acoustical Calibrator Description : SVANTEK Manufacturer Model No. : SV30A :24791 Serial No. : N-09-04 Equipment No. **Test conditions:** : 25 degree Celsius Room Temperatre

Room Temperatre Relative Humidity

: 60%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

RATRICK TSE Laboratory Manager



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shain, N.T. Hong Kong, Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

	TEST	REPOR	T	
APPLICANT:	Cinotech Consultants I	imited	Test Report No.:	C/N/161104/1
	Room 1710, Technolog	y Park,	Date of Issue:	2016-11-07
	18 On Lai Street,		Date Received:	2016-11-04
	Shatin, NT, Hong Kong	5	Date Tested:	2016-11-04
			Date Completed: Next Due Date:	2016-11-07 2017-11-06
ATTN:	Mr. W.K. Tang		Page:	1 of 1
Item for calibra	tion:			
D	Description	: Acoustica	al Calibrator	
Ν	lanufacturer	: Brüel & I	Kjær	
Ν	Iodel No.	: 4231		
S	erial No.	: 2326353		
E	quipment No.	: N-02-01		
Test conditions:				
R	oom Temperatre	: 21 degree	e Celsius	
	elative Humidity	: 62 %		
	-		• • •	

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	$114.0 \pm 0.1 \text{ dB}$

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager

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APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Impact Noise Monitoring Schedule (May 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-May	2-May	3-May	4-May	5-May	6-May
					Noise	
7-May	8-May	9-May	10-May	11-May	12-May	13-May
					Noise	
14-May	15-May	16-May	17-May	18-May	19-May	20-May
				Noise		
21-May	22-May	23-May	24-May	25-May	26-May	27-May
		Noise				
28-May	29-May	30-May	31-May			

Noise Monitoring Station

- N1 HKMLC Wong Chan Sook Ying Memorial School
- N2 Bethel High School
- N3 No. 159 Mai Po San Tsuen
- N5 Dills Corner Garden Block 2
- N6 Home of Loving Faithfulness
- N7 Village House in Shek Wu Wai

Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction Tentative Impact Noise Monitoring Schedule (June 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jun	2-Jun	3-Jun
					Noise	
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jur
					, , , , , , , , , , , , , , , , , , , ,	
				Noise		
				Noise		
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jui
			Noise			
18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jui
		Noise				
		140136				
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	
					Noise	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Noise Monitoring Station

- N1 HKMLC Wong Chan Sook Ying Memorial School
- N2 Bethel High School
- N3 No. 159 Mai Po San Tsuen
- N5 Dills Corner Garden Block 2
- N6 Home of Loving Faithfulness
- N7 Village House in Shek Wu Wai

APPENDIX E NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix E - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

F

Location N1 - HKMLC Wong Chan Sook Ying Memorial School										
					Unit:	dB (A) (30-min)				
Date	Time	Weather	Meas	Measured Noise Level			Construction Noise Level			
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
5-May-17	9:00	Cloudy	63.4	66.7	58.2		57.2			
12-May-17	9:00	Cloudy	62.3	65.9	60.4	62.2	45.9			
18-May-17	10:35	Cloudy	63.4	66.5	60.0	02.2	57.2			
23-May-17	13:00	Sunny	65.5	67.5	61.2		62.8			

Location N2 - B	.ocation N2 - Bethel High School									
	Unit: dB (A) (30-min)									
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
5-May-17	9:45	Cloudy	62.6	63.4	54.5		61.7			
12-May-17	9:45	Cloudy	56.4	58.5	53.4	55.2	50.2			
18-May-17	11:35	Cloudy	59.4	61.2	55.3	55.2	57.3			
23-May-17	13:50	Sunny	64.8	66.3	57.8		64.3			

