



APPENDIX 4.3

CONSTRUCTION PLANT INVENTORY DURING NON-RESTRICTED HOURS (UNMITIGATED SCENARIO)

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
All Work Area, except 3e	2) Tree Felling and/or Site Clearance	Dump truck	CNP 067	1	40%	117	113	118
		Excavator/ loader, wheeled/ tracked	CNP 081	2	70%	112	113	
Crane, mobile/ barge mounted (diesel)		CNP 048	1	50%	112	109		
Electric Chain Saw		EIA ref1	4	50%	101	104		
Breaker, hand-held, mass > 10kg and < 20kg		CNP 024	1	50%	108	105		
Excavator/ loader, wheeled/ tracked		CNP 081	1	70%	112	110		
3e	Site Clearance	Dump truck	CNP 067	1	40%	117	113	117
		Excavator/ loader, wheeled/ tracked	CNP 081	2	50%	112	112	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109	
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	50%	108	105	
3a	LFR Viaduct (North Section)							
(i)	Predrilling	Drill rig, rotary type (diesel)	OCUPME-015	2	100%	110	113	113
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	
(ii)	UU Diversion	Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	119
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95	
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Dump truck	CNP 067	1	50%	117	114	
		Crane, mobile/ barge mounted (diesel)	CNP 048	2	50%	112	112	
		Saw, circular, wood	CNP 201	2	70%	108	109	
		Drill/grinder, hand-held (electric)	CNP 065	2	40%	98	97	
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	40%	108	107	
(iii)	Piling	Piling, large diameter bored, reverse circulation drill	CNP 166	1	70%	100	98	117
		Bar bender and cutter (electric)	CNP 021	1	80%	90	89	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	30%	109	104	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	3	70%	95	98	
		Crane, mobile/ barge mounted (diesel)	CNP 048	3	30%	112	112	
		Dump truck	CNP 067	1	50%	117	114	
		Water pump, submersible (electric)	CNP 283	2	100%	85	88	
		Drill rig, rotary type (diesel)	OCUPME-015	1	50%	110	107	
		Air compressor, air flow <= 10m3/min	CNP 001	3	70%	100	103	
		Grout mixer	OCUPME-021	2	70%	90	91	
		Grout pump	OCUPME-022	2	70%	105	106	
		(iv)	ELS					
Air compressor, air flow <= 10m3/min	CNP 001			2	70%	100	101	114

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
(v)	Pile Caps	Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Mobile Crane	EPD-12289	1	50%	103	100	
		Drill rig, rotary type (diesel)	OCUPME-015	1	70%	110	108	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Grout mixer	OCUPME-021	1	100%	90	90	
		Grout pump	OCUPME-022	1	100%	105	105	
		Silent Piling by Press-in Method	IN1	1	100%	94	94	
		Welding set	EIA ref4	2	100%	78	81	
		Concrete lorry mixer	CNP 044	1	50%	109	106	118
		Poker, vibratory, hand-held	CNP 170	1	40%	113	109	
		Excavator/ loader, wheeled/ tracked	CNP 081	1	50%	112	109	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	40%	109	105	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	
		Water pump, submersible (electric)	CNP 283	1	100%	85	85	
Dump truck	CNP 067	1	70%	117	115			
Bar bender and cutter (electric)	CNP 021	1	70%	90	88			
(vi)	Abutment & Piers, and Reinstatement of Slope	Concrete lorry mixer	CNP 044	1	50%	109	106	115
		Poker, vibratory, hand-held	CNP 170	1	40%	113	109	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	80%	95	97	
		Forklift, LPG,output power ≤ 32kW,speed ≤ 10km/hr	OCUPME-018	1	70%	104	102	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	40%	109	105	
		Bar bender and cutter (electric)	CNP 021	1	100%	90	90	
		Roller, vibratory	CNP 186	1	40%	108	104	
		Compactor, vibratory	CNP 050	1	40%	105	101	
(vii)	Bridge Deck	Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	117
		Concrete lorry mixer	CNP 044	1	50%	109	106	
		Poker, vibratory, hand-held	CNP 170	1	50%	113	110	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	40%	109	105	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95	
		Dump truck	CNP 067	1	30%	117	112	
		Roller, vibratory	CNP 186	1	70%	108	106	
		Poker, vibratory, hand-held	CNP 170	1	40%	113	109	
		Bar bender and cutter (electric)	CNP 021	1	100%	90	90	

