Civil Engineering and Development Department

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

Quarterly EM&A Report (Version 1.0)

May 2017 to July 2017

Approved By	Chapt
	(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.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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EXECUTIVE SUMMARY

Introduction

- This is the 3rd Quarterly 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 between 1st May 2017 and 31st July 2017.
- 2. The construction programme is presented in **Appendix A**. The construction activities undertaken in the reporting quarter were:
- Site Clearance in Portions D, F, G, H, 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 J and L;
- Tree felling in Portions D, F, G, H, J and N;
- Construction of retaining wall in Portions A, C, D, E, J and K;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portion B, C, D, E, F, G, H and N;
- Earth and drainage works in Portions A, B, J and K;
- Construction of U-channel and Subway A in Portion B; and
- Construction of rectangular channel in Portion E.

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was 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 quarter for the Project is tabulated in Table I.

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

Demonster	No. of Exceedance				
Parameter	Action Level	Limit Level	Taken		
May 2017					
Noise	0	0	N/A		
June 2017					
Noise	0	0	N/A		
July 2017					
Noise 0		0	N/A		

5. No exceedance was recorded at any air quality or noise monitoring station during the reporting period.

Environmental Licenses 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)
 - Chemical Waste Producer (No.:WPN5213-524-K3261-01)
 - Effluent Discharge Licenses
 - WT00027672-2017
 - WT00027661-2017
 - WT00027606-2017
 - WT00027510-2017
 - WT00027509-2017
 - WT00027603-2017
 - WT00027508-2017
 - WT00027582-2017
 - WT00027584-2017
 - WT00027431-2017
 - WT00027605-2017
 - WT00027607-2017
 - WT00027834-2017
 - Construction Noise Permit (CNP) (No. GW-RN0446-17)

Key Information in the Reporting Quarter

7. Summary of key information in the reporting quarter is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Quarter

Event	I	Event Details	Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	

Event	E	Event Details	Action Taken	Status Remark		
	Number Nature					
Reporting Changes	Fications of any nons & 0		N/A	N/A		
Notifications of any summons & prosecutions received			N/A	N/A		

8. Environmental monitoring works for the Project are considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations.

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 is shown in **Figure 1a-1h** 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 23rd November 2016. This is the 3rd Quarterly EM&A Report summarizing the EM&A works for the Project from 1st May 2017 – 31st July 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 key contacts of the Project are shown in **Table 1.1**.

	Rey Hojeet 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			
Cinotech	Environmental	Dr. Priscilla Choy	2151 2089	3107 1388			
Chloteen	Team	Ms. Ivy Tam	2151 2090	5107 1588			
ANewR	Independent Environmental Checker	Mr. Adi Lee	2618 2836	3007 8648			
SKJV	Contractor	Mr. Ma Kin Man	9552 1734	2890 8205			

Table 1.1Key Project Contacts

2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 The monitoring locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters designed for the routine impact monitoring were complied with the requirements stipulated under the EM&A Manual.

Monitoring Parameters and Monitoring Locations

2.2 The EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality, noise, landscape and visual due to the Project. The Project area and monitoring locations are depicted in **Figures 2a-2c**. **Appendix B** gives details of monitoring requirements.

Monitoring Methodology

2.3 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

2.4 Should the environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix C**.

Implementation Status of Environmental Mitigation Measures

2.5 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix E**. Status of required submissions under the Environmental Permit (EP) of the reporting period is presented in **Table 2.1**.

EP Condition	Submission	Submission Date
	Monthly Environmental Monitoring & Audit Report (February 2016)	15 June 2017
3.5	Monthly Environmental Monitoring & Audit Report (June 2016)	13 July 2017
	Monthly Environmental Monitoring & Audit Report (July 2017)	11 August 2017

Table 2.1 Statu	s of Required	Submissions	under EP
Labic 2.1 Statu	on neguneu	Dubinosions	unuer Er

Site Audit Summary

2.6 Site audits were carried out on a weekly basis. During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made during the reporting period are summarized in **Appendix F**.

Status of Waste Management

2.7 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix G**.

3. MONITORING RESULTS AND NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

3.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix H**.

Weather Conditions

3.2 The detail of weather conditions for each individual monitoring session was presented in monthly EM&A report.

Air Quality

3.3 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.

Construction Noise

- 3.4 All construction noise monitoring was conducted as scheduled in the reporting period. No Action and Limit Level exceedance was recorded.
- 3.5 The graphical presentations of the noise monitoring results are shown in **Appendix D**.

Landscape and Visual

3.6 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures of this project. No non-compliance of the landscape and visual impact was recorded in the reporting quarter.

Influencing Factors on the Monitoring Results

- 3.7 During the reporting period, the major noise sources identified at the designated monitoring stations are as follows:
- 3.8

Table 3.1 Major Noise Sources during the Monitoring in the Reporting

Period

Monitoring Stations	Locations	Major 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				

		Quarterly Enter	A Report – May to July 2017				
	N3	No. 159 Mai Po San Tsuen	Road traffic noise				
	N5	Block 2, Dills Corner Garden	Road traffic noise				
			Road traffic noise				
	N6 H	Home of Loving Foithfulness	Noise from activities at the				
		Home of Loving Faithfulness	premise and workshops near				
			the premise				
			Road traffic noise				
	N7 Village House in Shek Wu Wai	Villaga Hausa in Shak Wu Wai	Noise from activities at				
		village House in Shek wu wai	workshops near the village				
			house				

Comparison of EM&A results with EIA predictions

- 3.9 According to Section 12.5.1 (viii) of the EM&A Manual, the EM&A data are compared with the EIA predictions and summarized in **Annex I**.
- 3.10 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results in the reporting months at monitoring station N6 were within the range of predicted mitigated construction noise levels in the EIA Report. The results at N1, N2, N3 and N5 were lower than the range of the predicted mitigated construction noise levels in the EIA Report. No Action/Limit Level exceedance was recorded in the reporting period.

4. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

Review of the Reasons for and the Implications of Non-compliance

4.1 No Action/Limit Level exceedance was recorded at all noise monitoring stations in the reporting quarter.

Review of Monitoring Methodology and the Practicality and Effectiveness of EM&A Programme

4.2 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact periods demonstrated the environmental acceptability of the Project.

Effectiveness of Mitigation Measures

- 4.3 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 4.4 The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage.
- 4.5 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed. No non-compliance (exceedances) of Action/Limit Level was recorded.
- 4.6 No environmental complaints and environmental prosecution were received in the reporting quarter.
- 4.7 The effectiveness of environmental management is satisfactory given that the recommendations given in the site inspections performed in the reporting period (as shown in **Appendix F**) are met.

Recommendations

4.8 According to the environmental audits 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 road 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.

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.
- Drip trays 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. PMEs used in the site should be checked and maintained regularly in order to prevent accidental leakage of oil.

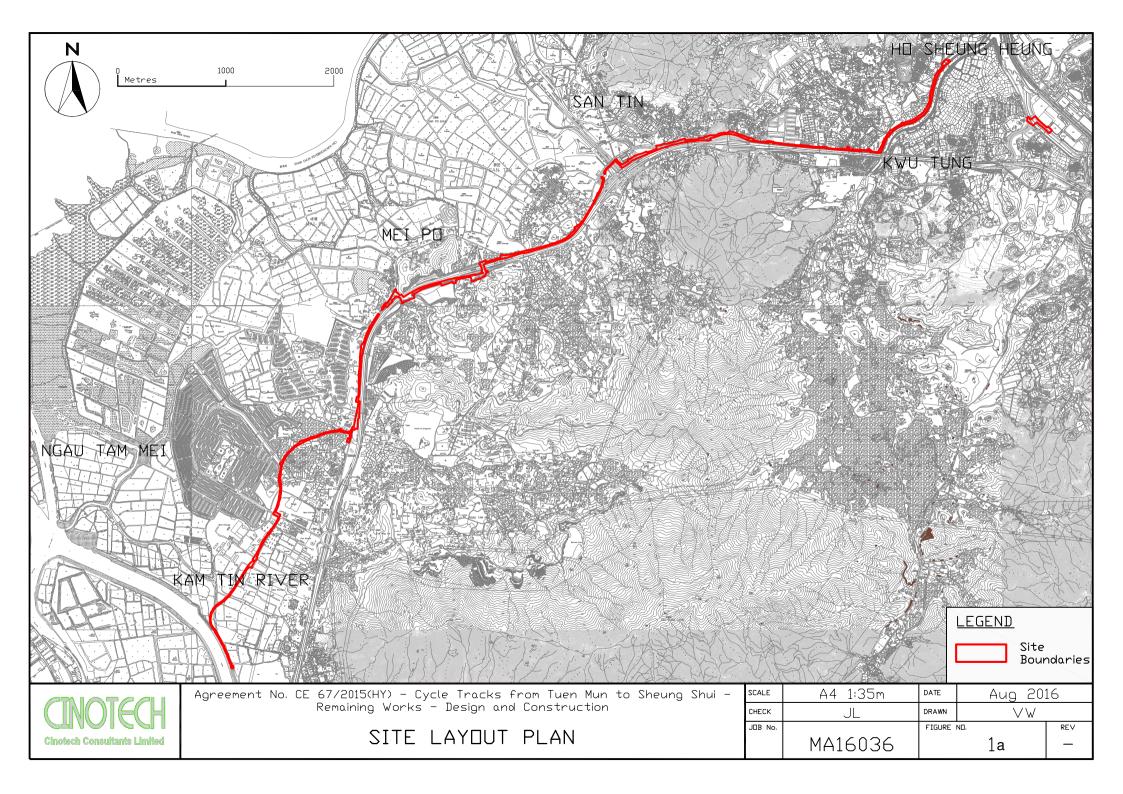
Landscape and Visual

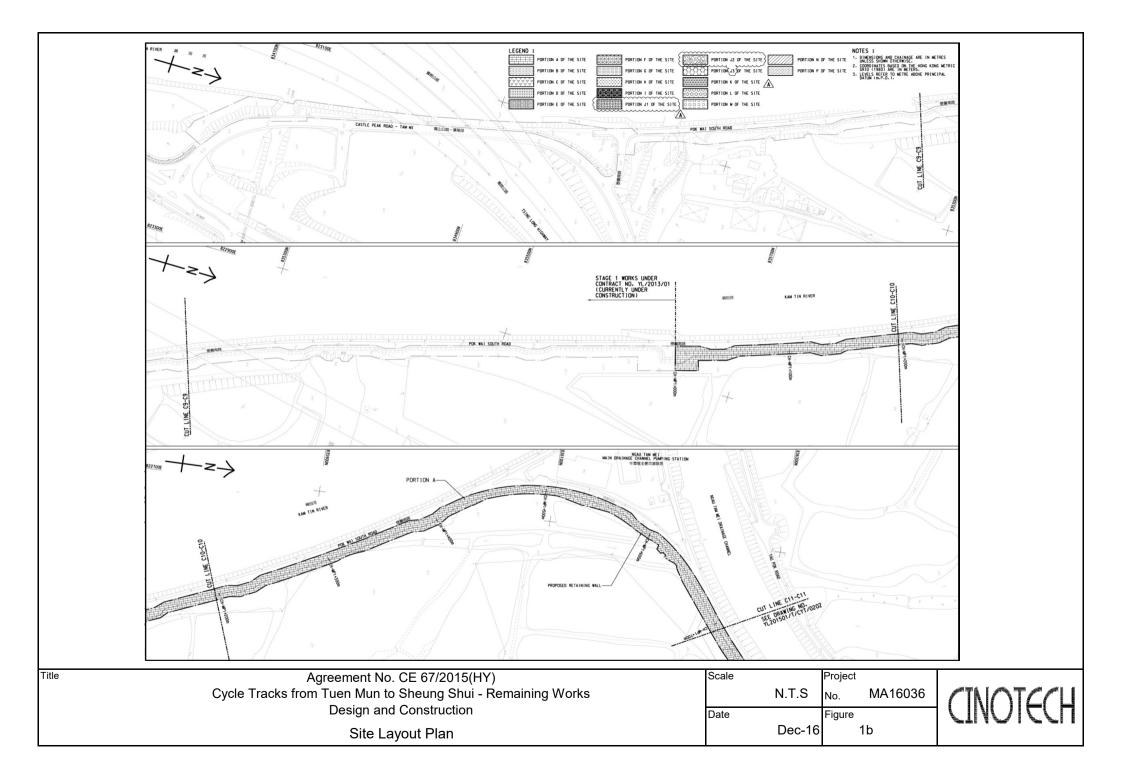
• "No-intrusion" zones should be established for all retained and existing trees to avoid damage to trees by PMEs or workers. Conspicuous signs of retained trees should be displayed on the trees.

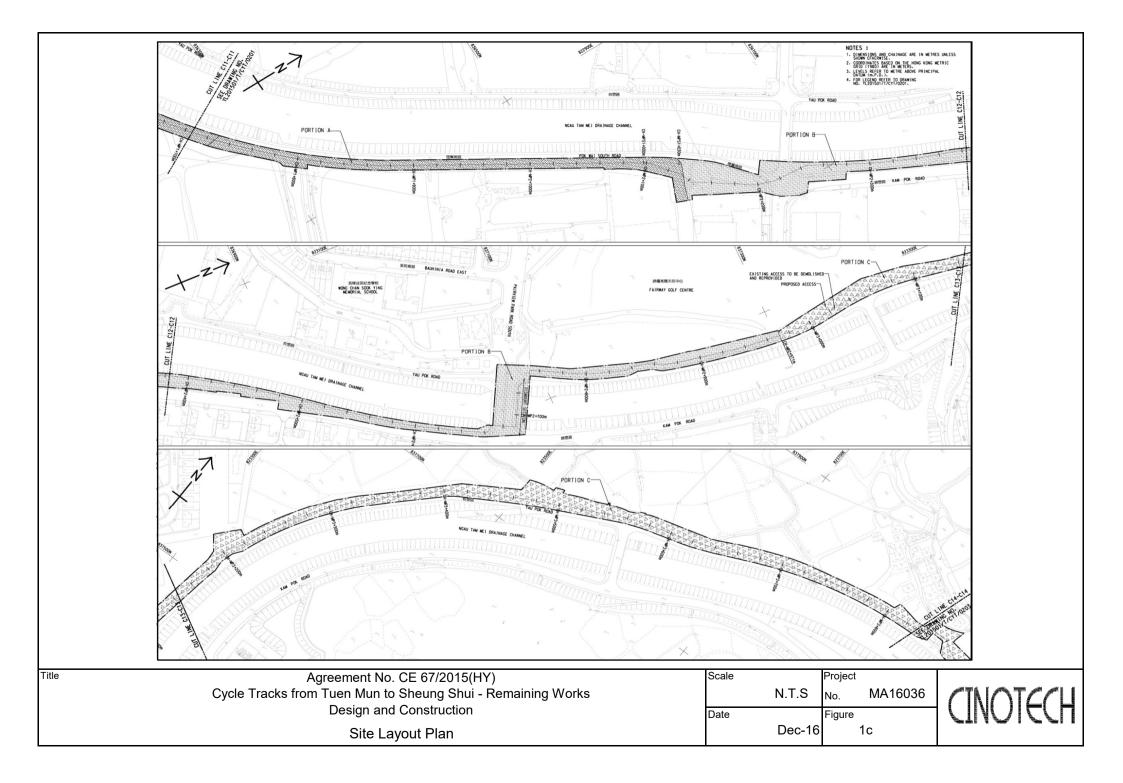
Water Quality

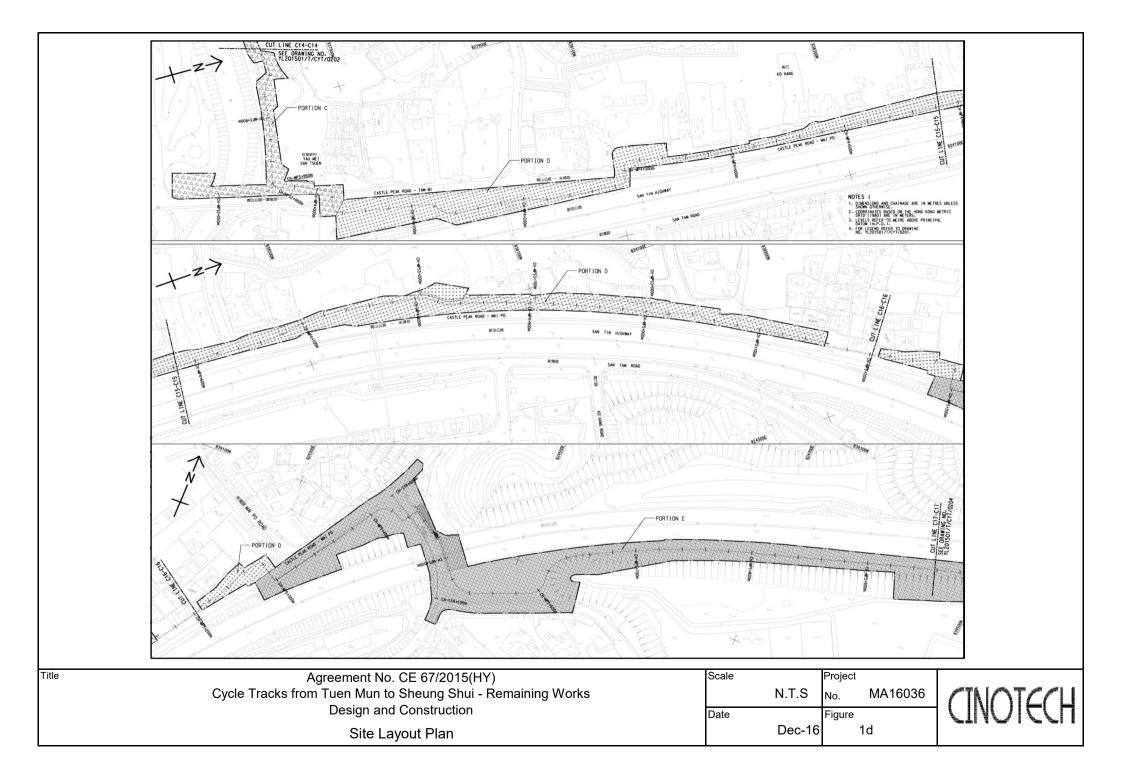
- Wheel washing bays in all portions within the site should be maintained regularly in order to ensure satisfactory water quality for effective wheel washing. Sand and silt should be removed frequently if necessary so as to further facilitate wheel washing for vehicles.
- Bunds near site boundary in all portions should be established or enhanced to prevent silty runoff or untreated wastewater entering public area.