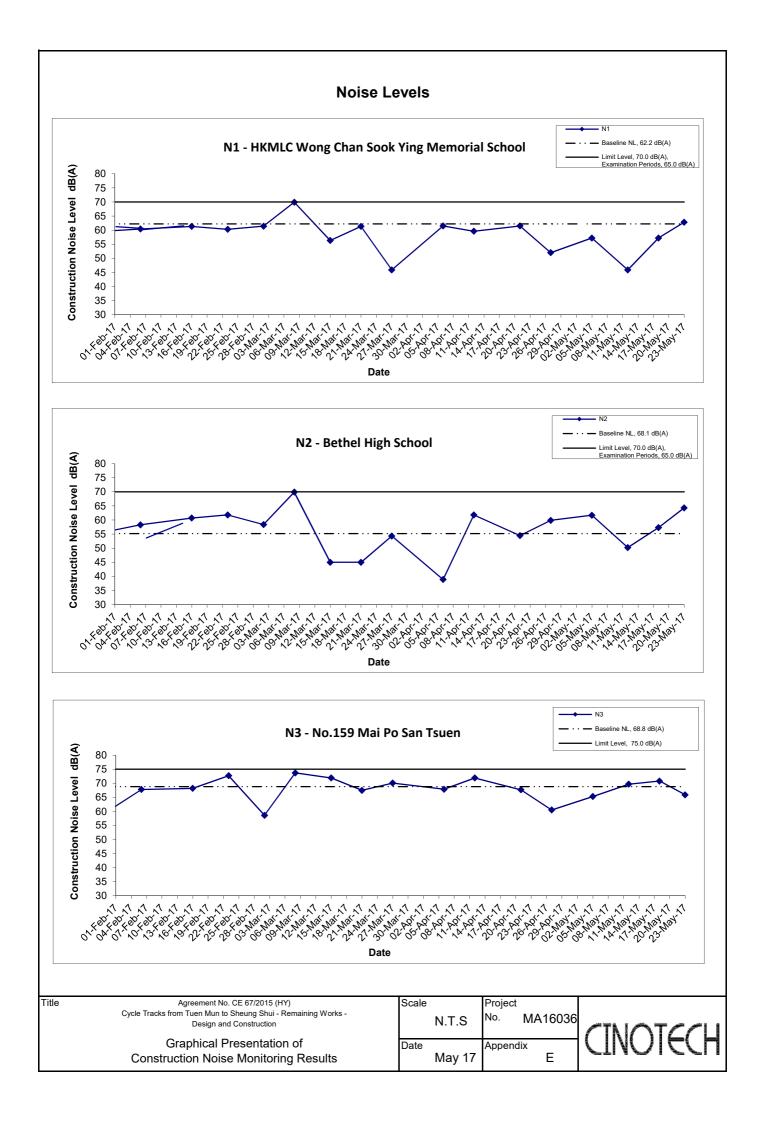
Location N3 - N	_ocation N3 - No.159 Mai Po San Tsuen									
					Unit:	dB (A) (30-min)				
Date	Date Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level				
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
5-May-17	10:30	Cloudy	70.4	72.0	66.3		65.3			
12-May-17	10:30	Cloudy	72.3	73.6	69.4	68.8	69.7			
18-May-17	9:50	Cloudy	72.9	75.3	68.4	00.0	70.8			
23-May-17	9:50	Sunny	70.6	72.4	66.8		65.9			

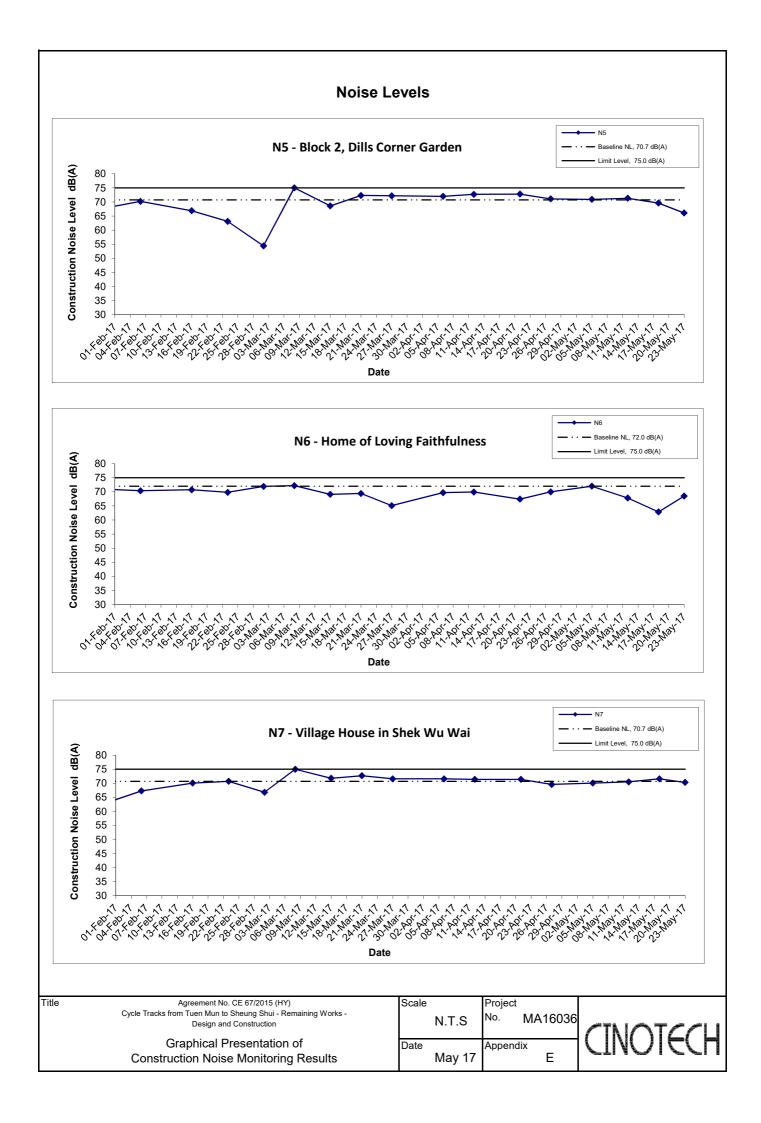
Location N5 - B	ocation N5 - Block 2, Dills Corner Garden										
					Unit:	dB (A) (30-min)					
Date	Date Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level				
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
5-May-17	13:00	Cloudy	73.8	74.9	71.6		70.9				
12-May-17	13:00	Cloudy	74.0	76.1	73.4	70.7	71.3				
18-May-17	13:15	Cloudy	73.2	75.0	69.3	10.1	69.6				
23-May-17	15:00	Sunny	72.0	73.9	68.7		66.1				

Location N6 - H	ocation N6 - Home of Loving Faithfulness									
				Unit: dB (A) (30-min)						
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
5-May-17	14:00	Cloudy	72.0	73.1	69.4		72.0 Measured \leq Baseline			
12-May-17	13:50	Cloudy	73.4	74.6	68.9	72.0	67.8			
18-May-17	14:10	Cloudy	72.5	74.3	70.0	12.0	62.9			
23-May-17	15:40	Sunny	73.6	75.1	69.2		68.5			

