

Appendix 4.2 Powered Mechanical Equipment (Unmitigated)

A Construction of Barrage Scheme

A1 Construction of E&M Control Room

A1.1 Site Clearance & Mobilisation

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
Total						117

A1.2 Excavation for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	4	112	50%	-	115
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
Total						119

A1.3 Piling Works for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Piling, large diameter bored, reverse circulation drill	CNP166	4	100	50%	-	103
Drill rig, rotary type (diesel)	CNP 072	4	110	50%	-	113
Crane, mobile/barge mounted	CNP 048	4	112	50%	-	115
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
Total						119

A1.4 Superstructure for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Concrete lorry mixer	CNP 044	1	109	50%	-	106
Total						115

A1.5 Construction of Access Road for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Concrete lorry mixer	CNP 044	1	109	50%	-	106
Poker, vibratory, hand-held	CNP 170	1	113	50%	-	110
Generator, standard	CNP 101	1	108	100%	-	108
Total						113

A1.6 E&M Installation for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	1	112	50%	-	109
Total						109

Appendix 4.2 Powered Mechanical Equipment (Unmitigated)

A2 Construction of Pumping Station A

A2.1 Site Clearance & Mobilisation

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
					Total	117

A2.2 Excavation for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	4	112	50%	-	115
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
					Total	119

A2.3 Piling Works for Pumping Station A

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Piling, large diameter bored, reverse circulation drill	CNP166	4	100	50%	-	103
Drill rig, rotary type (diesel)	CNP 072	4	110	50%	-	113
Crane, mobile/barge mounted	CNP 048	4	112	50%	-	115
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
					Total	119

A2.4 Concreting Works for Deepened Area for Pump Inlet A

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Generator, standard	CNP 101	2	108	100%	-	111
Concrete lorry mixer	CNP 044	1	109	50%	-	106
					Total	112

A2.5 Superstructure for Pumping Station A

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Concrete lorry mixer	CNP 044	1	109	50%	-	106
					Total	115

A2.6 E&M Installation for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	1	112	50%	-	109
					Total	109

Appendix 4.2 Powered Mechanical Equipment (Unmitigated)

A3 Construction of Pumping Station B

A3.1 Site Clearance & Mobilisation

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
					Total	117

A3.2 Excavation for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	4	112	50%	-	115
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
					Total	119

A3.3 Piling Works for Pumping Station B

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Piling, large diameter bored, reverse circulation drill	CNP166	4	100	50%	-	103
Drill rig, rotary type (diesel)	CNP 072	4	110	50%	-	113
Crane, mobile/barge mounted	CNP 048	4	112	50%	-	115
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
					Total	119

A3.4 Concreting Works for Deepened Area for Pump Inlet B

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Generator, standard	CNP 101	2	108	100%	-	111
Concrete lorry mixer	CNP 044	1	109	50%	-	106
					Total	112

A3.5 Superstructure for Pumping Station B

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Concrete lorry mixer	CNP 044	1	109	50%	-	106
					Total	115

A3.6 E&M Installation for E&M Control Room

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	1	112	50%	-	109
					Total	109

Appendix 4.2 Powered Mechanical Equipment (Unmitigated)

A4 Construction of Tidal Barrier & Deepened Area C

A4.1 Construct Cofferdam across Yuen Long Nullah (& isolation from upstream flows)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
					Total	117

A4.2 Excavation for Centre Section of Yuen Long Nullah

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	4	112	50%	-	115
Excavator mounted breaker	CNP 027	2	122	50%	-	122
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
					Total	124

A4.3 Piling Works for Centre Section of Yuen Long Nullah

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Piling, large diameter bored, reverse circulation drill	CNP166	4	100	50%	-	103
Drill rig, rotary type (diesel)	CNP 072	4	110	50%	-	113
Crane, mobile/barge mounted	CNP 048	4	112	50%	-	115
Water pump (electric)	CNP 281	4	88	100%	-	94
Generator, standard	CNP 101	4	108	100%	-	114
					Total	119

A4.4 Concreting Works for Tidal Barrier & Deepened Area C

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Concrete lorry mixer	CNP 044	1	109	50%	-	106
					Total	115

A4.5 Delivery and E&M Installations of Tidal Barriers

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
					Total	115

Appendix 4.2 Powered Mechanical Equipment (Unmitigated)

B Modification of Flow Diversion Structures in the intersection of YLN and YLBF

B1.1 Demolition of Existing Structure

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)#	Total SWL dB(A)
Concrete crusher, hand-held	CNP 053	2	97	100%	-	100
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
Total						117

B1.2 Excavation for Proposed Flow Diversion Structure

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
Total						117

B1.3 Concreting Works for Proposed Flow Diversion Structure

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	1	112	50%	-	109
Generator, standard	CNP 101	1	108	100%	-	108
Concrete lorry mixer	CNP 044	1	109	50%	-	106
Total						113

C Modification of Parapet Wall along YLN, SCR and KTR

C1.1 Parapet Wall along Yuen Long Nullah (Kung Um Road Section)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)#	Total SWL dB(A)
Excavator mounted breaker	CNP 027	2	122	50%	-	122
Total						122

C1.2 Parapet Wall along Sham Chung River

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)#	Total SWL dB(A)
Excavator mounted breaker	CNP 027	2	122	50%	-	122
Total						122

C1.3 Parapat Wall along Kam Tin River

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)#	Total SWL dB(A)
Excavator mounted breaker	CNP 027	2	122	50%	-	122
Total						122

Appendix 4.2 Powered Mechanical Equipment (Unmitigated)

D Revitalisation Works in YLN

D1.1 Temporary Flow Diversion Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)#	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
					Total	115

D1.2 Surface Breaking along Yuen Long Nullah

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
Excavator mounted breaker	CNP 027	2	122	50%	-	122
Generator, standard	CNP 101	2	108	100%	-	111
Water pump (electric)	CNP 281	2	88	100%	-	91
Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	50%	-	114
					Total	123

D1.3 Softscape & Hardscape Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB(A)	Total SWL dB(A)
Crane, mobile/barge mounted	CNP 048	1	112	50%	-	109
Generator, standard	CNP 101	1	108	100%	-	108
Excavator/loader, wheeled/tracked	CNP 081	2	112	50%	-	112
					Total	115