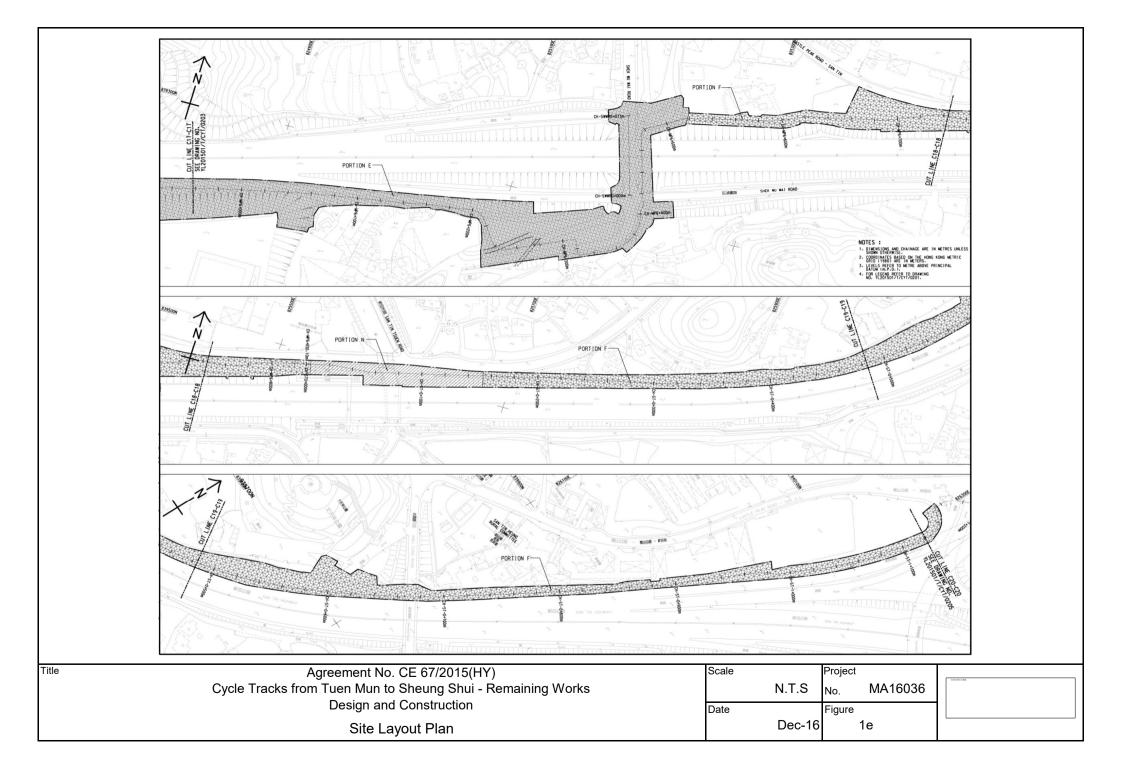
FIGURES

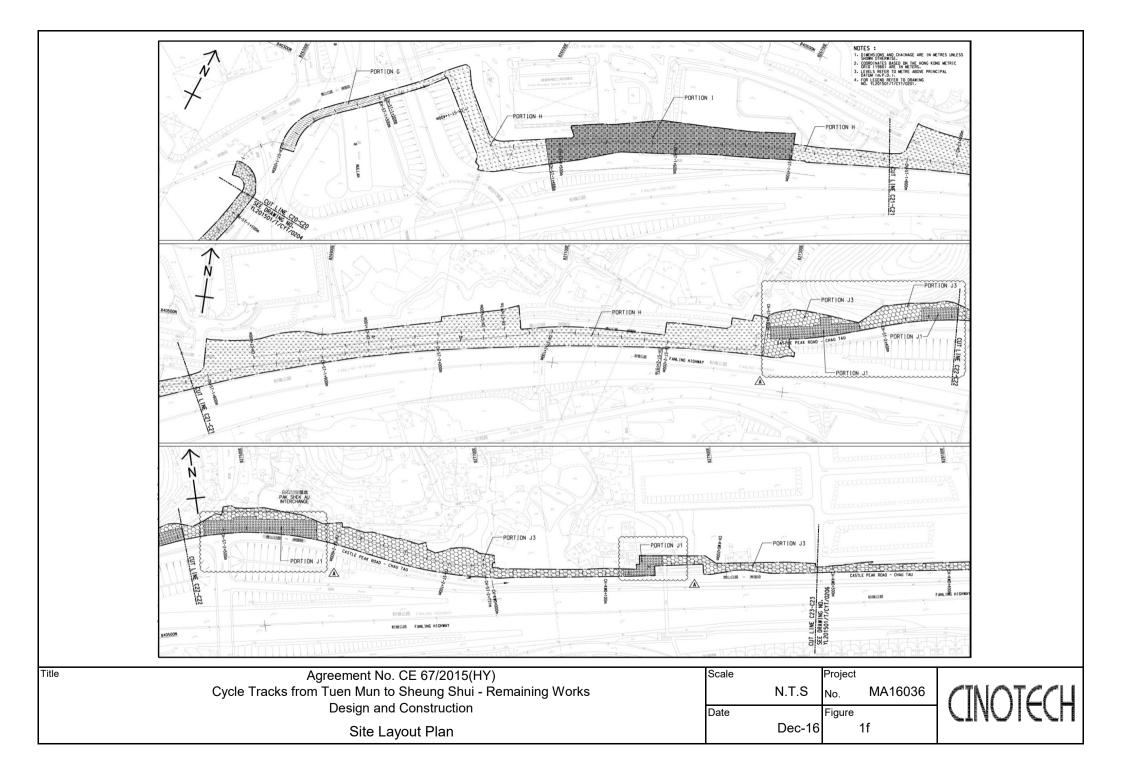


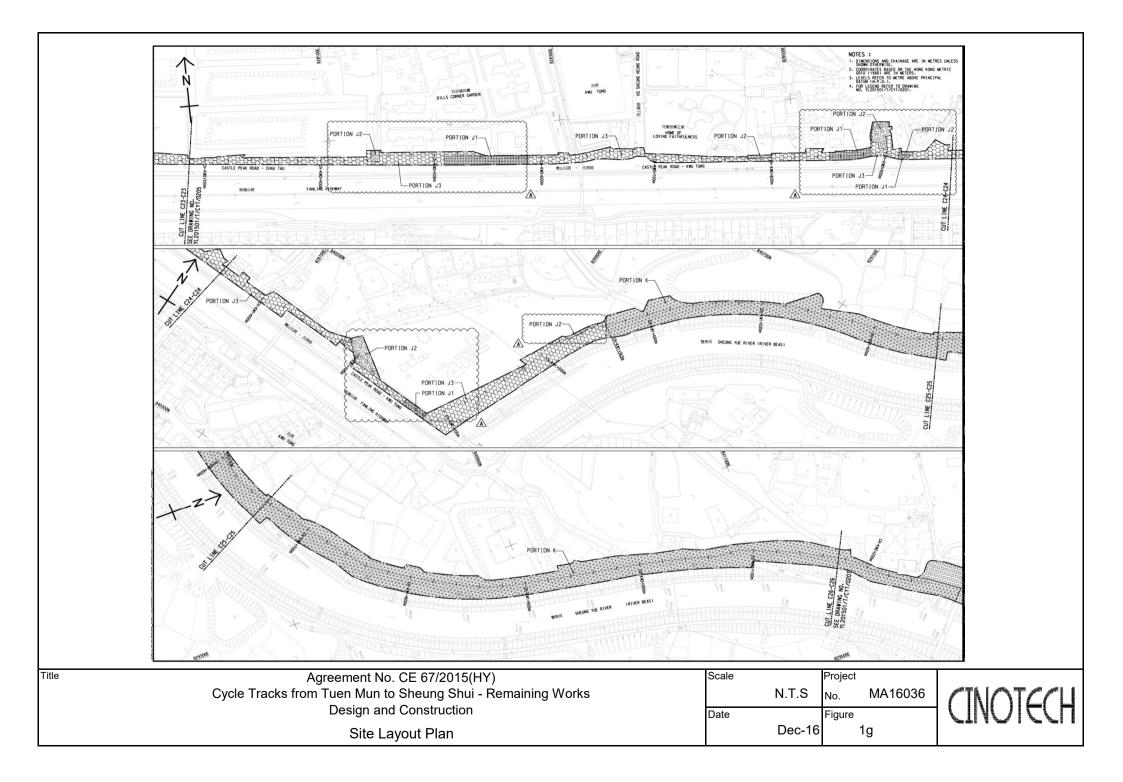


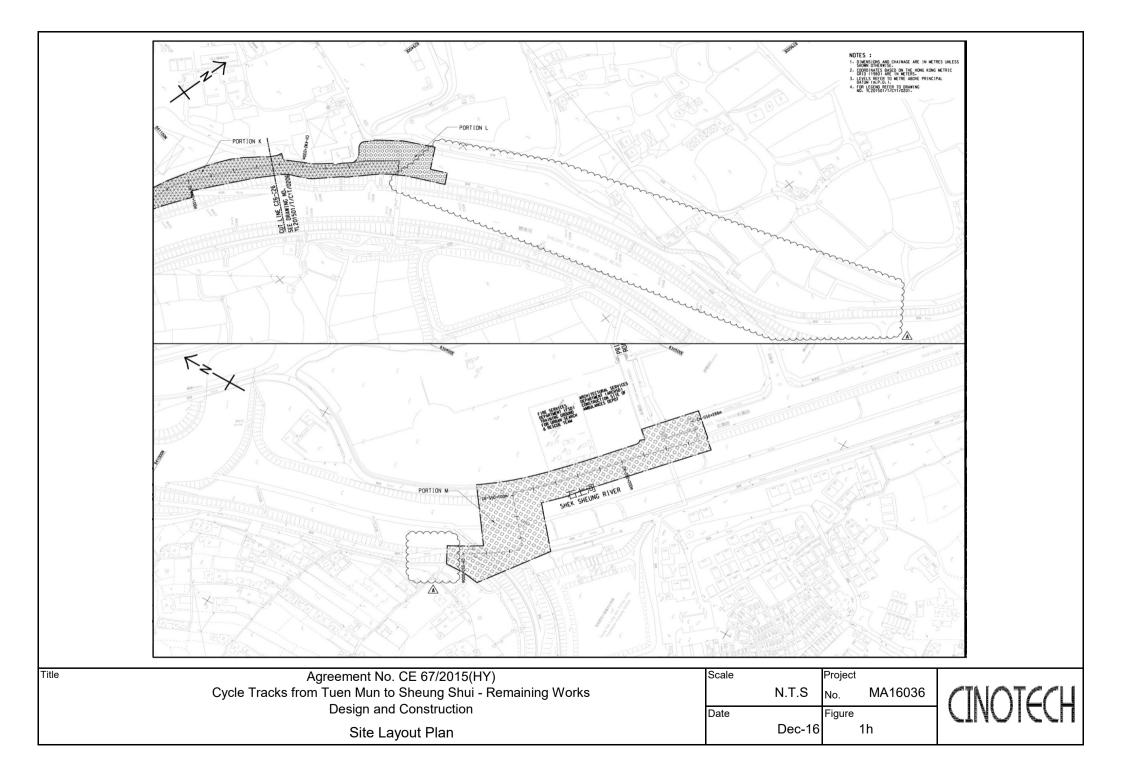


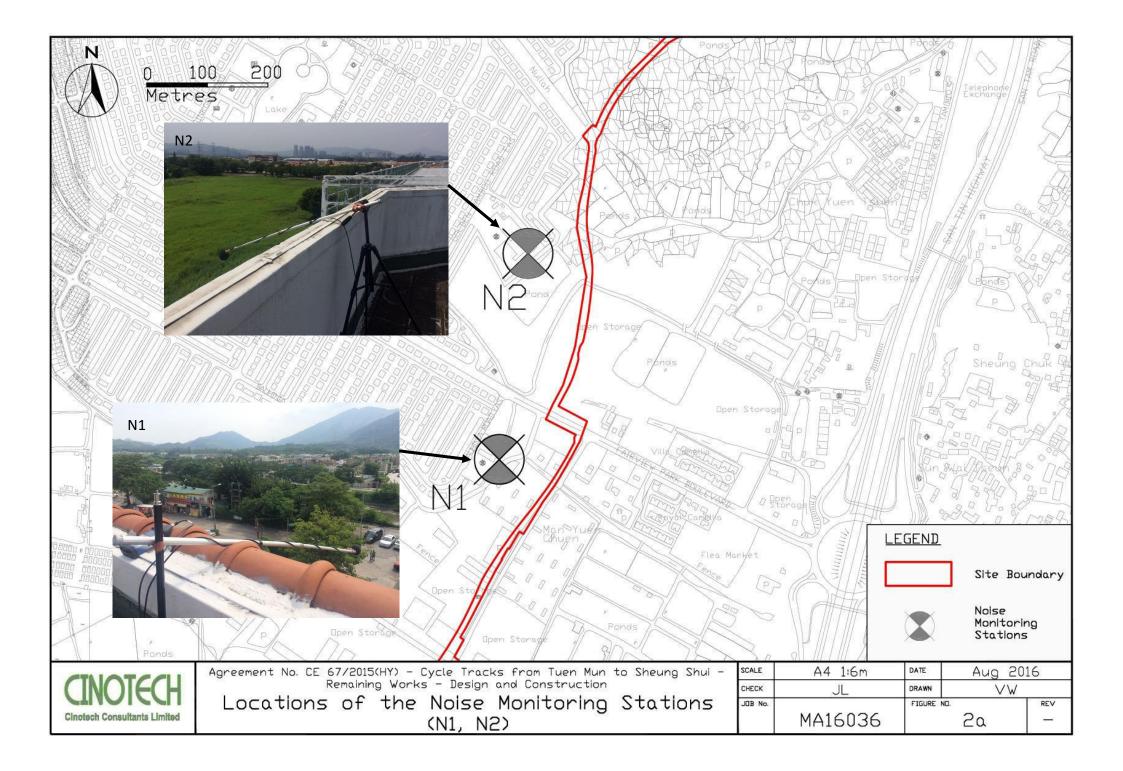


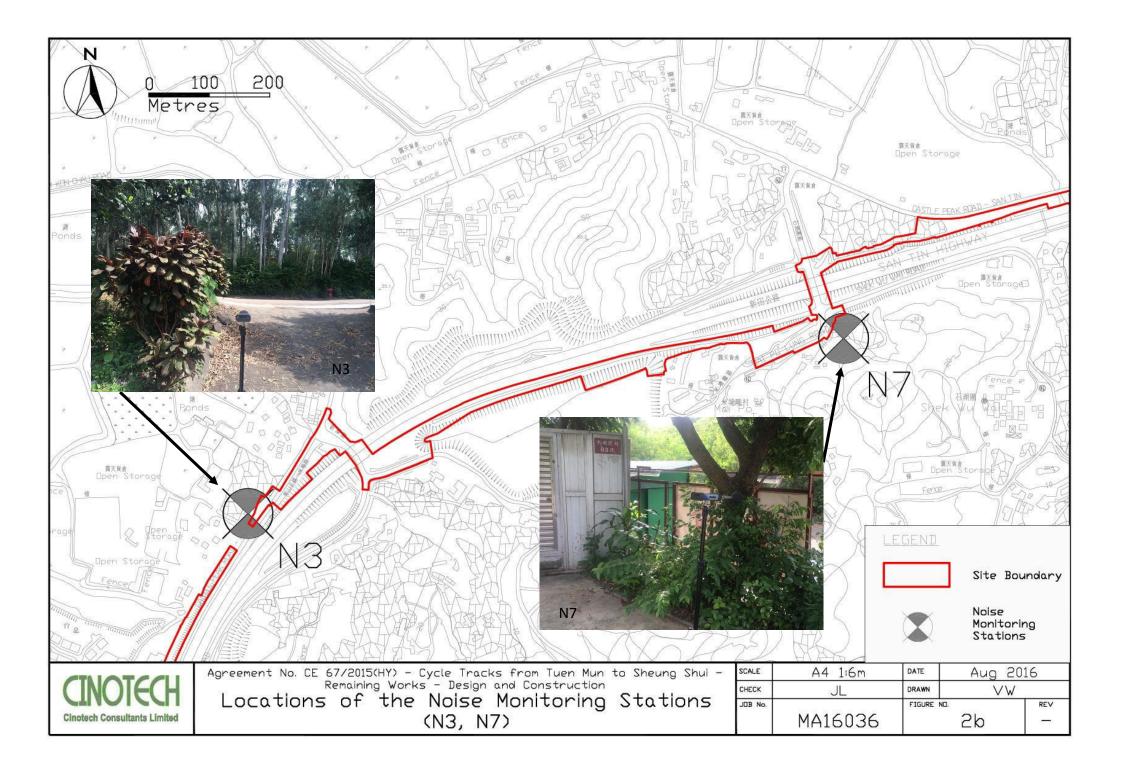


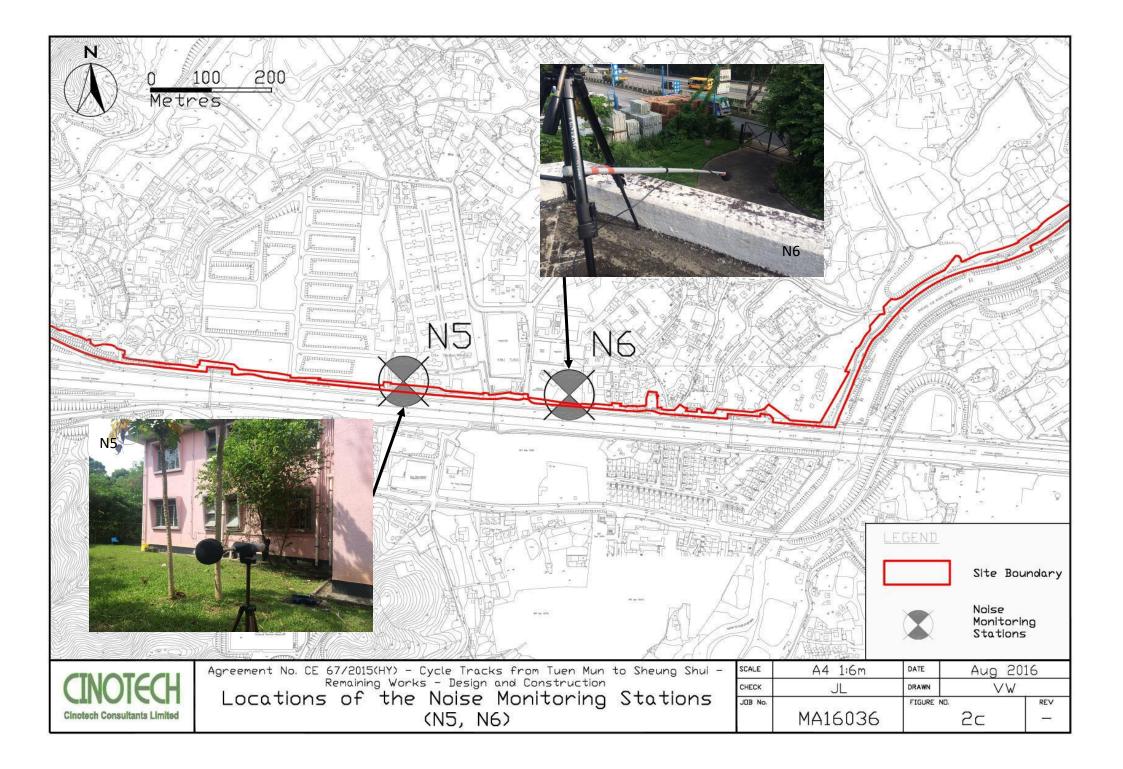






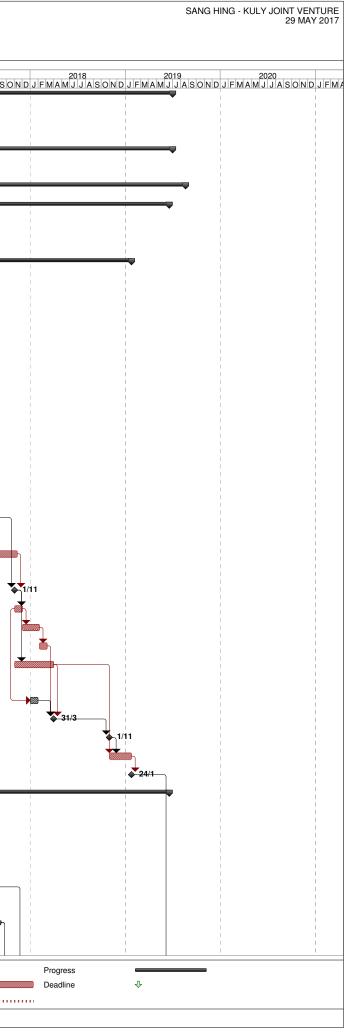






APPENDIX A CONSTRUCTION PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk	Early Start	Early Finish	Float	% Complete	Predecessors	Start	
_				Allowance (days)				/			2016 2017 MAMJJASONDJFMAMJJA
	100001	CONTRACT DURATION (ALL WORKS EXCEPT LANDSCAPING AND ESTABLISHMENT)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		Thu 30/6/16	
-	100002	COMMENCEMENT OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	0%		Thu 30/6/16	
J	100003	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		Thu 30/6/16	
			-								
-	200001	PLANNED WORKS PROGRAMME	1147 days		Thu 30/6/16	Tue 20/8/19	-50 days	29%		Thu 30/6/16	
-	210001	SECTION W1 (PORTION A,B,C & D)	1084 days		Thu 30/6/16	Tue 18/6/19	-170 days	28%		Thu 30/6/16	
	210002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16	- 30/6
-	210003	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W1	230 days		Thu 30/6/16	Tue 14/2/17	60 days	80%	2SS	Thu 30/6/16	
	210100	PORTION A - POK WAI ROAD SOUTH (MP 1+000 - MP 2+130)	879 days		Sun 28/8/16	Thu 24/1/19	-25 days	49%		Sun 28/8/16	
	210101	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	45FS+60 days	Sun 28/8/16	28/8
	210102	INITIAL SURVEY	60 days	3 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	48	Mon 29/8/16	
	210103	TREE SURVEY	70 days	3 days	Fri 28/10/16	Thu 5/1/17	0 days	100%	49	Fri 28/10/16	
	210104	TREE FELLING / TRANSPLANTING AND SITE CLEARANCE (FOR NEW DLO MEMO)	60 days	5 days	Fri 6/1/17	Mon 6/3/17	0 days	100%	50,49	Fri 6/1/17	
	210105	UTILITIES DIVERSION WORKS	60 days	0 day	Fri 6/1/17	Mon 6/3/17	169 days	0%		Fri 6/1/17	
	210106	CLP	60 days	5 days	Fri 6/1/17	Mon 6/3/17	169 days	0%	51SS	Fri 6/1/17	
	210107	PCCW	60 days	5 days	Fri 6/1/17	Mon 6/3/17	169 days	0%	53SS	Fri 6/1/17	
	210108	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	28 days	2 days	Tue 1/11/16	Mon 28/11/16	0 days	100%	49	Tue 1/11/16	
	210109	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 1/11/16	Mon 21/11/16	0 days	100%	55SS	Tue 1/11/16	
	210110	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 29/11/16	Mon 19/12/16	0 days	100%	55,56	Tue 29/11/16	
	210111	RETAINING WALL - RW 8A (60M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT	147 days	5 days	Tue 20/12/16	Mon 15/5/17	0 days	100%	57	Tue 20/12/16	
	210112	RETAINING WALL - RW 8B (40M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT	120 days	5 days	Fri 27/1/17	Fri 26/5/17	159 days	95%	56,51SS+21 days	Fri 27/1/17	
)	210113	EARTHWORKS AND DRAINAGE WORKS, UTILITIES LAYING BETWEEN MP1+000 TO MP 1+600 (EXCLUDING RETAINING WALL RW7, 7A & 7B)	210 days	10 days	Sun 16/4/17	Sat 11/11/17	-10 days	40%	58FS-25 days,51,52FS-45 days	Sun 16/4/17	×
1	210114	START DATE OF DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	60,59	Wed 1/11/17	
2	210115	RETAINING WALL - RW7 (20M)	30 days	4 days	Thu 2/11/17	Fri 1/12/17	0 days	0%	61	Thu 2/11/17	
	210116	RETAINING WALL - RW 7A (67M)	65 days	7 days	Sat 2/12/17	Sun 4/2/18	0 days	0%	62	Sat 2/12/17	
	210117	RETAINING WALL - RW 7B (20M)	30 days	3 days	Mon 5/2/18	Tue 6/3/18	0 days	0%	63	Mon 5/2/18	
	210118	EARTHWORKS AND DRAINAGE WORKS BETWEEN MP1+600 TO MP 2+100	150 days	10 days	Thu 2/11/17	Sat 31/3/18	0 days	0%	61	Thu 2/11/17	
	210119	STAIRCASE	30 days	3 days	Mon 1/1/18	Tue 30/1/18	60 days	0%	62SS+60 days	Mon 1/1/18	
	210120	END OF DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	66,65,64FS+25 days	Sat 31/3/18	
_	210121	START DATE OF DRY SEASON	0 days		Thu 1/11/18	Thu 1/11/18	0 days	0%	67	Thu 1/11/18	
	210122	ROAD WORKS	85 days	7 days	Thu 1/11/18	Thu 24/1/19	-25 days	0%	65,68	Thu 1/11/18	
	210123	COMPLETION OF PORTION A	0 days		Thu 24/1/19	Thu 24/1/19	-25 days	0%	69	Thu 24/1/19	
	210200	PORTION B (MP 2+130 - MP 2+950)	1054 days		Sat 30/7/16	Tue 18/6/19	-170 days	16%		Sat 30/7/16	
	210201	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days	Sun 27/11/16	27/11
	210202	INITIAL SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	72SS	Mon 28/11/16	
	210203	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	72SS	Mon 28/11/16	
	210204	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	45 days	4 days	Sat 7/1/17	Mon 20/2/17	0 days	100%	74,73	Sat 7/1/17	
	210205	TTM PREPARATION	150 days	days	Sat 30/7/16	Mon 26/12/16	0 days	100%	2SS+30 days	Sat 30/7/16	
	210206	TTM APPROVAL BY SUPERVISOR/PM/TMLG	82 days	2 days	Tue 27/12/16	Sat 18/3/17	0 days	100%	76	Tue 27/12/16	
	210207	UTILITIES DIVERSION WORKS	90 days	0 day	Thu 1/6/17	Tue 29/8/17	-170 days	0%		Thu 1/6/17	
	210208	CLP	90 days	5 days	Thu 1/6/17	Tue 29/8/17	-170 days	0%	75FS+100 days	Thu 1/6/17	
-		Task Summary	-		External Milestone		nactive Summary		Manual Summary Re	ollup	Finish-only