Location N7 - V	/illage House	e in Shek Wui	Wai

					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise L	_evel	Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
5-May-17	11:15	Cloudy	73.4	74.1	70.2		70.1
12-May-17	11:15	Cloudy	73.6	75.0	67.0	70.7	70.5
18-May-17	9:00	Cloudy	74.2	76.1	70.5	70.7	71.6
23-May-17	9:00	Sunny	73.5	75.2	68.9		70.3





APPENDIX F SUMMARY OF EXCEEDANCE

Appendix F – Summary of Exceedance

Exceedance Report for Contract No. YL/2015/01 – Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

(A) Exceedance Report for Construction Noise (NIL in the reporting month)

APPENDIX G SITE AUDIT SUMMARY

Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Checklist Reference Number	170505	
Date	5 May 2017 (Friday)	
Time	09:30-12:30	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
170505-F04 170505-F07	 B. Water Quality Wheel washing bays in Portion A, C and K should be maintained more frequently to remove sand and silty in the water. Exposed muddy slope surfaces in Portion A and C should be covered by 	B 10iii & iv B 5
170505-F03	 well-maintained tarpaulins to prevent muddy and silty slides. C. Air Quality Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression. 	C 5
e	 D. Construction Noise Impact No environmental deficiency was identified during site inspection. 	
170505-001 170505-002 170505-F05 170505-F06	 E. Waste / Chemical Management Oil stains in Portion E should be properly removed as chemical waste. General refuse skips in Portion K should be maintained more frequently. Drip trays should be provided for chemical containers in Portion A, C, E, K and Works Area 3 to prevent leakage. Rubbish bins or waste collectors should be provided in Portion C for proper disposal and 	E 8 E 1 i E 8 E 1 i i
	 storage of solid waste. <i>F. Ecology and Fisheries</i> No environmental deficiency was identified during site inspection. 	
170505-F08	 G. Landscape & Visual Fencing of tree protection zones in Portion E and K should be enhanced to protect all exitsting trees. 	G 2
	<i>H. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kelvin Koo	it	5 May 2017
Checked by	Dr. Priscilla Choy	N-7	5 May 2017

Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Inspection Information	
Checklist Reference Number	170510
Date	10 May 2017 (Wednesday)
Time	09:30-12:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
170510-F03	 B. Water Quality Wheel washing bays in Portion A and K were found silty, the water should be cleared or maintained more frequently. 	B 10iii & iv
170510-F06	• Exposed muddy slope surfaces in Portion A and C should be covered by well-maintained tarpaulins to prevent muddy and silty slides.	В5
170510-F02	 C. Air Quality Stockpiles were found exposed in Portion A and Works Area 3, and they should be properly covered with impervious materials for dust suppression. 	C 5
	 D. Construction Noise Impact No environmental deficiency was identified during site inspection. 	
170510-F01 170510-F04	 <i>E. Waste / Chemical Management</i> General refuse skips in Portion K should be maintained more frequently. Drip trays should be provided for chemical containers in Portion A and E to prevent leakage. 	E 1i E 8
170510-F05	 Accumulation of general refuse was found in Portion C, proper collectors should be provided on site area for collection. 	E lii
	F. Ecology and FisheriesNo environmental deficiency was identified during site inspection.	
	G. Landscape & Visual	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kelvin Koo	AS	10 May 2017
Checked by	Dr. Priscilla Choy	NZ	10 May 2017

Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Inspection Information			
Checklist Reference Number	170516		
Date	16 May 2017 (Tuesday)		
Time	14:30-17:00		

Ref. No.	Non-Compliance	Related Item No.
E .	None identified	-

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
170516-F03	• Wheel washing bays in Portion I and K were found silty, the water should be cleared or	B 10iii 8
	maintained more frequently.	iv
170516-F06	• Exposed muddy slope surfaces in Portion A and C should be covered by well-maintained tarpaulins to prevent muddy and silty slides.	B 5
	C. Air Quality	
170516-F02	• Stockpiles were found exposed in Portion A and Works Area 3, and they should be properly covered with impervious materials for dust suppression.	С7
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
170516-F01	• General refuse in Portion K should be cleared properly. Housekeeping in Portion K should also be enhanced.	E li
170516-F04	 Drip trays should be provided for chemical containers in Portion K to prevent leakage. 	E 8
170516-F05	• Accumulation of general refuse was found in Portion C, proper collectors should be provided on site area for collection.	E 1ii
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	 No environmental deficiency was identified during site inspection. 	

	Name	Signature	Date
Recorded by	Kelvin Koo		16 May 2017
Checked by	Dr. Priscilla Choy	WI	16 May 2017

Contract No. YL/2015/01

Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	170524	
Date	24 May 2017 (Tuesday)	
Time	09:30-11:30	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	

Ref. No.	Remarks/Observations	Related Item No.
170524-O01	 B. Water Quality Sandbag bunds should be provided to prevent silty runoff flowing to public access roads at Portion E. 	B 16
170524-F05	 Wheel washing bays in Portion I and K were found silty, the water should be cleared or maintained more frequently. 	B 10iii & iv
170524-F08	 Exposed muddy slope surfaces in Portion A and C should be covered by well-maintained tarpaulins to prevent muddy and silty slides. 	B 5
170524-F04	 C. Air Quality Stockpiles were found exposed in Portion A and Works Area 3, and they should be properly covered with impervious materials for dust suppression. 	C 7
	 D. Construction Noise Impact No environmental deficiency was identified during site inspection. 	
170524-O02 170524-F03	 <i>E. Waste / Chemical Management</i> General refuse in Portion A and I should be properly disposed of to avoid accumulation. General refuse in Portion K should be cleared properly. Housekeeping in Portion K should also be enhanced. 	E li E li
170524-F06 170524-F07	 Drip trays should be provided for chemical containers in Portion K to prevent leakage. General refuse was found in Portion C, proper collectors should be provided. 	E9 E1ii
	 F. Ecology and Fisheries No environmental deficiency was identified during site inspection. 	
	G. Landscape & Visual	
12	• No environmental deficiency was identified during site inspection.	
	 H. Permits/Licences No environmental deficiency was identified during site inspection. 	
	<i>I. Others</i>No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kelvin Koo		24 May 2017
Checked by	Dr. Priscilla Choy	WI	24 May 2017

Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Checklist Reference Number	170531	
Date	31 May 2017 (Wednesday)	
Time	09:30-11:30	

Ref. No.	Non-Compliance	Related Item No.
in the second se	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
170531-001	B. Water QualityPonding water should be cleared at Portion C.	ne
170531-001 170531-F04	 Sandbag bund should be enhanced in Portion E to prevent silty runoff entering public 	B 8 B 11i
	roads.	
170531-F07	• Wheel washing bays in Portion A, I and K were found silty, the water should be cleared or maintained more frequently.	B 10iii & iv
170531-003	<i>C. Air Quality</i>Water spraying should be provided more frequently at Portion I for dust suppression.	C 5
170531-F06	• Stockpiles in Portion A should be properly covered by impervious materials to prevent dust generation.	C 7
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
170531-F05	• General refuse in Portion A, C and I should be properly disposed of to avoid accumulation. Waste collector should also be provided in Portion C for disposal of general refuse.	E li
170531-F08	• Drip trays should be provided for chemical containers in Portion I and K to prevent leakage.	E 8
	F. Ecology and Fisheries	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape & Visual	
170531-002	• Fencing of tree protection zones in WA3 should be provided to protect existing trees.	G2
	H. Permits/Licences	6
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	No environmental deficiency was identified during site inspection.	

	Name	Signature Date	
Recorded by	Kelvin Koo	×	31 May 2017
Checked by	Dr. Priscilla Choy	NZ	31 May 2017

APPENDIX H EVENT AND ACTION PLANS

Appendix H - Event and Action Plans

Event and Action Plan for Construction Noise

EVENT	ACTION				
	ET LEADER	IEC	ER	CONTRACTOR	
Action Level	1. Notify IC(E) and Contractor;	1. Review the analysed results	1. Confirm receipt of	1. Submit noise mitigation	
being	2. Carry out investigation;	submitted by the ET;	notification of failure in	proposals to IC(E);	
exceeded	3. Report the results of investigation to	2. Review the proposed remedial	writing;	2. Implement noise mitigation	
	the IC(E) and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.	
	4. Discuss with the Contractor and	advise the ER accordingly;	3. Require Contractor to		
	formulate remedial measures;	3. Supervise the implementation	propose remedial measures		
	5. Increase monitoring frequency to	of remedial measures.	for the analysed noise		
	check mitigation effectiveness.		problem;		
			4. Ensure remedial measures		
			are properly implemented.		
Limit Level	1. Notify IC(E), ER, EPD and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to	
being	Contractor;	Contractor on the potential	notification of failure in	avoid further exceedance;	
exceeded	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial	
	3. Repeat measurement to confirm	2. Review Contractor's remedial	2. Notify Contractor;	actions to IC(E) within 3 working	
	findings	actions whenever necessary to	3. Require Contractor to	days of notification;	
	4. Increase monitoring frequency;	assure their effectiveness and	propose remedial measures	3. Implement the agreed	
	5. Carry out analysis of Contractor's	advise the ER accordingly.	for the analysed noise	proposals;	
	working procedures to determine	3. Supervise the implementation	problem;	4. Resubmit proposal if problem	
	possible mitigation to be implemented;	of remedial measures	4. Ensure remedial measures	still not under control;	
	6. Inform IC(E), ER and EPD the		are properly implemented;	5. Stop the relevant portion of	
	causes & actions taken for the		5. If exceedance continues,	works as determined by the ER	
	exceedances;		consider what portion of the	until the exceedance is abated.	

Appendix H - Event and Action Plans

7. Asse	ess effectiveness of	work is responsible and	
Contrac	ctor's remedial actions and	instruct the Contractor to stop	
keep IC	C(E), EPD and ER informed of	that portion of the work until	
the rest	ults;	the exceedance is abated.	
8. If exc	ceedance stops, cease		
additior	nal monitoring		

APPENDIX I ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Construction	Air Quality	·	
S.3.6.2	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	٨
S.3.6.2	S.3.2.3	• The works area for site clearance shall be sprayed with water before, during and after the operation so as to maintain the entire surface wet	*
S.3.6.2	S.3.2.3	• Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/ loading	٨
S.3.6.2	S.3.2.3	• Immediately before leaving a construction site, all vehicles shall be washed to remove any dusty materials from the bodies and wheels. However, all spraying of materials and surfaces should avoid excessive water usage	^
S.3.6.2	S.3.2.3	• Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle	٨
S.3.6.2	S.3.2.3	• Travelling speeds should be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks	٨
S.3.6.2	S.3.2.3	• Erection of hoarding of not less than 2.4 m high from ground level along the site boundary, where appropriate	٨
S.3.6.2	S.3.2.3	• Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides	*