		Split Project Summary			nactive Task		Manual Task	C	Manual Summary	-	Critical
		Milestone External Tasks			nactive Milestone 🔶	D	Ouration-only		Start-only	C	Critical Spli



		Task Name	Duration	Time Risk Allowance (davs)	Early Start	Early Finish	Float	% Complete		Start	2016 MAMJJASONDJF
	210209	PCCW	90 days	5 days	Thu 1/6/17	Tue 29/8/17	-170 days	0%	79SS	Thu 1/6/17	
	210210	HCL	90 days	5 days	Thu 1/6/17	Tue 29/8/17	-170 days	0%	79SS	Thu 1/6/17	
	210211	HGC	90 days	5 days	Thu 1/6/17	Tue 29/8/17	-170 days	0%	79SS	Thu 1/6/17	
	210212	PUBLIC LIGHTING	90 days	5 days	Thu 1/6/17	Tue 29/8/17	-170 days	0%	79SS	Thu 1/6/17	
1	210213	WATER MAINS	90 days	5 days	Thu 1/6/17	Tue 29/8/17	-170 days	0%	79SS	Thu 1/6/17	
5	210214	SUBWAY A WITH PUMP ROOM (4 BAYS) CONSTRUCTION	472 days		Sat 1/4/17	Mon 16/7/18	-170 days	4%		Sat 1/4/17	
6	210215	TTA ENABLING WORKS (STAGE 1)	40 days	2 days	Sat 1/4/17	Wed 10/5/17	-59 days	38%	46,77FS+13 days,75	Sat 1/4/17	
37	210216	BAY PW8	70 days	7 days	Wed 30/8/17	Tue 7/11/17	-170 days	0%	86,78	Wed 30/8/17	
88	210217	BAY PW9	70 days	7 days	Wed 8/11/17	Tue 16/1/18	-170 days	0%	87	Wed 8/11/17	
89	210218	TTA ENABLING WORKS (STAGE 2)	21 days	3 days	Wed 17/1/18	Tue 6/2/18	-170 days	0%	88	Wed 17/1/18	
90	210219	BAY PW10 WITH PUMP HOUSE	90 days	7 days	Wed 7/2/18	Mon 7/5/18	-170 days	0%	89	Wed 7/2/18	
91	210220	BAY PW11	70 days	7 days	Tue 8/5/18	Mon 16/7/18	-170 days	0%	90	Tue 8/5/18	
92	210221	SOUTHERN RAMP (7 BAYS) CONSTRUCTION	200 days		Wed 7/2/18	Sat 25/8/18	-91 days	0%		Wed 7/2/18	
93	210222	BAY PW6&7	50 days	5 days	Wed 7/2/18	Wed 28/3/18	-91 days	0%	89	Wed 7/2/18	
4	210223	BAY PW4&5	50 days	5 days	Thu 29/3/18	Thu 17/5/18	-91 days	0%	93	Thu 29/3/18	
95	210224	BAY PW283	40 days	4 days	Fri 18/5/18	Tue 26/6/18	-91 days	0%	94	Fri 18/5/18	
96	210225	BAY PW1 AND ASSOCIATED WORKS	60 days	6 days	Wed 27/6/18	Sat 25/8/18	-91 days	0%	95	Wed 27/6/18	
97	210226	NORTHERN RAMP (5 BAYS) CONSTRUCTION	149 days		Tue 17/7/18	Wed 12/12/18	-170 days	0%		Tue 17/7/18	
98	210227	BAY PW12 & 13	50 days	5 days	Tue 17/7/18	Tue 4/9/18	-170 days	0%	91	Tue 17/7/18	
99	210228	BAY PW14 & 15	50 days	5 days	Wed 5/9/18	Wed 24/10/18	-170 days	0%	98	Wed 5/9/18	
00	210229	BAY PW16 AND ASSOCIATED WORKS	49 days	5 days	Thu 25/10/18	Wed 12/12/18	-170 days	0%	99	Thu 25/10/18	
01	210230	FNISHING WORKS AND E&M WORKS	134 days	10 days	Tue 13/11/18	Tue 26/3/19	-170 days	0%	96,91,100FS-30 days	Tue 13/11/18	
02	210231	EARTHWORKS AND DRAINAGE WORKS	384 days	30 days	Wed 30/8/17	Mon 17/9/18	20 days	0%	75,77,78	Wed 30/8/17	
03	210232	ROAD WORKS	84 days	7 days	Wed 27/3/19	Tue 18/6/19	-170 days	0%	101,102	Wed 27/3/19	
04	210233	RESTING STATION R6	90 days	7 days	Sun 26/8/18	Fri 23/11/18	37 days	0%	96	Sun 26/8/18	
05	210234	COMPLETION OF PORTION B	0 days		Tue 18/6/19	Tue 18/6/19	-170 days	0%	103,104	Tue 18/6/19	
06	210300	PORTION C (MP 2+950 - MP 4+010)	894 days		Sun 28/8/16	Fri 8/2/19	-40 days	33%		Sun 28/8/16	
07	210301	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	45FS+60 days	Sun 28/8/16	28/8
08	210302	INITIAL SURVEY	54 days	4 days	Mon 29/8/16	Fri 21/10/16	0 days	100%	107SS	Mon 29/8/16	
09	210303	TREE SURVEY	75 days	7 days	Sat 22/10/16	Wed 4/1/17	0 days	100%	108	Sat 22/10/16	
10	210304	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 5/1/17	Sun 5/3/17	0 days	100%	109,108	Thu 5/1/17	
11	210305	UTILITIES DIVERSION WORKS	60 days	0 day	Wed 14/6/17	Sat 12/8/17	-40 days	0%		Wed 14/6/17	
12	210306	CLP	60 days	5 days	Wed 14/6/17	Sat 12/8/17	-40 days	0%	110FS+100 days	Wed 14/6/17	
13	210307	PCCW	60 days	5 days	Wed 14/6/17	Sat 12/8/17	-40 days	0%	112SS	Wed 14/6/17	
14	210308	GROUND INVESTIGATION WORKS (11 NOS. BOREHOLES & TRIAL PITS)	60 days	5 days	Sat 22/10/16	Tue 20/12/16	0 days	100%	108	Sat 22/10/16	
15	210309	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	3 days	Wed 21/12/16	Tue 10/1/17	0 days	100%	114	Wed 21/12/16	
16	210310	INSTALLATION OF MONITORING MARKERS	14 days	2 days	Wed 11/1/17	Tue 24/1/17	0 days	100%	115	Wed 11/1/17	
117	210311	RETAINING WALL - RW 11A (50M)	50 days	5 days	Thu 14/6/18	Thu 2/8/18	-40 days	0%	119,118	Thu 14/6/18	
	210312	RETAINING WALL - RW 11B : BAY1 - BAY 6 (60M)	55 days	5 days	Sat 24/2/18	Thu 19/4/18	-40 days	0%	126	Sat 24/2/18	
	210313	RETAINING WALL - RW 11B : BAY 7 - BAY 12 (60M)	55 days	5 days	Fri 20/4/18	Wed 13/6/18	-40 days	0%	118	Fri 20/4/18	
	210314	RETAINING WALL - RW 11C : BAY 8 - BAY 14 (70M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT	85 days	-	Wed 25/1/17	Wed 19/4/17	0 days	100%	111SS+7 days,110FS- days,114,116,115		
21	210315	RETAINING WALL - RW 11C : BAY 1 - BAY 7, STAIRCASE S1 (70M)	60 days	5 days	Wed 5/4/17	Tue 6/6/17	85 days	90%	120	Wed 5/4/17	
22	210316	RETAINING WALL - RW 11C : BAY 15 - BAY 21, STAIRCASE S2 (70M)	70 days	7 days	Wed 7/6/17	Tue 15/8/17	22 days	90%	121	Wed 7/6/17	
	210317	RETAINING WALL - RW 12 : BAY 1 - BAY 8, STAIRCASE S3 (80M)	90 days	7 days	Thu 20/4/17	Tue 18/7/17	-40 days	0%	120	Thu 20/4/17	