Appendix I - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.3.6.2	S.3.2.3	• All dusty materials shall be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet	^
Construction	Noise Impact		
\$5.5.11	S4.2.17 (Stage 1 only)	In order to prevent potential cumulative construction noise impacts to NSRs at Mai Po San Tsuen and Palm Springs, the works at the cycle track section (near CH- MP5+100m) are recommended to be scheduled to avoid works at the areas near Castle Peak Road of the Proposed Comprehensive Development at Wo Shang Wai (CDWSW) project if the works site of the CDWSW project is less than 300 m away from Castle Peak Road.	N/A
S.5.5.14	S.4.2.2 (Stage 1 only)	The contractor shall liaise with the Yuen Long and Kam Tin Sewerage and Sewage Disposal Stage 2 (YLKTSSD2) and North West New Territories Salt Water Supply (NWNTSWS) works contractors so as to avoid undertaking works concurrently with the works when they are in the close proximity as far as practicable. As a conservative approach, works for the cycle track shall be carried out when the works from the other projects are over 300 m away. The requirements shall be included in the works contracts.	N/A
N/A	N/A (Stage 2 only)	The contractor shall liaise with Yuen Long and Kam Tin Sewerage and Sewage Disposal (YLKSSD), Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT), Drainage Improvement at Northern NT - Package A – Drainage Improvement Works in San Tin (Remaining Works) - Investigation, North East New Territories New Development Areas Planning and Engineering Study (Investigation) (NENTNDA) and the Proposed Residential cum Passive Recreational Development within "Recreation" ("REC") zone and "Residential (Group C)" Zone at Various Lots in DD 104, Yuen Long, N.T. (RCPRD) contractors so as to avoid undertaking works concurrently with their works (refer to S. 4.2.2 of the EM&A Manual for Stage 2 Works).	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Table 5-7	S.4.2.19	Use of quiet plant (PME):	^
		- mini excavator	
		- mobile crane	
		- dump truck	
		- hand-held electric circular saw	
		- concrete lorry mixer	
		- lorry	
		- vibratory poker	
		- asphalt paver	
		- crane mounted auger	
		- road roller	
		- road ripper, excavator mounted	
S.5.6.2	S.4.2.19	Noise barrier in the form of site hoarding shall be used for the following PMEs	^
Table 5-8		where practicable:	
		- mini excavator	
		- mobile crane	
		- dump truck	
		- hand-held electric circular saw	
		- bar bender	
		- vibrating hammer	
		- generator	
		- concrete lorry mixer	
		- lorry	
		- vibratory poker	
		- asphalt paver	
		- compactor	
		- road roller	
		- crane mounted auger	

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		- grout mixer	
		- grout pump	
		- drill	
		- road ripper, excavator mounted	
S.5.6.2	S.4.2.19	Noise enclosure shall be used for the following PMEs where practicable:	N/A(1)
		- air compressor	
		- hand-held breaker	
S.5.6.2	S.4.2.19	The barrier / enclosure material's surface mass shall be in excess of 7 kg/m ² .	^
S.5.6.6	S.4.2.19	Use of alternative quieter plant such as road ripper, excavator mounted instead of	٨
		handheld breaker during levelling/excavation works.	
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to	^
		Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction	
		Industry) published by EPD	
S.5.6.8	S.4.2.19	The Contractor shall observe and comply with the statutory and non-statutory	^
		requirements and guidelines	
S.5.6.8	S.4.2.19	Before commencing any work, the Contractor shall submit to the project Engineer	^
		for approval the method of working, equipment and noise mitigation measures	
		intended to be used at the site	
S.5.6.8	S.4.2.19	The Contractor shall devise and execute working methods to minimize the noise	^
		impact on the surrounding sensitive uses, and provide experienced personnel with	
		suitable training to ensure that those methods are implemented	
S.5.6.8	S.4.2.19	Noisy equipment and noisy activities should be located as far away from the NSRs as	^
		is practical	
S.5.6.8	S.4.2.19	Unused equipment should be turned off. PME should be kept to a minimum and the	^
		parallel use of noisy equipment / machinery should be avoided	
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	^
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise	N/A
		barriers, where practicable	

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.5.6.8	S.4.2.19	The Contractor shall liaise with the schools that are located near the works sites regarding their examination period and schedule the noisy works to avoid the examination period as far as possible	^
Construction	Water Quality		
S.6.6.1	S.5.2.4	Mitigation measures should be implemented to prevent the uncontrolled discharge of wastewater from the construction site in accordance with Practice Note for Professional Persons ProPECC PN1/94 - Construction Site Drainage	^
S.6.6.1	S.5.2.4	Surface run-off from the construction sites will be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps and sediment settling basins. This is important for works immediately along the Kam Tin River, Ngau Tam Mei Main Drainage Channel, River Beas and Shek Sheung River	^
S.6.6.1	S.5.2.4	Channels, earth bunds or sand bag barriers will be provided on-site to properly direct stormwater to the above-mentioned facilities	٨
S.6.6.1	S.5.2.4	Existing silt removal facilities, channels and manholes along roads and pedestrian walkways will be maintained and the deposited silt and grit will be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times	^
S.6.6.1	S.5.2.4	Other manholes (including any newly constructed ones) will be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system	^
S.6.6.1	S.5.2.4	Open stockpiles of materials on site will be avoided or where unavoidable covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system	^
S.6.6.1	S.5.2.4	Where possible, works entailing soil excavation will be minimized during the rainy season (i.e. April to September);	^
S.6.6.1	S.5.2.4	Where applicable, final earthworks surfaces/ slopes will be well compacted and	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		hydro-seeded following completion to prevent erosion	
S.6.6.1	S.5.2.4	During construction works, chemical toilets will be provided for the use of site staff. These will be provided by a licensed contractor, who will be responsible for appropriate disposal and maintenance of the effluent	^
S.6.6.1	S.5.2.4	Works adjacent to the fishponds near Mai Po San Tsuen should be avoided as far as possible during the wet season to avoid runoff into the fishponds	٨
S.6.6.1	S.5.2.4	Wastewater from site facilities (such as toilets) should be discharged to foul sewer, where available. Chemical toilets will be considered where there is no foul sewer connection. There is not expected to be a temporary canteen.	^
S.6.6.1	S.5.2.4	All site discharges within Water Control Zones must comply with the terms and conditions of a valid discharge licence issued by EPD	٨
S.6.6.1	S.5.2.4	Vehicle wheel washing facilities should be provided, where applicable, at the site exit such that mud, debris, etc. deposited onto the vehicle wheels or body can be washed off before the vehicles are leaving the site area	*
S.6.6.1	S.5.2.4	Section of the road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains	^
S.6.6.1	S.5.2.4	The project may occasionally involve the handling of fuel and generates chemical wastes. It must be ensured that all fuel tanks and chemical storage are sited on sealed areas and provided with locks	^
S.6.6.1	S.5.2.4	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent accidentally spilled oil, fuel or chemicals from reaching the receiving waters	^
S.6.6.1	S.5.2.4	Oil and grease removal facilities will be provided where appropriate, for example, in area near plant workshop/ maintenance areas	N/A
S.6.6.1	S.5.2.4	Chemical waste arising from the site should be properly stored, handled, treated and disposed of in compliance with the requirements stipulated under the Waste Disposal (Chemical Waste) (General) Regulation	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
-	S.5.2.7 (Stage 1 only)	The construction work of cycle bridge at Shek Sheung River is not recommended to be carried out during wet seasons (April to October), and the dry weather flow will be diverted to avoid entering the works area. In order to further protect the river water quality from disturbance, the construction work especially excavation works, will be surrounded by cofferdams to ensure the works will be carried out in a dry condition to prevent water pollution to the river.	^
N/A	S.5.2.4 (Stage 2 only)	Stream decking is recommended to be carried out during dry weather condition. To prevent disturbance to the river water quality, measures will be taken to ensure the works to be carry out in a dry condition to prevent water pollution to the river, such as sandbag barriers.	٨
N/A	S.5.2.6 (Stage 2 only)	Based on the current available information, the tentative programmes of some construction works for the Agreement No. CE 57/2011 (DS) Drainage Improvement at Northern NT - Package A Drainage Improvement Works in San Tin (Remaining Works) - Investigation (DIST) and the Construction of Cycle Tracks and the associated Supporting Facilities at Nam Sang Wai, Yuen Long (NSWCT) projects may overlap with Stage 2 cycle track construction works. It is recommended that the Contractor should liaise with the project contractor(s) of the DIST and the NSWCT projects to schedule the construction works and allow programme phrasing to avoid major concurrent activities to be undertaken simultaneously in the vicinity.	^
Construction	Waste Manageme	ent	
S.7.4.1	S.6.2.1 – S.6.2.4	An on-site environmental co-ordinator employed by the Contractor should be identified at the outset of the works. Prior to commencement of Project works, the co-ordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the ER's approval. The WMP shall include monthly and yearly Waste Flow Tables ("WFT") that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated;	A
S.7.4.1	S.6.2.6	Given the potential for secondary environmental impacts (dust, noise, water quality	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and visual impacts), mitigation measures are required to ensure proper handling, storage, transportation and disposal of materials at the outset and throughout the construction phase of the project	
S.7.4.1	S.6.2.6	• The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site	٨
S.7.4.1	S.6.2.6	• Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation	^
S.7.4.1	S.6.2.6	• All waste materials shall be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation (from site clearance)	٨
S.7.4.1	S.6.2.6	 The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence 	Λ
S.7.4.1	S.6.2.6	 In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 "Trip Ticket System for Disposal of Construction and Demolition Material". 	Λ