Milestone

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

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External Tasks

Inactive Milestone

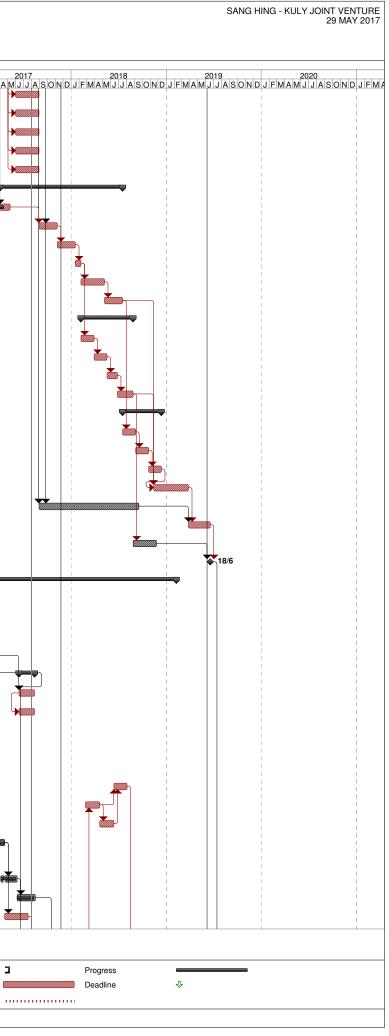
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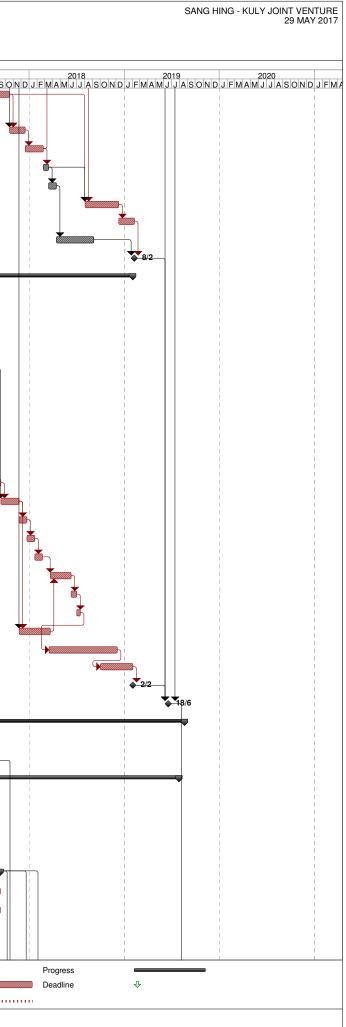
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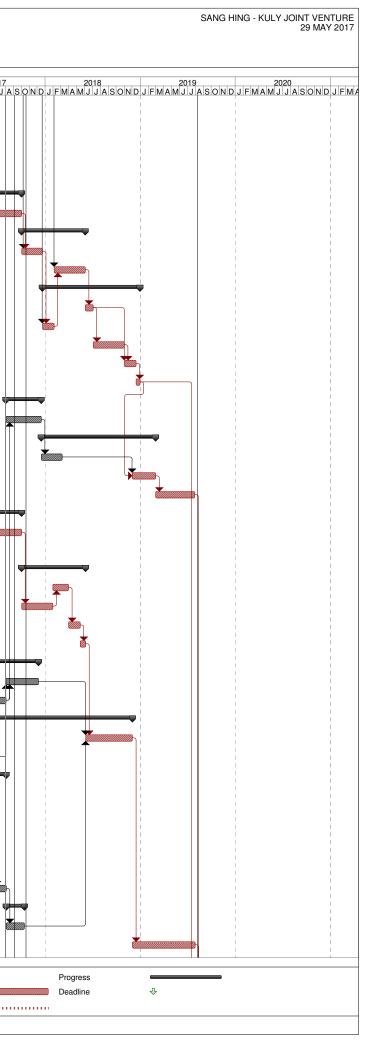
Critical Split



	Activity ID	Task Name	Duration	Time Risk Allowance	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2016 2017
24	210318	RETAINING WALL - RW 12 : BAY 9 - BAY 16, RAMP AND STAIR - CSR1 (80M)	90 days	(davs) 7 days	Wed 19/7/17	Mon 16/10/17	-40 days	0%	123,111FS-25 days	Wed 19/7/17	
24	210310		50 days	7 days	wed torrit	Mon 10/10/17	-+0 days	070	125,1111 0-25 days		
25	210319	RETAINING WALL - RW 13 (40M)	60 days	5 days	Tue 17/10/17	Fri 15/12/17	-40 days	0%	124,122	Tue 17/10/17	
	210320	RETAINING WALL - RW 14, STAIRCASE S4 (55M)	70 days	7 days	Sat 16/12/17	Fri 23/2/18	-40 days	0%	125	Sat 16/12/17	
	210321	RETAINING WALL - RW 15A (7.5M)		2 days	Sat 24/2/18	Thu 15/3/18	100 days	0%	126	Sat 24/2/18	
	210322	RAMP NEAR YAU POK ROAD	30 days	2 days	Fri 16/3/18	Sat 14/4/18	116 days	0%	127	Fri 16/3/18	
	210323	EARTHWORKS AND DRAINAGE WORKS	130 days	10 days	Fri 3/8/18	Mon 10/12/18	-40 days	0%	124,127,117	Fri 3/8/18	
	210324	ROAD WORKS	60 days	5 days	Tue 11/12/18	Fri 8/2/19	-40 days	0%	129	Tue 11/12/18	
	210325	RESTING STATION R7	144 days	10 days	Sun 15/4/18	Wed 5/9/18	116 days	0%	128	Sun 15/4/18	
	210326	COMPLETION OF PORTION C	0 days		Fri 8/2/19	Fri 8/2/19	-40 days	0%	130,131	Fri 8/2/19	
	210401	PORTION D (MP 4+010 - MP 5+280)	797 days		Sun 27/11/16	Sat 2/2/19	-34 days	14%		Sun 27/11/16	
	210402	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	45FS+151 days	Sun 27/11/16	27/11
	210403	INITIAL SURVEY	28 days	3 days	Mon 28/11/16	Sun 25/12/16	0 days	100%	134SS	Mon 28/11/16	
	210403	TREE SURVEY	40 days	3 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	134SS	Mon 28/11/16	
			-	-							
	210405	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	180 days	-	Sat 7/1/17	Wed 5/7/17	-34 days	27%	136,135	Sat 7/1/17	
	210406	UTILITIES DIVERSION WORKS	60 days	0 day	Wed 14/6/17	Sat 12/8/17	-12 days	0%	10750 00 1	Wed 14/6/17	
	210407	CLP		5 days	Wed 14/6/17	Sat 12/8/17	-12 days	0%	137FS-22 days	Wed 14/6/17	
40	210408	HCL	60 days	5 days	Wed 14/6/17	Sat 12/8/17	-12 days	0%	139SS	Wed 14/6/17	
41	210409	GROUND INVESTIGATION WORKS (3 NOS. BOREHOLE & TRIAL PITS)	21 days	2 days	Wed 15/2/17	Tue 7/3/17	0 days	100%	137SS+14 days,46	Wed 15/2/17	
42	210410	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Wed 15/2/17	Tue 7/3/17	0 days	100%	141SS	Wed 15/2/17	
43	210411	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Wed 8/3/17	Tue 28/3/17	65 days	80%	142	Wed 8/3/17	
44	210412	RETAINING WALL - RW 15B (40M)	70 days	7 days	Thu 6/7/17	Wed 13/9/17	-34 days	0%	143,142,137	Thu 6/7/17	
45	210413	RETAINING WALL - RW 15C (45M) & STAIRCASE S6	70 days	7 days	Thu 14/9/17	Wed 22/11/17	-34 days	0%	144,138FS+10 days	Thu 14/9/17	
46	210414	STREAM DECKING D1	30 days	3 days	Thu 23/11/17	Fri 22/12/17	-4 days	0%	145	Thu 23/11/17	
47	210415	STREAM DECKING D2	30 days	3 days	Sat 23/12/17	Sun 21/1/18	-4 days	0%	146	Sat 23/12/17	
48	210416	STREAM DECKING D3	30 days	3 days	Mon 22/1/18	Tue 20/2/18	-4 days	0%	147	Mon 22/1/18	
49	210417	RAMP PR1 CONSTRUCTION	80 days	7 days	Fri 23/3/18	Sun 10/6/18	-34 days	0%	148,152	Fri 23/3/18	
50	210418	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Mon 11/6/18	Sun 1/7/18	-34 days	0%	149	Mon 11/6/18	
51	210419	DEMOLITION OF EXISTING STRUCTURE	14 days	2 days	Mon 2/7/18	Sun 15/7/18	-34 days	0%	150	Mon 2/7/18	
52	210420	RW16A (80M)	120 days	10 days	Thu 23/11/17	Thu 22/3/18	-34 days	0%	76,145	Thu 23/11/17	
53	210424	EARTHWORKS AND DRAINAGE WORKS	262 days	30 days	Sun 18/3/18	Tue 4/12/18	-34 days	0%	151FS-120 days	Sun 18/3/18	
54	210425	ROAD WORKS	125 days	14 days	Mon 1/10/18	Sat 2/2/19	-34 days	0%	153FS-65 days	Mon 1/10/18	
55	210426	COMPLETION OF PORTION D	0 days		Sat 2/2/19	Sat 2/2/19	-34 days	0%	154	Sat 2/2/19	
56	210427	COMPLETION OF SECTION W1	0 days		Tue 18/6/19	Tue 18/6/19	-170 days	0%	132,155,70,105	Tue 18/6/19	
57	220001	SECTION W2 (PORTION E, F, G, H, I & N)	1147 days	days	Thu 30/6/16	Tue 20/8/19	-50 days	27%		Thu 30/6/16	
58	220002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16	<mark>}}},6</mark>
59	220003	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W2	240 days	14 days	Thu 30/6/16	Fri 24/2/17	47 days	90%	158SS	Thu 30/6/16	
60	220101	PORTION E (MP 5+280 - MP 6+530)	1125 days	days	Thu 30/6/16	Mon 29/7/19	-28 days	26%		Thu 30/6/16	
61	220102	POSSESION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	158FS+60 days	Sun 28/8/16	28/8
62	220103	INITIAL SURVEY	65 days	5 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	161SS	Mon 29/8/16	
	220104	TREE SURVEY	65 days	5 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	162	Wed 2/11/16	
	220105	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	50 days	5 days	Fri 6/1/17	Fri 24/2/17	0 days	100%	163,162	Fri 6/1/17	
	220106	UTILITIES DIVERSION WORKS (GAS MAIN, CLP)	90 days	0 day	Wed 14/6/17	Mon 11/9/17	-27 days	0%		Wed 14/6/17	
	220107	GAS MAIN	90 days	14 days	Wed 14/6/17	Mon 11/9/17	-27 days	0%	164FS+109 days	Wed 14/6/17	
	220108	CLP	90 days	14 days	Wed 14/6/17	Mon 11/9/17	-27 days	0%	166SS	Wed 14/6/17	
	220109	GROUND INVESTIGATION WORKS (9 NOS. BOREHOLE & TRIAL PITS)		4 days	Fri 20/1/17	Sun 5/3/17	0 days	100%	164SS+14 days	Fri 20/1/17	
	220109	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	-	2 days	Fri 20/1/17	Thu 9/2/17	0 days	100%	168SS	Fri 20/1/17	
			Liuays				-				
		Task Summary			xternal Milestone		conver ourmany		Manual Summary F	Rollup	Finish-only
		Split Project Summary	V	In	active Task	Ma	anual Task		Manual Summary		Critical

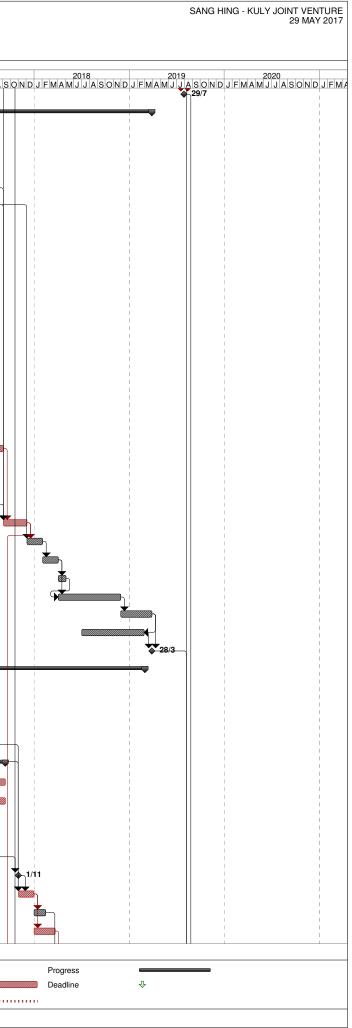


ID	Activity ID	Task Name	Duration	Time Risk Allowance (davs)	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2010 M A M J J		
70	220111	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Fri 10/2/17	Thu 2/3/17	0 days	100%	169	Fri 10/2/17			
71	220102	TTM PREPARATION	76 days	7 days	Thu 30/6/16	Tue 13/9/16	0 days	100%	2SS	Thu 30/6/16			
72	220113	TTM APPROVAL BY RSS/TMLG	90 days	7 days	Wed 14/9/16	Mon 12/12/16	0 days	100%	171	Wed 14/9/16			
73	220114	PREPARATION OF TDMP FOR BOX CULVERTS	60 days	5 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	161	Mon 29/8/16			
74	220115	APPROVAL OF TDMP BY SUPERVISOR/DSD	30 days	3 days	Fri 28/10/16	Sat 26/11/16	0 days	100%	173	Fri 28/10/16		著	
75	220116	MP 5+465 - MP 5+515	180 days		Wed 5/4/17	Sun 1/10/17	0 days	4%		Wed 5/4/17			
76	220117	RETAINING WALL - RW D02 & D04 (80M)	180 days	7 days	Wed 5/4/17	Sun 1/10/17	-27 days	4%	164,172,174,168FS+30	c Wed 5/4/17			
77	220118	MP 5+515 - MP 5+595	245 days		Mon 2/10/17	Sun 3/6/18	-27 days	0%		Mon 2/10/17			i
78	220119	RETAINING WALL - RW D05 & D06 (50M)	80 days	7 days	Mon 2/10/17	Wed 20/12/17	-27 days	0%	176,165FS+20 days	Mon 2/10/17			
79	220120	RETAINING WALL - RW D07 (70M)	120 days	10 days	Sun 4/2/18	Sun 3/6/18	-27 days	0%	182,165	Sun 4/2/18			
80	220121	MP 5+280 - MP 6+020	375 days		Thu 21/12/17	Sun 30/12/18	-27 days	0%		Thu 21/12/17			I I
81	220122	RETAINING WALL - RW D03 (11M)	30 days	3 days	Mon 4/6/18	Tue 3/7/18	-27 days	0%	179	Mon 4/6/18			
82	220123	BOX CULVERT D4	45 days	4 days	Thu 21/12/17	Sat 3/2/18	-27 days	0%	178,165	Thu 21/12/17			i
83	220124	EARTHWORKS AND DRAINAGE WORKS	120 days	5 days	Wed 4/7/18	Wed 31/10/18	-27 days	0%	181	Wed 4/7/18			
84	220125	ROAD WORKS FOR REALIGNMENT	45 days	3 days	Thu 1/11/18	Sat 15/12/18	-27 days	0%	183,181	Thu 1/11/18			
85	220126	REALIGNMENT SAN TAM ROAD	15 days	2 days	Sun 16/12/18	Sun 30/12/18	-27 days	0%	184	Sun 16/12/18			
186	220127	MP 5+900 - MP 6+020	136 days		Thu 3/8/17	Sat 16/12/17	242 days	0%		Thu 3/8/17			
187	220128	RETAINING WALL - RW D15 (113M)		10 days	Thu 3/8/17	Sat 16/12/17	242 days	0%	201	Thu 3/8/17			
188		MP 5+ 595 - MP 5+900	439 days	-	Sun 17/12/17	Thu 28/2/19	-27 days	0%		Sun 17/12/17			
189	220130	RETAINING WALL - RW D10 (50M)		7 days	Sun 17/12/17	Tue 6/3/18	242 days	0%	187	Sun 17/12/17			
	220131	RETAINING WALL - RW D08 (66M)	-	8 days	Sat 1/12/18	Thu 28/2/19	-27 days	0%	189,185FS-30 days	Sat 1/12/18			i
191	220132	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS	150 days		Fri 1/3/19	Sun 28/7/19	-27 days	0%	190	Fri 1/3/19			
	220133	MP 6+420 - MP 6+530	180 days		Wed 5/4/17	Sun 1/10/17	0 days	40%		Wed 5/4/17			i
	220134	RETAINING WALL - RW D25 & D26 (100M) INCLUDED AS-CONSTRUCTED	180 days	14 days	Wed 5/4/17	Sun 1/10/17	-28 days	40%	176SS	Wed 5/4/17			
		PMI & NCE EFFECT											
94	220135	MP 6+020 - MP 6+530	246 days		Mon 2/10/17	Mon 4/6/18	-28 days	0%		Mon 2/10/17			
95	220136	BOX CULVERT D7	60 days	3 days	Tue 30/1/18	Fri 30/3/18	-28 days	0%	196	Tue 30/1/18			
196	220137	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS	120 days	10 days	Mon 2/10/17	Mon 29/1/18	-28 days	0%	193	Mon 2/10/17			
97	220138	ROAD WORKS FOR REALIGNMENT	45 days	4 days	Sat 31/3/18	Mon 14/5/18	-28 days	0%	195	Sat 31/3/18			I.
98	220139	REALIGNMENT SHEK WU WAI ROAD	21 days	2 days	Tue 15/5/18	Mon 4/6/18	-28 days	0%	197	Tue 15/5/18			
99	220140	MP 6+020 - MP 6+160	245 days		Wed 5/4/17	Tue 5/12/17	153 days	20%		Wed 5/4/17			i
200	220141	RETAINING WALL - RW D18 (98M)	125 days	10 days	Thu 3/8/17	Tue 5/12/17	153 days	0%	201,204	Thu 3/8/17			I.
201	220142	RETAINING WALL - RW D17 (65M)	120 days	10 days	Wed 5/4/17	Wed 2/8/17	153 days	40%	193SS	Wed 5/4/17			
202	220143	MP 6+160 - MP 6+230	560 days		Sun 21/5/17	Sat 1/12/18	-28 days	0%		Sun 21/5/17			i I
203	220144	RETAINING WALL - RW D19A, B (53M)	180 days	7 days	Tue 5/6/18	Sat 1/12/18	-28 days	0%	198,213FS+26 days,200) Tue 5/6/18			
204	220145	RETAINING WALL - RW D20 (U) (22M)	50 days		Sun 21/5/17	Sun 9/7/17	177 days	0%	208FS-30 days	Sun 21/5/17			
205	220146	MP 6+230 - MP 6+330	210 days		Fri 6/1/17	Thu 3/8/17	181 days	55%		Fri 6/1/17			Ļ
206	220147	RECTANGULAR CHANNEL	150 days	10 days	Fri 6/1/17	Sun 4/6/17	0 days	100%	163	Fri 6/1/17			
207	220148	BOX CULVERT D5		4 days	Sun 5/2/17	Thu 20/4/17	177 days	60%	206SS+30 days	Sun 5/2/17			
	220149	RETAINING WALL - RW D21(U) (26M)		4 days	Mon 1/5/17	Mon 19/6/17	177 days	0%	207FS+10 days	Mon 1/5/17			
	220150	BOX CULVERT D6		4 days	Wed 15/2/17	Thu 20/4/17	181 days	69%	207SS+10 days	Wed 15/2/17			¦ L
	220151	RETAINING WALL - RW D22 (U) (26M)	45 days		Mon 1/5/17	Wed 14/6/17	181 days	0%	209FS+10 days	Mon 1/5/17			1
	220151	RETAINING WALL - RW D22 (U) (2000)	-	4 days	Thu 15/6/17	Thu 3/8/17	181 days	0%	2091 3+10 days 210	Thu 15/6/17			
	220152 220153	MP 6+372 - MP 6+410	70 days	, uuyo	Fri 4/8/17	Thu 12/10/17	181 days	0%		Fri 4/8/17			I I
			-	7 daya					211				I I
	220154	RETAINING WALL - RW D24 (44M)	-	7 days	Fri 4/8/17	Thu 12/10/17	181 days	0%	211	Fri 4/8/17			
≤14	220155	DRAINAGE WORKS, EARTHWORKS AND ROAD WORKS	240 days	iu aays	Sun 2/12/18	Mon 29/7/19	-28 days	0%	203	Sun 2/12/18			1
		Task Summary	-	Ext	ernal Milestone	In	active Summary	▽	Manual Summary Ro	llup	Finish-	only	
		Split Project Summary			ctive Task	M	lanual Task	C	Manual Summary	~	Critica	ıl	
		Milestone			ctive Milestone	-	uration-only		Start-only	C	Critica		



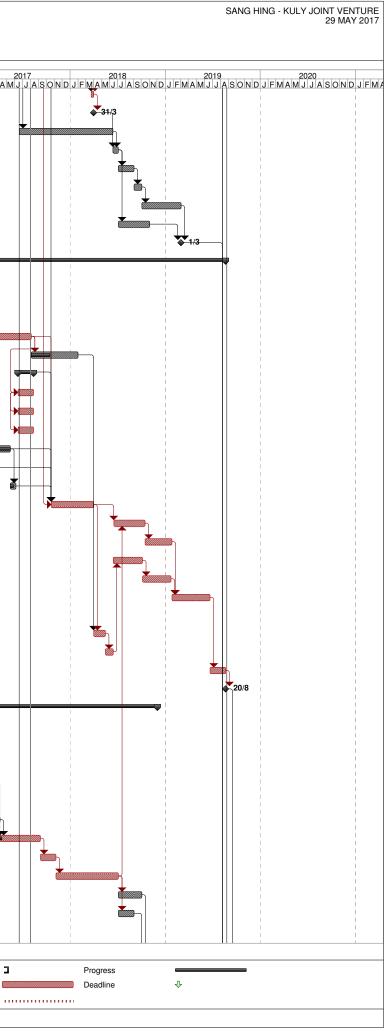
ID	Activity ID	Task Name	Duration	Time Risk Allowance	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2016		2017	7
15	220156	COMPLETION OF PORTION E	0 days	(davs)	Mon 29/7/19	Mon 29/7/19	-28 days	0%	214,191,185	Mon 29/7/19		SONDJF		
216	220201	PORTION F (MP 6+530 - MP 6+850, CH ST 0+150 - CH ST 1+150)	1002 days		Thu 30/6/16	Thu 28/3/19	95 days	16%		Thu 30/6/16	──│││			
217	220202	POSSESION OF SITE	0 days		Sun 27/11/16	Sun 27/11/16	0 days	100%	158FS+151 days	Sun 27/11/16		27/1	11	
218	220203	INITIAL SURVEY		4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	217SS	Mon 28/11/16				
219	220204	TREE SURVEY	40 days	4 days	Mon 28/11/16	Fri 6/1/17	0 days	100%	217SS	Mon 28/11/16				
220	220205	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE		5 days	Sat 7/1/17	Wed 5/7/17	16 days	10%	219,218	Sat 7/1/17				Ц
221	220206	UTILITIES DIVERSION WORKS (CLP, CATV, NTT, TOWN GAS, HKBB & TGT)	230 days	-	Mon 28/11/16	Sat 15/7/17	0 days	0%	,	Mon 28/11/16				₽
												1		
222	220207	CLP	230 days	14 days	Mon 28/11/16	Sat 15/7/17	0 days	0%	217SS	Mon 28/11/16		}		,
223	220208	CATV	230 days	14 days	Mon 28/11/16	Sat 15/7/17	0 days	0%	22255	Mon 28/11/16		•		J
224	220209	NTT	230 days	14 days	Mon 28/11/16	Sat 15/7/17	0 days	0%	22255	Mon 28/11/16		•		1
225	220210	TOWN GAS	230 days	14 days	Mon 28/11/16	Sat 15/7/17	0 days	0%	22255	Mon 28/11/16		•		1
226	220211	НКВ	230 days	14 days	Mon 28/11/16	Sat 15/7/17	0 days	0%	22255	Mon 28/11/16		•		J
227	220212	TFT	230 days	14 days	Mon 28/11/16	Sat 15/7/17	0 days	0%	22255	Mon 28/11/16				1
228	220213	INSTRUCTION FOR SITE INVESTIGATION FOR CONTAMINATED SITE	250 days		Thu 30/6/16	Mon 6/3/17	0 days	100%	2SS	Thu 30/6/16			a n	
229	220214	ARRANGEMENT OF SITE INVESTIGATION WORKS	21 days	2 days	Tue 7/3/17	Mon 27/3/17	0 days	100%	228	Tue 7/3/17		1	F	
230	220215	SITE INVESTIGATION WORKS AND TESTING	49 days	3 days	Tue 28/3/17	Mon 15/5/17	0 days	100%	229,220SS+60 days	Tue 28/3/17		<u> </u>		
231	220216	INSTRUCTION FOR REMEDIAL WORK FOR CONTAMINATED SOIL	14 days	2 days	Tue 16/5/17	Mon 29/5/17	-45 days	0%	230	Tue 16/5/17				
232	220217	ARRANGEMENT OF REMEDIAL WORKS	30 days	3 days	Tue 30/5/17	Wed 28/6/17	-45 days	0%	231	Tue 30/5/17		I.	🎽	L
233	220218	IMPLEMENTATION OF REMEMDIAL WORKS	68 days	5 days	Thu 29/6/17	Mon 4/9/17	-45 days	0%	232	Thu 29/6/17				
234	220219	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	14 days	2 days	Tue 28/3/17	Mon 10/4/17	0 days	100%	221	Tue 28/3/17		i I		
235	220220	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 28/3/17	Mon 17/4/17	0 days	100%	234SS	Tue 28/3/17				
236	220221	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 18/4/17	Mon 8/5/17	0 days	100%	234,235	Tue 18/4/17		i I		┼╢
237	220222	RW 42 (60M)	90 days	7 days	Tue 5/9/17	Sun 3/12/17	-45 days	0%	221FS+6 days,236,23	3,1 Tue 5/9/17				
238	220223	RW 43 (50M)	60 days	5 days	Mon 4/12/17	Thu 1/2/18	95 days	0%	221,237	Mon 4/12/17		i i		
239	220224	RW 44 (36M U)	60 days	5 days	Fri 2/2/18	Mon 2/4/18	95 days	0%	238	Fri 2/2/18				
240	220225	RAMP PR3 CONSTRUCTION	30 days	3 days	Tue 3/4/18	Wed 2/5/18	95 days	0%	239	Tue 3/4/18		i i		
241	220226	EARTHWORKS AND DRAINAGE WORKS	-	21 days	Tue 3/4/18	Wed 28/11/18	95 days	0%	239,240FS-30 days	Tue 3/4/18				
242 243	220227	ROAD WORKS (1.3 KM) RESTING STATION R8	120 days 240 days	10 days	Thu 29/11/18 Mon 2/7/18	Thu 28/3/19 Tue 26/2/19	95 days	0%	241 242FF-30 days	Thu 29/11/18 Mon 2/7/18		i.		
	220228	COMPLETION OF PORTION F	0 days	21 uays	Thu 28/3/19	Thu 28/3/19	125 days 95 days	0%	242.77-30 days	Thu 28/3/19		1		
	220223	PORTION G - (BRIDGE C) CH ST 1+210 - CH ST 1+310)	975 days		Thu 20/6/16	Fri 1/3/19	122 days	29%	242,243	Thu 20/6/16	_ _			
	220302	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	158	Thu 30/6/16		0/6		
	220303	INITIAL SURVEY		5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	246SS	Thu 30/6/16		a		
248	220304	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	247	Mon 29/8/16				
249	220305	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	0 days	100%	248,247	Fri 6/1/17		+		
250	220306	UTILITIES DIVERSION WORKS	90 days	0 day	Wed 14/6/17	Mon 11/9/17	0 days	0%		Wed 14/6/17		1		
251	220307	НКВ	90 days		Wed 14/6/17	Mon 11/9/17	0 days	0%	249FS+39 days	Wed 14/6/17			<u> </u>	
252	220308	TGT	90 days		Wed 14/6/17	Mon 11/9/17	0 days	0%	251SS	Wed 14/6/17		I.		
		PREPARATION OF TDMP FOR PRE-DRILLING WORKS	100 days	10 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	246SS	Thu 30/6/16				
		APPROVAL OF TDMP BY SUPERVISOR/DSD	· · · ·	2 days	Sat 8/10/16	Fri 21/10/16	0 days	100%	253	Sat 8/10/16				
	220311	PREDRILLING WORKS FOR PILES		3 days	Sat 20/5/17	Sun 18/6/17	0 days	100%	355,254	Sat 20/5/17				
	220312	STARTING DATE OF DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	255	Wed 1/11/17		1		
	220313	PRE-BORE H-PILE (8 NOS)		5 days	Wed 1/11/17	Sat 30/12/17	0 days	0%	256,249,250FS+50 da					
	220314	LOAD TEST		5 days	Sun 31/12/17	Tue 13/2/18	36 days	0%	257	Sun 31/12/17		1		
259	220315	ABUTMENT CONSTRUCTION		7 days	Sun 31/12/17	Wed 21/3/18	0 days	0%	257	Sun 31/12/17				
		Task Summary			xternal Milestone	Ina	active Summary	V	Manual Summary	Rollup	Finish-on	 1ly	3	
		Split Project Summary	-		active Task		anual Task	C	Manual Summary		Critical		_	
		Milestone		In	active Milestone	Du	ration-only		Start-only	C	Critical S	split		