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	 Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD; 	*
S.7.4.1	S.6.2.6	 A sufficient number of covered bins shall be provided on site for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the issue of ETWB Technical Circular (Works) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the Contractor is required to maintain a clean and hygienic site throughout the project works; 	*
S.7.4.1	S.6.2.6	• All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and	٨
S.7.4.1	S.6.2.6	• Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	٨
S.7.4.1	S.6.2.6	• The Contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of project construction.	٨
Land Contam	lination		
S.8.7.2 – S.8.7.3	S.7.2.2	Preparation of Contamination Assessment Plan (CAP), which should be submitted to EPD for endorsement, prior to investigation.	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		Site investigation and sampling works in accordance with the approved CAP. If contamination is identified, Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) shall be prepared and submitted for EPD's approval.	
S.8.7.5	S.7.3.1	 The following control measures should be implemented when handling identified contaminated materials: General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection; Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used; Site staff and workers shall be given adequate training and instructions specific to the potential hazards, their health and safety responsibilities and safe working practice including basic personal hygiene; Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants. 	N/A
S.8.7.5	S.7.3.1	 <u>Management of Contaminated Soils</u> Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers; The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site; All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area; Any vehicles transporting the material shall be suitably covered to limit potential dust emissions; Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of 	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
Ecological & 1	Fisheries Impact		
S.9.11.4	S.8.2.2	Prior to tree felling, survey inspections should be made for their suitability for roosting bats. Once these trees have been highlighted, then appropriate checks of each tree for bats should be made prior to removal as a precautionary measure.	٨
S.9.11.7	S.8.2.3 (Stage 1 only)	<i>In situ</i> compensation planting at the Information Kiosk and R9 should occur to provide continuing function of the bamboo and plantation (see Figure 8-1 of EM&A Manual for Stage 1 Works (Year 2015)). It is recommended that the Information Kiosk and Resting Station R9 should be designed sympathetically to the natural surroundings. Compensation planting along the Sheung Yue River and Shek Sheung River including at R9 and Information Kiosk could be implemented as appropriate.	N/A
S.9.11.17 – S.9.11.19	S.8.2.4 (Stage 1) S.8.2.3 (Stage 2)	For the Kam Tin section and the Long Valley section of the Project, construction works shall not be carried out during the wet season (April to October) which is considered to have no significant impact to wildlife and to avoid the breeding season of Greater Painted-snipes at Long Valley. This is also to prevent any site run-off to adjacent water channels and fishponds including those fishponds along San Tin Tsuen Road.	٨
S.9.11.23	S.8.2.4 (Stage 2 only)	Construction of the section in the vicinity of Mai Po Village SSSI shall be undertaken beyond the recognised breeding seasons for ardeids in Hong Kong to prevent any potential disturbance to the nesting birds, i.e., from September to February.	٨
-	S.8.2.5 (Stage 1 only)	In order to avoid any adverse impact to the healthiness of the bamboo groove from dust-coating on leave next to the R9 and hence affect the breeding habitat of the very rare Dark Brown Ace, a dust barrier should be installed between the bamboo and the construct site.	N/A
-	S.8.2.6 (Stage 1 only)	For the lower Shek Sheung River, construction works should be scheduled in dry season to minimize the disturbance to the foraging ardeids and the Quiet PME shall	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		be implemented practicable to minimize the noise disturbance to the foraging ardeids.	
S.10.5.4	S.8.2.7 (Stage 1) S.8.2.5 (Stage 2)	To prevent any negative impact to water quality as a result of site run-off, good site practice must be employed at all times, particularly in the areas close to fishponds. Practice Note for Professional Persons ProPECC PN1/94 – Construction Site Drainage shall be implemented.	٨
S.10.5.4	(Stage 2) S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Along Pok Wai South Road, once the final construction sequencing is known, liaison with local residents and aquaculturists should be implemented in order to minimise temporary road blockages and to identify the best timing for works along this area.	N/A
S.10.5.3	S.8.2.9 (Stage 1) S.8.2.7 (Stage 2)	During wet seasons, surface run-off from the construction sites will need to be directed into storm drains via adequately designed wastewater treatment facilities such as sand traps, silt traps, oil interceptors and sediment settling basins. Works adjacent to the fishponds near NTMDC inside the Wetland Conservation Area (WCA) and Mai Po San Tsuen should be avoided, as far as practicable, during the wet season to avoid runoff into the fishponds.	٨
-	S.8.2.10 (Stage 1 only)	The use of signage at the Resting Stations to indicate that wildlife may be present and that noise levels and activities should be kept to a minimum could be implemented. This may help to reduce any potential disturbance to wildlife from human activity. At Long Valley, to mitigate against potential indirect human disturbance to Greater Painted-snipe, planting could be undertaken as appropriate along the proposed cycle track at meander 8 to act as screening.	N/A
S.9.11.27	S.8.2.11 (Stage 1) S.8.2.9 (Stage 2)	 The following good work practices are recommended: Avoid soil storage against trees; Fence off any potentially ecologically sensitive areas; Delineation of works area to prevent encroachment onto adjacent habitats; Reinstatement of habitat after works; No on-site burning of waste; 	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		 Waste and refuse in appropriate receptacles; Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible; Regular ecological checks; and Silt/ Sediment/ Oil traps for drainage to prevent site run-off 	
Cultural Heri	tage Impact		
S.11.5.1	S.9.2.1	Care should be taken during the construction stage to report any signs of possible discovery of artefacts.	N/A
Landscape an	d Visual		
Detailed Desig	n Phase		
Table 12-11	CP1	A detailed tree survey to be carried out by the IDC Consultant during the detailed design stage. The recommendations of the preliminary tree survey shall be reviewed and confirmed during the detailed survey. Should tree felling be required, tree felling application is required in accordance with DEVB Technical Circular (Works) No. 10/2013 Tree Preservation	^
S.12.9.3	CP6	It has been agreed that the proposed landscape areas under DSD's 4215DS project which falls within the cycle track works area will be implemented by Project proponent of this Project in form of roadside amenity areas after completion of the cycle track. During the detailed design, the works programme of this Project shall be coordinated with the above-mentioned DSD project in order to avoid abortive planting works and impact on landscape resources between the interface of different public works. The proposed landscape areas under 4215DS falled within the cycle track works area shall be incorporated in the final landscape design of this Project.	^
S.12.10.1	OP1	The Design Concept Drawings and Conceptual Landscape Master Plan of cycle track and associated facilities demonstrate landscape and visual mitigation strategies and design measures including integrated design approach, amenity and compensatory	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status				
		planting proposals and treatment of retaining structure and slopes have been recommended in the EIA. More detailed landscape and compensatory planting proposals shall be developed by IDC consultants at later stage during detailed design and construction phase of this project following the completion of the detailed Tree Survey Report and approval from relevant departments at that stage					
Construction H	Phase						
Table 12-11	CP1.1	To retain trees, which have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.	^				
	CP1.2	Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	*				
	CP1.3	Prohibition of the storage of materials including fuel, the movement of construction ^ vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area.					
	CP1.4	Phased segmental root pruning for trees to be retained and transplanted over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case.	^				
	CP1.5	Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	^				
	CP1.6	The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	^				
	CP1.7	The rectification and repair of damaged vegetation following the construction phase to its original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected	N/A				
	CP1.8	All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the	٨				