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME



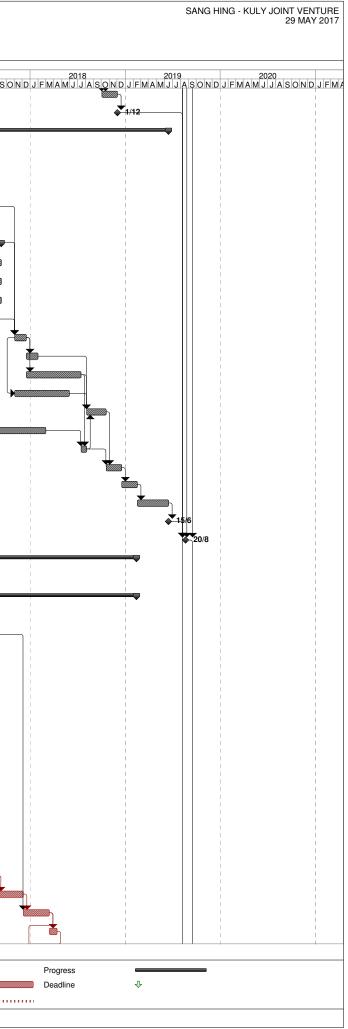
ID Activity ID	Task Name	Duration	Time Risk Allowance	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2016	2017	_
260 220316	REMOVAL OF DRAINAGE DIVERSION WORKS	10 days	(davs) 2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	259,258	Thu 22/3/18	MAMJJASONDJ		10
261 220317	END DATE OF DRY SEASON	0 days	-	Sat 31/3/18	Sat 31/3/18	0 days	0%	260	Sat 31/3/18			
262 220318	PROCURE AND DELIVERY OF BEARINGS AND MOVEMNT JOINTS		21 days	Mon 19/6/17	Wed 13/6/18	122 days	0%	255	Mon 19/6/17			
263 220319	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Thu 14/6/18	Wed 4/7/18	122 days	0%	262,261	Thu 14/6/18			
264 220320	BRIDGE DECK CONSTRUCTION	60 days	5 days	Thu 5/7/18	Sun 2/9/18	122 days	0%	263	Thu 5/7/18			
265 220321	EARTH WORKS AND DRAINAGE WORKS	30 days	2 days	Mon 3/9/18	Tue 2/10/18	122 days	0%	264	Mon 3/9/18			
266 220322	ROAD WORKS	150 days		Wed 3/10/18	Fri 1/3/19	122 days	0%	265	Wed 3/10/18			
267 220323	BRIDGE ASSOCIATED WORKS. WATERMAIN WORKS	120 days		Thu 5/7/18	Thu 1/11/18	242 days	0%	263	Thu 5/7/18			
268 220324	COMPLETION OF PORTION G	0 days	10 days	Fri 1/3/19	Fri 1/3/19	122 days	0%	267,266	Fri 1/3/19			
269 220401	PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)	1087 days		Sun 28/8/16	Tue 20/8/19	-50 days	24%	207,200	Sun 28/8/16			
270 220402	POSSESION OF SITE			Sun 28/8/16	Sun 28/8/16		100%	158FS+60 days	Sun 28/8/16	28/8		
		0 days	4			0 days				20/0		
271 220403		65 days	4 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	270SS	Mon 29/8/16			
272 220404		65 days	4 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	271	Wed 2/11/16		,	
273 220405	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	210 days	-	Fri 6/1/17	Thu 3/8/17	0 days	34%	272	Fri 6/1/17			
274 220406	APPLIED TTA APPROVAL FOR REALIGNMENT	180 days		Fri 4/8/17	Tue 30/1/18	15 days	40%	273	Fri 4/8/17			
275 220407	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	60 days	0 day	Wed 14/6/17	Sat 12/8/17	0 days	0%		Wed 14/6/17		₩₩₽	1
276 220408	НКВ	60 days	14 days	Wed 14/6/17	Sat 12/8/17	0 days	0%	273FS-51 days	Wed 14/6/17			
277 220409	TGT	60 days	14 days	Wed 14/6/17	Sat 12/8/17	0 days	0%	276SS	Wed 14/6/17			
278 220410	CLP	60 days	14 days	Wed 14/6/17	Sat 12/8/17	0 days	0%	276SS	Wed 14/6/17			
279 220411	GROUND INVESTIGATION WORKS (6 NOS. BOREHOLE & TRIAL PITS)	100 days	4 days	Sun 5/2/17	Mon 15/5/17	0 days	100%	273SS+30 days	Sun 5/2/17		━━┐┼┼┼	1
280 220412	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Sun 5/2/17	Sat 25/2/17	0 days	100%	279SS	Sun 5/2/17			7
281 220413	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 16/5/17	Mon 5/6/17	91 days	60%	279	Tue 16/5/17		ă –	-
282 220414	RW 49 (130M)	163 days	12 days	Fri 20/10/17	Sat 31/3/18	-45 days	0%	275FS+23 days,273,27	'9, Fri 20/10/17			
283 220415	RW 45A (73M)	120 days	10 days	Sun 17/6/18	Sun 14/10/18	-50 days	0%	282,301FS-18 days	Sun 17/6/18			
284 220416	RW 45B (58M)	103 days	10 days	Mon 15/10/18	Fri 25/1/19	-50 days	0%	283	Mon 15/10/18			
285 220417	DW1 & DW1A (130M)	112 days	10 days	Fri 15/6/18	Thu 4/10/18	-45 days	0%	289	Fri 15/6/18			
286 220418	DW2 (92M)	110 days	10 days	Fri 5/10/18	Tue 22/1/19	-45 days	0%	285	Fri 5/10/18			
287 220419	EARTHWORKS AND DRAINAGE WORKS	147 days	14 days	Sat 26/1/19	Fri 21/6/19	-50 days	0%	284,286FS-2 days	Sat 26/1/19			
288 220420	PART OF ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY	45 days	4 days	Sun 1/4/18	Tue 15/5/18	-45 days	0%	282,274	Sun 1/4/18			
289 220421	REALIGNMENT CARRIAGEWAY	30 days	3 days	Wed 16/5/18	Thu 14/6/18	-45 days	0%	288	Wed 16/5/18			
290 220422	ROAD WORKS	60 days	5 days	Sat 22/6/19	Tue 20/8/19	-50 days	0%	287	Sat 22/6/19			
291 220423	COMPLETION OF PORTION H	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	290	Tue 20/8/19			
292 220501	PORTION I (CH ST 1.525 - CH ST 1.70)	885 days		Thu 30/6/16	Sat 1/12/18	212 days	51%		Thu 30/6/16			-
293 220502	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	255	Thu 30/6/16	30/6		
294 220503	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	293SS	Thu 30/6/16			
295 220504	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	0 days	100%	294SS	Thu 30/6/16			
296 220505	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	2 days	Fri 6/1/17	Sat 4/2/17	0 days	100%	295,294	Fri 6/1/17		j	
297 220506	TTM PREPARATION	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS	Thu 30/6/16			
298 220507	TTM APPROVAL BY RSS/TMLG	100 days	5 days	Tue 27/12/16	Wed 5/4/17	0 days	100%	297	Tue 27/12/16			
299 220508	SUBWAY D WITH PUMP ROOM CONSTRUCTION (2BAYS BAY 9, 10)	155 days	14 days	Thu 6/4/17	Thu 7/9/17	-50 days	5%	298,296	Thu 6/4/17			
300 220509	SUBWAY D BAY 11	60 days	5 days	Fri 8/9/17	Mon 6/11/17	-50 days	0%	299	Fri 8/9/17			,
301 220510	RAMP (14 BAYS)	240 days	21 days	Tue 7/11/17	Wed 4/7/18	-50 days	0%	300	Tue 7/11/17			i
302 220511	FINISHING WORKS AND E&M WORKS	90 days	7 days	Thu 5/7/18	Tue 2/10/18	212 days	0%	301	Thu 5/7/18			
303 220512	EARTHWORKS AND DRAINAGE WORKS	60 days	-	Thu 5/7/18	Sun 2/9/18	242 days	0%	301	Thu 5/7/18			
	Task Summary	_	Ext	ternal Milestone	Ir	nactive Summary	V	Manual Summary R	ollup	Finish-only	3	
	Split Project Summar	y 🖓		ictive Task		Manual Task	C	Manual Summary		Critical		
	Milestone External Tasks		Ina	ctive Milestone	C	Duration-only		Start-only	C	Critical Split		

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

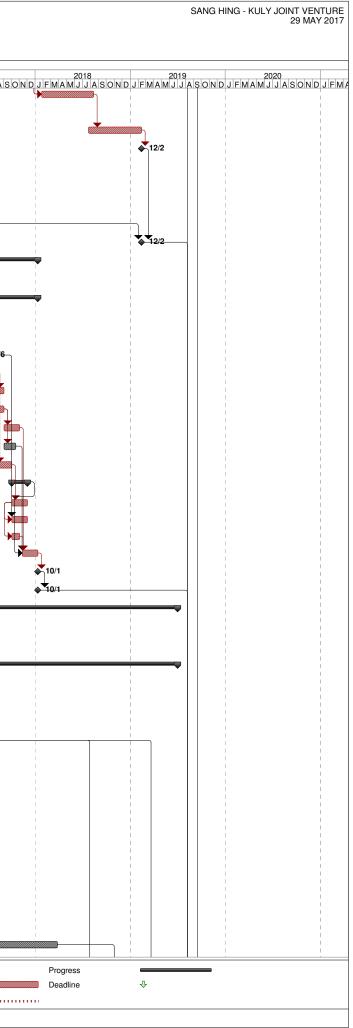


315	220525		90 days	TO days	Weu 14/6/17	1011 11/9/17	67 Uays	0%		Weu 14/0/17				700
315		CLP	90 days	10 days	Wed 14/6/17	Mon 11/9/17	67 days	0%	313SS	Wed 14/6/17				•
316		PRE-DRILLING WORKS FOR PILES	30 days	3 days	Sun 5/2/17	Mon 6/3/17	0 days	100%	309FS+30 days	Sun 5/2/17	_		!	
317	220525	PILE WORKS	45 days	4 days	Thu 2/11/17	Sat 16/12/17	16 days	0%	316FS+240 days,312,31		_			
318		LOAD TEST	45 days	4 days	Sun 17/12/17	Tue 30/1/18	202 days	0%	317	Sun 17/12/17			i I	
	220527	ABUTMENT CONSTRUCTION		7 days	Sun 17/12/17	Sat 14/7/18	16 days	0%	317	Sun 17/12/17				
320	220528	OFFSITE FABRICATION OF BRIDGE MEMBERS	210 days	10 days	Thu 2/11/17	Wed 30/5/18	82 days	0%	317SS	Thu 2/11/17				
321	220529	STEEL TRUSS AND DESK CONSTRUCTION	75 days	7 days	Sun 5/8/18	Thu 18/10/18	16 days	0%	320,319,323,318	Sun 5/8/18				
	220530	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	10 days	Tue 7/3/17	Thu 1/3/18	151 days	0%	316	Tue 7/3/17				
323	220531	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Sun 15/7/18	Sat 4/8/18	16 days	0%	322,319	Sun 15/7/18				
324	220532	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Fri 19/10/18	Mon 17/12/18	16 days	0%	321,323	Fri 19/10/18	_			
25	220533	ROAD WORKS	60 days	5 days	Tue 18/12/18	Fri 15/2/19	16 days	0%	324	Tue 18/12/18				
26		BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	120 days	10 days	Sat 16/2/19	Sat 15/6/19	16 days	0%	325	Sat 16/2/19			l l	
327	220535	COMPLETION OF PORTION N	0 days		Sat 15/6/19	Sat 15/6/19	16 days	0%	326	Sat 15/6/19	_			
328	220536	COMPLETION OF SECTION W2	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	215,244,268,291,305,32					
329	230001	SECTION W3	958 days		Thu 30/6/16	Tue 12/2/19	-44 days	55%		Thu 30/6/16				
330	230002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16		30/6		
331	230101	PORTION K (CH KW 1+360 - CH KW 2+070)	958 days		Thu 30/6/16	Tue 12/2/19	-44 days	52%		Thu 30/6/16			1	-
332	230102	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	330	Thu 30/6/16		→ 30/6		
333	230103	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	332SS	Thu 30/6/16		→		-
334	230104	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	332SS	Thu 30/6/16		ןשתן		
335	230105	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	0 days	100%	334	Thu 28/7/16		l 🎽		
336	230106	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	0 days	100%	335,334	Thu 25/8/16				
337	230107	UTILITIES DIVERSION WORKS (CLP, PCCW & FW MAINS)	60 days	0 day	Thu 25/8/16	Sun 23/10/16	0 days	100%		Thu 25/8/16				
338	230108	CLP	60 days	5 days	Thu 25/8/16	Sun 23/10/16	0 days	100%	335	Thu 25/8/16		╽╺┻┧		
330	230109	PCCW	60 days	5 days	Thu 25/8/16	Sun 23/10/16	0 days	100%	338SS	Thu 25/8/16				
	230110	FW MAINS	60 days	5 days	Thu 25/8/16	Sun 23/10/16	0 days	100%	338SS	Thu 25/8/16	-			
339	230110	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS)	68 days	5 days	Mon 12/9/16	Fri 18/11/16	0 days	100%	336SS+18 days	Mon 12/9/16				
339 340	230111					Sun 2/10/16	0 days	100%	341SS	Mon 12/9/16	-			
339 340 341		SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16						_		1	
339 340 341 342	230111	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days 21 days	2 days 2 days	Mon 12/9/16 Sat 19/11/16	Fri 9/12/16	0 days	100%	341	Sat 19/11/16		ין 🛣		
339 340 341 342 343	230111 230112 230113	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Sat 19/11/16	Fri 9/12/16								1
339 340 341 342 343 344	230111 230112 230113 230114	INSTALLATION OF MONITORING MARKERS RW 29C (66M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT	21 days 180 days	2 days 7 days	Sat 19/11/16 Sat 10/12/16	Fri 9/12/16 Wed 7/6/17	4 days	95%	336,337,341,343,342	Sat 10/12/16				-
339 340 341 342 343 344 345	230111 230112 230113 230114 230115	INSTALLATION OF MONITORING MARKERS RW 29C (66M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT RW 29B (50M)	21 days 180 days 80 days	2 days 7 days 7 days	Sat 19/11/16 Sat 10/12/16 Thu 8/6/17	Fri 9/12/16 Wed 7/6/17 Sat 26/8/17	4 days -44 days	95% 5%	336,337,341,343,342 344	Sat 10/12/16 Thu 8/6/17				
339 340 341 342 343 344 345 346	230111 230112 230113 230114	INSTALLATION OF MONITORING MARKERS RW 29C (66M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT	21 days 180 days	2 days 7 days 7 days 7 days 7 days	Sat 19/11/16 Sat 10/12/16	Fri 9/12/16 Wed 7/6/17	4 days	95%	336,337,341,343,342	Sat 10/12/16				

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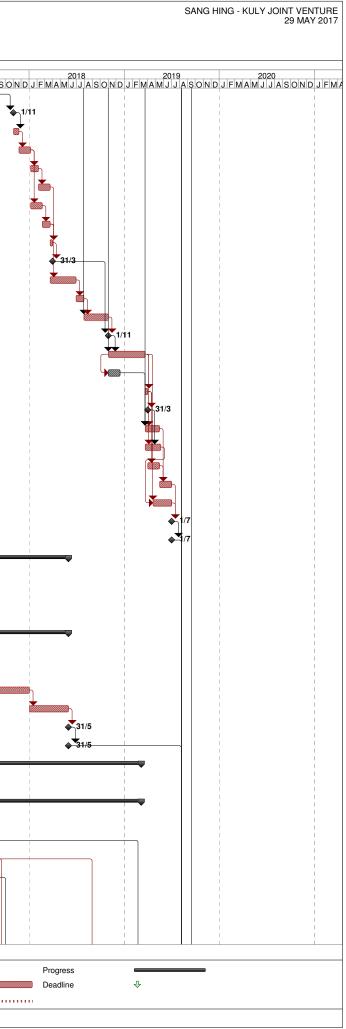