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		implementation of protection measures and health monitoring throughout the	
		construction period	
	CP1.9	Detailed landscape and tree preservation proposals will be submitted to the relevant	N/A
		government departments for approval under the lease conditions and in accordance	
		with ETWB TCW No. 2/2004 and WB Technical Circular No. 14/2002.	
	CP2.0	The tree preservation works should be implemented by approved Landscape	^
		Contractors and inspected and approved on site by a qualified Landscape Architect.	
		A tree protection specification would be included within the contract documents.	
	CP2.1	Topsoil disturbed during the construction phase should be tested using a standard soil	^
		testing methodology and where it is found to be worthy of retention stored for re-use.	
	CP2.2	The soil will be stockpiled to a maximum height of 2m and will be either temporarily	^
		vegetated with hydroseeded grass during construction or covered with a waterproof	
		covering to prevent erosion.	
	CP2.3	The stockpile should be turned over on a regular basis to avoid acidification and the	^
		degradation of the organic material, and reused after completion. Alternatively, if	
		this is not practicable, it should be considered for use elsewhere, including other	
		projects.	
	CP3.1	Where appropriate to the final design the landscape of these works areas should be	N/A
		restored following the completion of the construction phase.	
	CP3.2	Construction site controls should be enforced including the storage of materials, the	^
		location and appearance of site accommodation and the careful design of site lighting	
		to prevent light spillage.	
	CP3.3	Screen the works area during the construction phase through the use of decorative	^
		hoarding along the site boundary facing adjacent VSRs	
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage	^
		of the construction phase	
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	^
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents	
	CP5.1	The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	^
	CP5.2	The implementation program should reserve enough time for advance tree transplanting preparation.	^

Remarks:	EM&A Manual for Stage 1 Works under EP-450/2013/A (App No.: VEP-478/2015)								
	EM&A Manual for Stage 2 Works under EP-501/2015 (App No.: AEP-501/2015)								
	Compliance of mitigation measure; X Non-compliance of mitigation measure								
	N/ANot Applicable at this stage; N/A(1)•Non-compliance but red contractor;								
	* Recommendation was made during site audit but improved/rectified by the contractor.								

APPENDIX J SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFIATION OF SUCCESSFUL PROSECUTION

Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction

Appendix J – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: May 2017

Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Log Ref.	Location	Received Date Details of Complaint/warning/summon and prosecution		Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint/warning/summon and prosecution were received in the reporting period.

APPENDIX K SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Sang Hing – Kuly Joint Venture Environmental Management Plan for Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

Name of Department: CEDD

Contract No.: YL/2015/01

	Monting Summary Waste Flow Table Iof <u>2017</u> (Tear)												
	A	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill*	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)		
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06		
Feb	0.02	-	-	-	0.02	-	0.05	0.05	0.05	-	0.01		
Mar	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02		
Apr	0.65	-	-	-	0.65	-	0.05	0.05	0.05	-	0.02		
May	0.79	-	-	-	0.79	-	0.05	0.05	0.05	-	0.01		
June	-	-	-	-	-	-	-	-	-	-	-		
Sub-total	2.65	-	-	-	2.65	0.493	0.25	0.25	0.25	-	0.12		
July	-	-	-	-	-	-	-	-	-	-	-		
Aug	-	-	-	-	-	-	-	-	-	-	-		
Sept	-	-	-	-	-	-	-	-	-	-	-		
Oct	-	-	-	-	-	-	-	-	-	-	-		
Nov	-	-	-	-	-	-	-	-	-	-	-		
Dec	-	-	-	-	-	-	-	-	-	-	-		
Total	2.65	-	-	-	2.65	0.493	0.2	0.2	0.2	-	0.11		

Monthly Summary Waste Flow Table for <u>2017</u> (Year)

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

Sang Hing – Kuly Joint Venture Environmental Management Plan for Contract No. YL/2015/01 Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*									
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
5	2	1	1	1	10	3	3	1	1	3

*Remark: Figure to be revised if necessary

Notes:

(1) The performance targets are given in ETWB Technical Circular PS Clause 6(14).

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

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ETWB Technical Circular PS Clause 5(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].