ID	Activity ID	Task Name	Duration	Time Risk Allowance	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2016	2017
349	230119	EARTHWORKS AND DRAINAGE WORKS	200 days	(davs) 21 days	Thu 25/1/18	Sun 12/8/18	-44 days	0%	348FS-90	Thu 25/1/18		
-									days,347FS-49 days			
50	230120	ROAD WORKS	204 days	21 days	Tue 24/7/18	Tue 12/2/19	-44 days	0%	349FS-20 days	Tue 24/7/18		
51	230121	COMPLETION OF PORTION K	0 days		Tue 12/2/19	Tue 12/2/19	-44 days	0%	350	Tue 12/2/19		
2	230201	PORTION J1	280 days		Sun 28/8/16	Sun 4/6/17	574 days	89%		Sun 28/8/16		_
3	230202	POSSESION OF SITE (J1)	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	432FS+60 days	Sun 28/8/16	◆ 28/8	
4	230203	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	0 days	100%	353SS	Mon 29/8/16		
5	230204	SITE INVESTIGATION	90 days	10 days	Tue 7/3/17	Sun 4/6/17	574 days	83%	316,354	Tue 7/3/17		
6	230205	COMPLETION OF SECTION W3	0 days		Tue 12/2/19	Tue 12/2/19	-44 days	0%	351,355	Tue 12/2/19		_
	240101	SECTION W4 PUBLIC TOILET	560 days		Thu 30/6/16	Wed 10/1/18	-10 days	12%		Thu 30/6/16		
	240102	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16	30 /6	
	240101	PORTION L	560 days		Thu 30/6/16	Wed 10/1/18	-10 days	12%		Thu 30/6/16		
		POSSESION OF SITE						100%	358		→ 30/6	
	240102		0 days	7 40.00	Thu 30/6/16	Thu 30/6/16	0 days			Thu 30/6/16	30/0	
	240103		100 days	7 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	360	Thu 30/6/16		
	240104	LATE DAY FOR OBTAIN APPROVED WA FORM WWO 542	0 days	10 dava	Sat 10/6/17	Sat 10/6/17	105 days	0%	261	Sat 10/6/17		+ -1
	240105		300 days	10 days	Sat 8/10/16	Thu 3/8/17	-10 days	0%	361	Sat 8/10/16		
	240106		30 days	4 days	Fri 4/8/17	Sat 2/9/17	0 days	0%	363	Fri 4/8/17		
	240107	SLUDGE HOLDING TANK	30 days	4 days	Fri 4/8/17	Sat 2/9/17	0 days	0%	364SS	Fri 4/8/17		Ч
	240108	BIO-TREATMENT FACILITY	60 days	5 days	Sun 3/9/17	Wed 1/11/17	0 days	0%	365	Sun 3/9/17		
7	240109	STEEL HOLLOW SECTION AT ROOF	45 days	5 days	Sun 3/9/17	Tue 17/10/17	15 days	0%	365	Sun 3/9/17		
8	240110	INTERNAL FINISHES	60 days	5 days	Fri 4/8/17	Mon 2/10/17	-10 days	0%	363	Fri 4/8/17		
9	240111	E&M. WORKS AND PD INSTALLATION	60 days		Tue 3/10/17	Fri 1/12/17	-10 days	0%		Tue 3/10/17		
)	240112	ELECTRICAL AND MVAC WORKS	60 days	5 days	Tue 3/10/17	Fri 1/12/17	-10 days	0%	368	Tue 3/10/17		
1	240113	PLUBMING WORKS	60 days	5 days	Tue 3/10/17	Fri 1/12/17	-10 days	0%	370SS,362	Tue 3/10/17		
2	240014	UNDERGROND DRAINAGE WORKS	30 days	3 days	Tue 3/10/17	Wed 1/11/17	0 days	0%	370SS	Tue 3/10/17		
3	240015	EXTERNAL FINISHES AND SURROUNDING AREA	60 days	7 days	Sun 12/11/17	Wed 10/1/18	-10 days	0%	367,366,372,369FS-20	d Sun 12/11/17		
4	240016	COMPLETION OF PORTION L	0 days		Wed 10/1/18	Wed 10/1/18	-10 days	0%	373	Wed 10/1/18		
5	240017	COMPLETION OF SECTION W4	0 days		Wed 10/1/18	Wed 10/1/18	-10 days	0%	374	Wed 10/1/18		
6	250001	SECTION W5 (SS 0.0 - 270)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	24%		Thu 30/6/16		
7	250002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16	3 0/6	
8	250003	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS	Thu 30/6/16		
9	250101	PORTION M (BRIDGE E)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	16%		Thu 30/6/16		
0	250102	POSSESION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	377SS	Thu 30/6/16	3 0/6	
1	250103	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	380SS	Thu 30/6/16		
2	250104	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	380SS	Thu 30/6/16		
3	250105	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 28/7/16	Sun 25/9/16	672 days	40%	382	Thu 28/7/16		
	250106	PREPARATION TDMP FOR PRE-DRILLING WORKS	45 days	4 days	Thu 30/6/16	Sat 13/8/16	0 days	100%	380SS	Thu 30/6/16		
5	250107	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sun 14/8/16	Sat 27/8/16	0 days	100%	384	Sun 14/8/16		
	250108	STARTING DATE OF 1ST DRY SEASON	0 days		Tue 1/11/16	Tue 1/11/16	0 days	100%	385	Tue 1/11/16		
	250108	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/11/16	0 days	100%	386,381,383SS+10 day			
	250109	PRE-DRILLING WORKS FOR PILES AT GRID 2	7 days	4 days	Thu 1/12/16	Wed 30/11/16 Wed 7/12/16	0 days	100%	387	Thu 1/12/16		
	250111	PRE-DRILLING WORKS FOR PILES AT GRID 3	7 days	4 days	Sun 15/1/17	Sat 21/1/17	0 days	100%	388,378	Sun 15/1/17		
	250112	PRE-DRILLING WORKS FOR PILES AT GRID 1	7 days	4 days	Wed 1/3/17	Tue 7/3/17	0 days	100%	389	Wed 1/3/17		
	250113	REMOVAL OF TEMPORARY DRAINAGE WORK	24 days	2 days	Wed 8/3/17	Fri 31/3/17	0 days	100%	389FS+7 days	Wed 8/3/17		r .
2	250114	END DATE OF 1ST DRY SEASON	0 days		Fri 31/3/17	Fri 31/3/17	0 days	100%	391	Fri 31/3/17		31/3
3	250115	PREPARATION OF TDMP FOR PILING WORKS	45 days	7 days	Mon 10/4/17	Wed 24/5/17	0 days	100%	392,390	Mon 10/4/17		
4	250116	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOIN	NTS 360 days	30 days	Sat 1/4/17	Mon 26/3/18	219 days	0%	391	Sat 1/4/17		
-		Task Summa	ary U	Ext	ternal Milestone	Ir	nactive Summary	V	Manual Summary R	ollup	Finish-only	ב ו
			Summary		ctive Task		lanual Task	C	Manual Summary	—	Critical	-



CEDD CONTRACT NO. YL/2015/01
CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS
UPDATE ACCEPTED PROGRAMME

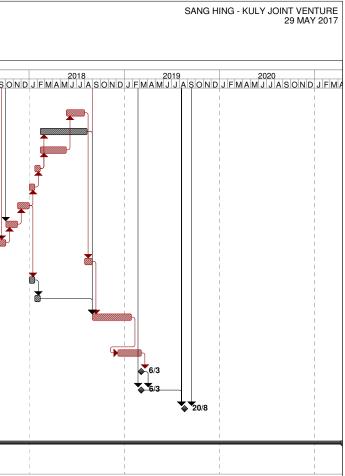
ID	Activity ID	Task Name	Duration	Time Risk Allowance (davs)	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2016 MAMJJASOND	2017	
395	250117	APPROVAL OF TDMP BY SUPERVISOR/DSD	50 days	2 days	Thu 25/5/17	Thu 13/7/17	110 days	0%	393	Thu 25/5/17			
396	250118	STARTING DATE OF 2ND DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	395	Wed 1/11/17			*
397	250119	TEMPORARY DRAINAGE WORKS (2ND DRY SEASON)	21 days	2 days	Wed 1/11/17	Tue 21/11/17	0 days	0%	396	Wed 1/11/17			
398	250120	PILING WORKS AT GRID 2	45 days	4 days	Wed 22/11/17	Fri 5/1/18	0 days	0%	397	Wed 22/11/17			
399	250121	PILE CAP AT GRID 2	30 days	3 days	Sat 6/1/18	Sun 4/2/18	0 days	0%	398	Sat 6/1/18			
400	250122	PIER CONSTRUCTION AT GRID 2	45 days	4 days	Mon 5/2/18	Wed 21/3/18	0 days	0%	399	Mon 5/2/18		1	
401	250123	PILING WORKS AT GRID 3	45 days	4 days	Sat 6/1/18	Mon 19/2/18	0 days	0%	398	Sat 6/1/18			
402	250124	PILE CAP AT GRID 3	30 days	3 days	Tue 20/2/18	Wed 21/3/18	0 days	0%	401	Tue 20/2/18			
403	250125	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	402,400	Thu 22/3/18			
404	250126	END DATE OF 2ND DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	403	Sat 31/3/18			
405	250127	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%	402	Thu 22/3/18			
406	250128	PILE CAP AT GRID 1	30 days	3 days	Sat 30/6/18	Sun 29/7/18	0 days	0%	405	Sat 30/6/18			
407	250129	ABUTMENT AT GRID 1	94 days	7 days	Mon 30/7/18	Wed 31/10/18	0 days	0%	406,383	Mon 30/7/18			
408	250130	STARTING DATE OF 3RD DRY SEASON	0 days		Thu 1/11/18	Thu 1/11/18	0 days	0%	407,404FS+214 days	Thu 1/11/18			
409	250131	BRIDGE DECK CONSTRUCTION WITH TEMPORARY DRAINAGE WORKS	141 days	10 days	Thu 1/11/18	Thu 21/3/19	0 days	0%	408,394	Thu 1/11/18			
410	250132	ABUTMENT AND MOVEMENT JOINT AT GRID 3	45 days	4 days	Thu 1/11/18	Sat 15/12/18	96 days	0%	409SS	Thu 1/11/18			
411	250133	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Fri 22/3/19	Sun 31/3/19	0 days	0%	409	Fri 22/3/19			
	250134	END DATE OF 3RD DRY SEASON	0 days		Sun 31/3/19	Sun 31/3/19	0 days	0%	411	Sun 31/3/19			
	250135	RAMP	55 days	5 days	Fri 22/3/19	Wed 15/5/19	0 days	0%	409,410,383	Fri 22/3/19			
	250136	STEEL STRUCTURAL ROOF WORKS	60 days	5 days	Fri 22/3/19	Mon 20/5/19	0 days	0%	409,412FS-10 days	Fri 22/3/19		1	
	250137	EARTHWORKS AND DRAINAGE WORKS	45 days	4 days	Mon 1/4/19	Wed 15/5/19	0 days	0%	411	Mon 1/4/19			
	250137	ROAD WORKS	47 days	4 days	Thu 16/5/19	Mon 1/7/19	0 days	0%	415,413	Thu 16/5/19			
	250138	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS		-	Sun 21/4/19	Mon 1/7/19		0%	409FS+30 days,414FS			1	
			72 days	7 days			0 days						
	250140		0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	416,417	Mon 1/7/19			
	250141		0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	418	Mon 1/7/19			
	260001	SECTION W6 (TM0.0 - 960)	701 days		Thu 30/6/16	Thu 31/5/18	0 days	56%		Thu 30/6/16			
	260002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16	→ → → → → → → → → →		
	260003	APPLICATION OF EXCAVATION PERMIT	300 days	10 days	Thu 30/6/16	Tue 25/4/17	0 days	100%	421SS	Thu 30/6/16			
	260004	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	300 days	10 days	Thu 30/6/16	Tue 25/4/17	34 days	80%	421SS	Thu 30/6/16			
424	260101	PORTION P	367 days		Mon 29/5/17	Thu 31/5/18	0 days	0%		Mon 29/5/17			
425	260102	POSSESION OF SITE	0 days		Mon 29/5/17	Mon 29/5/17	0 days	0%	421FS+334 days,423	Mon 29/5/17		29	/5
426	260103	DOCUMENT SUBMISSION	60 days	5 days	Tue 30/5/17	Fri 28/7/17	0 days	0%	425,422,423	Tue 30/5/17			1
427	260104	DRAINAGE WORKS	157 days	10 days	Sat 29/7/17	Mon 1/1/18	0 days	0%	426	Sat 29/7/17			
428	260105	ROAD WORKS	150 days	10 days	Tue 2/1/18	Thu 31/5/18	0 days	0%	427	Tue 2/1/18			
429	260106	COMPLETION OF PORTION P	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	428	Thu 31/5/18			
430	260107	COMPLETION OF SECTION W6	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	429	Thu 31/5/18		1	
431	270001	SECTION W7 (ST2.27 - 2.73, KW 0 - 1.35)	980 days		Thu 30/6/16	Wed 6/3/19	0 days	20%		Thu 30/6/16			
432	270002	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	0%	2SS	Thu 30/6/16	▶⊕_30/6		
433	270101	PORTION J2, J3	730 days		Tue 7/3/17	Wed 6/3/19	0 days	20%		Tue 7/3/17			
434	270102	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	0 days	100%	432	Tue 7/3/17		7/3	
435	270103	POSSESSION OF SITE (J2, J3)	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	434SS,432FS+250 day	s Tue 7/3/17		7/3	
436	270104	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Tue 7/3/17	Sat 2/9/17	0 days	80%	434SS	Tue 7/3/17		•	ω η
437	270105	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORIES HEIGHT TEMP. BLDG	110 days	2 days	Tue 7/3/17	Sat 24/6/17	100 days	0%	435SS	Tue 7/3/17)	
438	270106	INITIAL SURVEY	60 days	2 days	Tue 7/3/17	Fri 5/5/17	0 days	100%	435SS	Tue 7/3/17			
439	270107	TREE SURVEY	90 days	2 days	Tue 7/3/17	Sun 4/6/17	30 days	67%	435SS	Tue 7/3/17			
		Task Summary	~	Ext	ternal Milestone		Inactive Summary	Ų	Manual Summary R	ollup	Finish-only	ב	
		Split Project Summary			active Task		Manual Task	C	Manual Summary		Critical		
		Milestone		Ina	active Milestone 🔶		Duration-only		Start-only	C	Critical Split		



CEDD CONTRACT NO. YL/2015/01 CYCLE TRACKS FROM TUEN MUN TO SHEUNG SHUI - REMAINING WORKS UPDATE ACCEPTED PROGRAMME

ID	Activity ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2016 2017 MAMJJASONDJFMAMJJASO
440	270108	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	3 days	Mon 5/6/17	Thu 3/8/17	30 days	0%	439,438	Mon 5/6/17	
441	270109	RW 46 (67M)	70 days	7 days	Wed 23/5/18	Tue 31/7/18	0 days	0%	443	Wed 23/5/18	
442	270110	RW 47 (83 NOS OF SOILDER PILES)	180 days		Mon 12/2/18	Fri 10/8/18	20 days	0%	444	Mon 12/2/18	
443	270110	RW 48 (110M)	100 days	5 days	Mon 12/2/18	Tue 22/5/18	0 days	0%	444	Mon 12/2/18	
444	270111	RW 24A (20M)	21 days	2 days	Mon 22/1/18	Sun 11/2/18	0 days	0%	445	Mon 22/1/18	
445	270112	RW 24B (18M)	21 days	2 days	Mon 1/1/18	Sun 21/1/18	0 days	0%	446	Mon 1/1/18	
446	270113	RW 24C (82M)	45 days	7 days	Fri 17/11/17	Sun 31/12/17	0 days	0%	447	Fri 17/11/17	
447	270114	RW 25 (83M)	45 days	7 days	Tue 3/10/17	Thu 16/11/17	0 days	0%	448,437	Tue 3/10/17	
448	270115	RW 26 (20M)	30 days	2 days	Sun 3/9/17	Mon 2/10/17	0 days	0%	438,440,436	Sun 3/9/17	
449	270116	STREAM DECKING D8	30 days	2 days	Wed 1/8/18	Thu 30/8/18	0 days	0%	441	Wed 1/8/18	
450	270117	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Mon 1/1/18	Sun 21/1/18	200 days	0%	446	Mon 1/1/18	
451	270118	DEMOLITION OF EXISTING STRUCTURE	21 days	3 days	Mon 22/1/18	Sun 11/2/18	200 days	0%	450	Mon 22/1/18	
452	270119	EARTHWORKS AND DRAINAGE WORKS	150 days	10 days	Fri 31/8/18	Sun 27/1/19	0 days	0%	451,449,442,436	Fri 31/8/18	
453	270120	ROAD WORKS	90 days	7 days	Fri 7/12/18	Wed 6/3/19	0 days	0%	452FS-52 days	Fri 7/12/18	
454	270121	COMPLETION OF PORTION J	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	453	Wed 6/3/19	
455	270122	COMPLETION OF SECTION W7	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	454,435FS+730 days	Wed 6/3/19	
456	270123	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	455,430,419,375,356,32	28 Tue 20/8/19	
457											
458	300001	LANDSCAPING SOFTWORKS AND ESTABLISHMENT WORK	1757 days		Thu 30/6/16	Wed 21/4/21	0 days	0%		Thu 30/6/16	
503	1										

	Task		Summary	~	External Milestone	\$	Inactive Summary	\bigtriangledown	Manual Summary Rollup		Finish-only	3
	Split		Project Summary	$\bigtriangledown \qquad \qquad$	Inactive Task		Manual Task	3	Manual Summary		Critical	
	Milestone	•	External Tasks		Inactive Milestone	\diamond	Duration-only		Start-only	E	Critical Split	
REMARK: ALL SUNDAYS AND HO	LIDAYS ARE INCLUDE	D IN THIS PROGRA	MME									



Progress	
Deadline	

APPENDIX B MONITORING REQUIREMENTS

Appendix B - Environmental Impact Monitoring Requirements

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	 N1 - HKMLC Wong Chan Sook Ying Memorial School N2 - Bethel High School N3 - No. 159 Mai Po San Tsuen N5 - Block 2, Dills Corner Garden N6 - Home of Loving Faithfulness N7 - Village House in Shek Wu Wai 	 N1 – Façade measurement at Rooftop (about 5/F) area N2 – Façade measurement at Rooftop (about 4/F) area N3 – Free field measurement at G/F area N5 – Free field measurement at G/F area N6 – Façade measurement at Rooftop (about 3/F) area N7 – Free field measurement at G/F area

Remarks: # The impact monitoring at these locations will only be carried out until existence of the sensitive receiver at the building.

APPENDIX C ACTION AND LIMIT LEVELS FOR NOISE

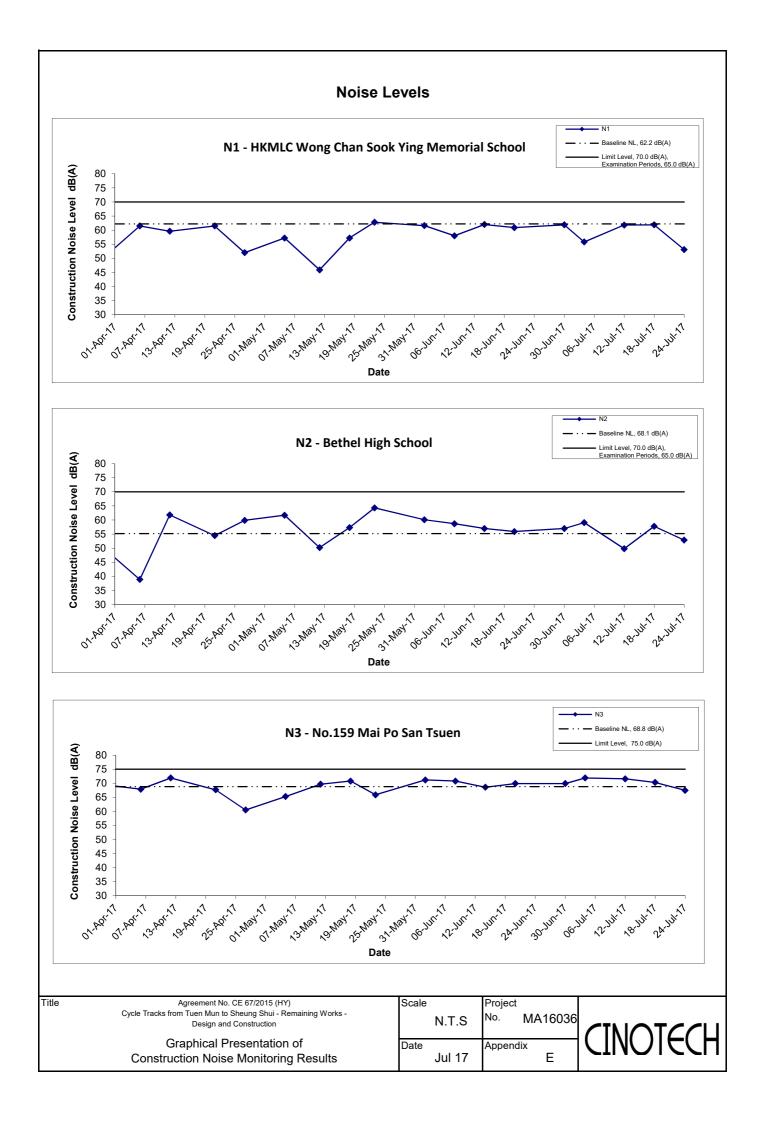
Appendix C - Action and Limit Levels

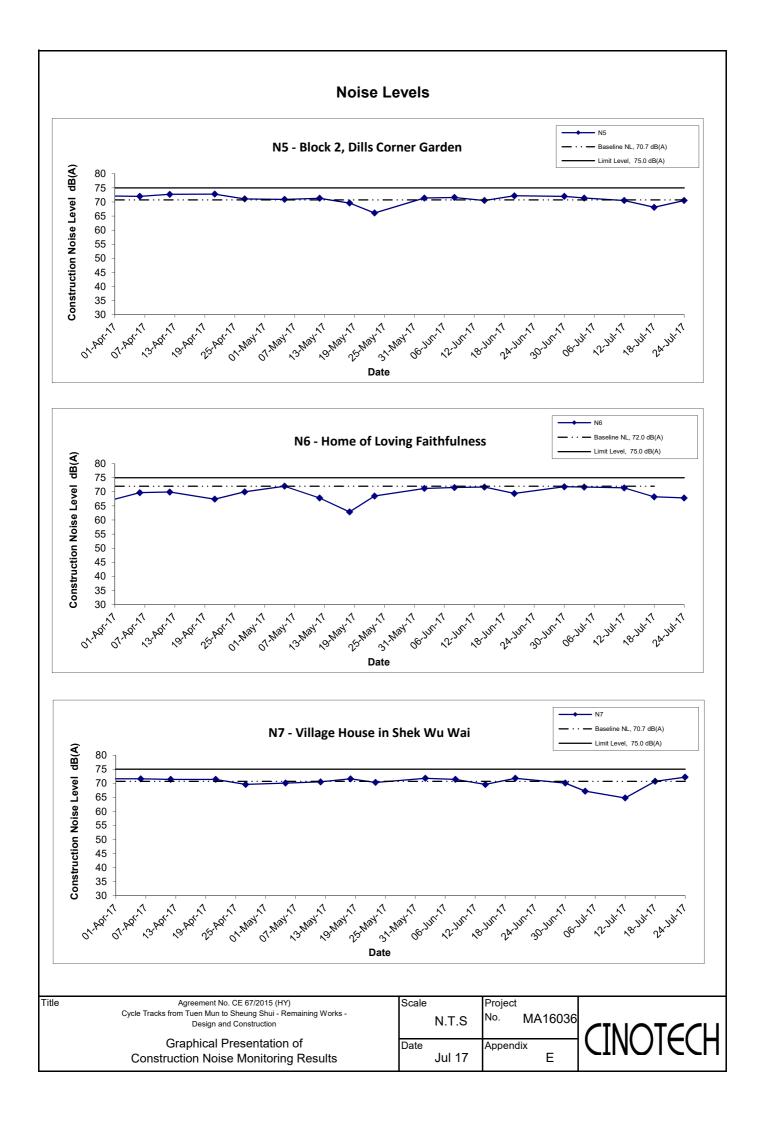
Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

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 D NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS





APPENDIX E ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Mitigation Measures	Status				
Construction	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	۸				
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 E - 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	
- road ripper, excavator mounted3.5.6.2S.4.2.19Noise enclosure shall be used for the following PMEs where practicable: - air compressor - hand-held breaker3.5.6.2S.4.2.19The barrier / enclosure material's surface mass shall be in excess of 7 kg/m².3.5.6.6S.4.2.19Use of alternative quieter plant such as road ripper, excavator mounted instead of handheld breaker during levelling/excavation works.3.5.6.8S.4.2.19The 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 EPD3.5.6.8S.4.2.19The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines3.5.6.8S.4.2.19Before commencing any work, the Contractor shall submit to the project Engineer for approval the method of working, equipment and noise mitigation measures			
			^
S.5.6.6	S.4.2.19		^
S.5.6.8	S.4.2.19	The Contractor shall adopt the Code of Practice on Good Management Practice to	^
S.5.6.8	S.4.2.19		^
S.5.6.8	S.4.2.19		Λ
		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	Λ
		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	Λ
		parallel use of noisy equipment / machinery should be avoided	
S.5.6.8	S.4.2.19	Regular maintenance of all plant and equipment	٨
S.5.6.8	S.4.2.19	Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable	N/A

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	٨
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	#
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	٨
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.	٨
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.	٨
Construction	Waste Managem	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;	٨
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	
		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	
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 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 	
S.7.4.1			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". 	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
Contractor shall register as a Chemical Waste Produce as spent lubricants and paints are generated on site. On waste collectors shall be employed to collect any chem site. The handling, storage, transportation and disposal be conducted in accordance with the Code of Practice Labelling and Storage of Chemical Wastes and A Guid		 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	 A.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 		#
S.7.4.1	S.6.2.6	 hygienic site throughout the project works; 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 	
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. 	
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. 	
Land Contam	ination		
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.	^

EIA Ref.	EM&A Ref.	Mitigation Measures	
		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	 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 	
S.8.7.5	identified works areas in order to avoid exposure to contaminants.		N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
Ecological &	Fisheries Impact		
S.9.11.4	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	
S.9.11.17 – S.9.11.19	S.8.2.4 (Stage 1) S.8.2.3 (Stage 2)	River including at R9 and Information Kiosk could be implemented as appropriate.For the Kam Tin section and the Long Valley section of the Project, constructionworks shall not be carried out during the wet season (April to October) which isconsidered to have no significant impact to wildlife and to avoid the breeding seasonof Greater Painted-snipes at Long Valley. This is also to prevent any site run-off toadjacent water channels and fishponds including those fishponds along San TinTsuen Road.	
\$.9.11.23			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	
		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.	
S.10.5.4	(Stage 1) S.8.2.8 (Stage 1) S.8.2.6 (Stage 2)	Drainage shall be implemented. 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.	
S.10.5.3	0.5.3S.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		٨
-	wet season to avoid runoff into the fishponds.S.8.2.10The 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			^
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.	٨
	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	which of the storage of materials including fuel, the movement of construction which hick 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.	٨
	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	^

EIA Ref.	EM&A Ref.	Mitigation Measures	
		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	٨
		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	٨
		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	٨
		hoarding along the site boundary facing adjacent VSRs	
	CP4.1	Replanting of disturbed vegetation should be undertaken at the earliest possible stage	٨
		of the construction phase	
	CP4.2	Use of native plant species predominantly in the planting design for the buffer areas.	٨
	CP4.3	The tree planting works should be implemented by approved Landscape Contractors	٨

EIA Ref.	EM&A Ref.	Mitigation Measures	
	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 approv Contractors and inspected and approved on site by a qualified I A tree protection / transplanting specification would be include		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.	Λ
	CP5.2 The implementation program should reserve enough time for advance tree transplanting preparation.		٨

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/A Not Applicable at this stage;	 Non-compliance but rectified by the 	
	N/A(1) Not observed;	contractor;	
	* Recommendation was made during site audit # Recommendation was made during site a		
	but improved/rectified by the contractor.	but not yet improved/rectified by the contractor.	

APPENDIX F SITE AUDIT SUMMARY

Appendix F Summary of Observation and Recommendation Made during Site Inspection

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.
Air Quality	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
	26 Apr, 5, 10, 16, 24 and 31 May 2017	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.
Waste / Chemical Management	26 Apr, 5, 10, 16, 24 and 31 May 2017	Rubbish bins or waste collectors should be provided in Portion C for proper disposal and storage of solid waste.	Follow up actions will be reported in the next month.
	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

Summary of Observations and Recommendations Made during Site Inspections in May 2017

Summary of Observation and Recommendation Made during Site Inspection in June 2017

Parameters	Date	Observations and Recommendations	Follow-up
	31 May, 7, 14, 20 and 28 June 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	31 May, 7, 14 and 20 June 2017	Sandbag bund should be provided to prevent silty runoff flowing to pubic roads at Portion E.	Silty runoff entering public area was not observed on 28 June 2017.
guuniy	31 May, 7, 14 and 20 June 2017	Ponding water should be cleared at Portion A and C.	Ponding water in Portion A and C was cleared on 28 June 2017.
	14 and 20 June 2017	Direct discharge of untreated wastewater was found at Portions C and I. The Contractor should provide appropriate and adequate treatment to wastewater prior to discharge.	Sedimentation tank was used for wastewater treatment before discharge on 28 June 2017.
Air Quality	31 May, 7, 14, 20 and 28 June 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.	Water spraying was provided on 7 June 2017.
Noise	N/A	There was no observation in the reporting period.	N/A
	31 May, 7, 14 and 20 June 2017	Drip trays should be provided to chemical containers in Portion E, K and WA3.	Chemical containers were removed on 28 June 2017.
Warda	31 May, 7, 14 and 20 June 2017	Rubbish bins or waste collectors should be provided in Portion C and K for proper disposal and storage of solid waste.	Rubbish bins were maintained on 28 June 2017.
Waste / Chemical Management	20 June 2017	General refuse found in Portion K should be properly cleared. Housekeeping in Portion K should be enhanced.	Housekeeping at Portion K was observed enhanced on 28 June 2017.
	28 June 2017	Drip trays should be provided for chemical containers in Portion C to prevent leakage.	Follow up actions will be reported in the next month.
	28 June 2017	General refuse found at Portion C should be properly cleared.	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	31 May, 7, 14 and 20 June 2017	Fencing of tree protection zones in Portion E, K and WA3 should be enhanced to protect all existing trees.	Fencing of tree protection zones were set up on 28 June 2017.
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A

Parameters	Date	Observations and Recommendations	Follow-up		
31 May, 7, 14, 20, 28 June, 5, 12 ,18, 27 July 2017 <i>Quality</i>		<u>Reminder:</u> Wheel washing bays in Portion A, C, I 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.	 will be reported in the next month. Portion A was observed to be improved/rectified by the contractor during the audit session on 27 July 2017. Portion C was observed to be improved/rectified by the contractor during the audit session on 28 June 2017. Portion K was observed to be improved/rectified by the contractor during the audit session on 28 June 2017. 		
	18 , 27 July 2017	Reminder: Sandbag bund at Portion I should be enhanced to prevent silty runoff entering public drainage.	Follow up actions will be reported in the next month.		
	31 May, 7, 14, 20 and 28 June 2017	Reminder: Tarpaulin coverage should be provided to the stockpiles in Portions A, C and Works Area 3 for dust suppression.	The deficiency was observed to be improved/rectified by the contractor during the audit session on 5 July 2017.		
Air Quality	5 July 2017	<u>Observation:</u> Public pedestrian road next to Portion E should be cleared of dust and kept clean.	The deficiency was observed to be improved/rectified by the contractor during the audit session on 12 July 2017.		
	12, 18 ,27 July 2017	<u>Observation:</u> Stockpiles at Portion A should be properly covered with impervious materials for dust suppression.	Follow up actions will be reported in the next month		
	18, 27 July 2017	Observation: The sheeting for covering the stockpiles at Portion K needs to be replaced/repaired	Follow up actions will be reported in the next month.		
Noise	N/A	There was no observation in the reporting period.	N/A		
	5 July 2017	Observation: Drip trays should be provided to chemical containers at Portion I to prevent chemical leakage	The deficiency was observed to be improved/rectified by the contractor during the audit session on 12 July 2017.		
Waste / Chemical Management	5 July 2017	Follow-up: General refuse found at Portion C should be properly cleared.	The deficiency was observed to be improved/rectified by the contractor during the audit session on 12 July 2017.		
	12 ,18 ,27 July 2017	Observation: General refuse was found at Portion E should be properly cleared.	Follow up actions will be reported in the next month.		
	18 ,27 July 2017	<u>Reminder:</u> General refuse was found at Portion L. Regular cleaning is needed.	Follow up actions will be reported in the next month.		

Parameters	Date	Observations and Recommendations	Follow-up		
18 , 27 July 2017		Observation: There are bottles of chemical directly placed on the soil surface without drip tray at Portion I.	Follow up actions will be reported in the next month.		
	27 July 2017	<u>Reminder:</u> Remove the stagnant water in the drip tray regularly.	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	12 ,18, 27 July 2017	Observation: Retained tree at Portion E is needed to be well maintained.	Follow up actions will be reported in the next month.		
Permits/ Licenses	N/A	There was no observation in the reporting period.	N/A		

APPENDIX G MONTHLY SUMMARY WASTE FLOW TABLE

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

	Wonting Summary Waster How Table for <u>2010</u> (Tear)										
	A	Actual Quantities	of Inert C&E	Materials Gene	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	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	_	-	_	-	-
Apr	-	-	-	-	-	-	_	-	_	-	-
May	-	-	-	-	-	-	_	-	_	-	-
June	-	-	-	-	-	-	-	-	-	-	-
Sub-total	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	0.01	0.01	0.01	-	0.01
Aug	-	-	-	-	_	-	0.01	0.01	0.01	-	0.01
Sept	0.005	-	-	-	0.005	-	0.01	0.01	0.01	-	0.06
Oct	-	-	-	-	-	-	0.05	0.05	0.05	-	0.04
Nov	0.35	-	-	-	0.35	-	0.05	0.05	0.05	-	0.05
Dec	0.4	-	-	-	0.4	-	0.05	0.05	0.05	-	0.05
Total	0.755	-	-	-	0.755	-	0.18	0.18	0.18	_	0.22

Monthly Summary Waste Flow Table for <u>2016</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

Name of Department: CEDD

Contract No.: YL/2015/01

	Monthly Summary Waster Flow Table 101(Tear)										
	A	ctual Quantities	of Inert C&I	O Materials Gene	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	1.63	-	-	-	1.63	-	0.05	0.05	0.05	-	0.02
July	1.25	-	-	-	1.25	-	0.05	0.05	0.05		0.01
Sub-total	5.53	-	-	-	5.53	0.493	0.35	0.35	0.35	-	0.15
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	_	-	-
Oct	-	-	-	-	-	-	-	-	_	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	_	-	-
Total	5.53	-	-	-	5.53	0.493	0.35	0.35	0.35	-	0.15

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 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)	
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].

APPENDIX H SUMMARY OF EXCEEDANCES

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

Appendix H – 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 period)

ANNEX I COMPARISONS OF EM&A DATA AND EIA PREDICTIONS

Annex I – Comparison of EM&A Data and EIA Predictions

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), Leq (30min) dB(A)	Reporting Month (June 17), Leq (30min) dB(A)	Reporting Month (July 17), Leq (30min) dB(A)	
N1 - HKMLC Wong						
Chan Sook Ying	55-62	62 ⁽¹⁾	45.9 - 62.8	58.0 - 62.0	53.1 - 61.9	
Memorial School						
N2 – Bethel High	57-64	64 ⁽¹⁾	50.2 - 64.3	55.9 - 60.1	49.8 - 59.1	
School	57-04	04	50.2 - 04.5	55.9 - 00.1	47.0 57.1	
N3 – No. 159 Mai	70-73	74 ⁽²⁾	65.3 - 70.8	68.6 - 71.2	67.5 – 71.9	
Po San Tsuen	10-13	74	05.5 - 70.8	00.0 - 71.2	07.3 - 71.9	
N5 – Block 2, Dills	73-75	$75^{(2)}$	66.1 – 71.3	70.5 - 72.2	68.1 – 71.4	
Corner Garden	13-13	15	00.1 - 71.5	10.5 - 12.2	00.1 - /1.4	
N6 – Home of	64-73	74 ⁽¹⁾	62.9 - 68.5	69.4 – 71.8	67.8 – 71.7	
Loving Faithfulness	04-75	/4` ′	02.9 - 00.3	07.4 - / 1.0	07.0 - 71.7	
N7 – Village House	N/A ⁽³⁾	$70^{(2)}$	70.3 – 71.6	69.6 – 71.8	64.8 - 72.2	
in Shek Wu Wai		70**	70.5 - 71.0	09.0 - /1.0	04.0 - 72.2	

Comparison of Noise Monitoring Data with EIA predictions

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)