Area	Construction Activity	Unmitigated Scenario							
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)	
(viii)	Noise Barriers, Street Lighting, Street Furniture, Road Surfacing & Road Marking	Dump truck	CNP 067	1	30%	117	112	116	
		Paint line marker	CNP 161	1	30%	90	85		
		Asphalt paver	CNP 004	1	30%	109	104		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96		
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98		
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	70%	108	106		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109		
		Hydraulic crusher	EIA ref3	1	70%	94	92		
		Roller, vibratory	CNP 186	1	70%	108	106		
		Cherry Picker	EIA ref2	1	70%	107	105		
(ix)	Landscape and Establishment Works	Dump truck	CNP 067	1	50%	117	114	118	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96		
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98		
		Excavator/ loader, wheeled/ tracked	CNP 081	2	50%	112	112		
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110		
3b	LFR Viaduct (South Section)								
		(i) Predrilling	Drill rig, rotary type (diesel)	OCUPME-015	2	100%	110	113	113
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	
	(ii) UU Diversion	Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	119	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95		
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110		
		Dump truck	CNP 067	1	50%	117	114		
		Crane, mobile/ barge mounted (diesel)	CNP 048	2	50%	112	112		
		Saw, circular, wood	CNP 201	2	70%	108	109		
		Drill/grinder, hand-held (electric)	CNP 065	2	40%	98	97		
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	40%	108	107			
	(iii) Piling	Piling, large diameter bored, reverse circulation drill	CNP 166	1	70%	100	98	117	
		Bar bender and cutter (electric)	CNP 021	1	80%	90	89		
		Concrete pump, stationary/ lorry mounted	CNP 047	1	50%	109	106		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96		
		Crane, mobile/ barge mounted (diesel)	CNP 048	2	30%	112	110		
		Dump truck	CNP 067	1	50%	117	114		
		Water pump, submersible (electric)	CNP 283	1	100%	85	85		
		Drill rig, rotary type (diesel)	OCUPME-015	1	80%	110	109		

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
(iv)	ELS	Air compressor, air flow <= 10m3/min	CNP 001	2	70%	100	101	
		Grout mixer	OCUPME-021	1	70%	90	88	
		Grout pump	OCUPME-022	1	70%	105	103	
		Air compressor, air flow <= 10m3/min	CNP 001	2	70%	100	101	114
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Mobile Crane	EPD-12289	1	50%	103	100	
		Drill rig, rotary type (diesel)	OCUPME-015	1	70%	110	108	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Grout mixer	OCUPME-021	1	100%	90	90	
		Grout pump	OCUPME-022	1	100%	105	105	
		(v)	Pile Caps	Silent Piling by Press-in Method	IN1	1	100%	94
Welding set	EIA ref4			2	100%	78	81	
Concrete lorry mixer	CNP 044			1	50%	109	106	118
Poker, vibratory, hand-held	CNP 170			1	40%	113	109	
Excavator/ loader, wheeled/ tracked	CNP 081			1	50%	112	109	
Concrete pump, stationary/ lorry mounted	CNP 047			1	40%	109	105	
Generator, super silenced, 70 dB(A) at 7 m	CNP 103			1	100%	95	95	
Crane, mobile/ barge mounted (diesel)	CNP 048			1	70%	112	110	
Water pump, submersible (electric)	CNP 283			1	100%	85	85	
Dump truck	CNP 067			1	70%	117	115	
(vi)	Abutment & Piers, and Reinstatement of Slope			Bar bender and cutter (electric)	CNP 021	1	70%	90
		Concrete lorry mixer	CNP 044	1	50%	109	106	115
		Poker, vibratory, hand-held	CNP 170	1	40%	113	109	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	80%	95	97	
		Forklift, LPG,output power ≤ 32kW,speed ≤ 10km/hr	OCUPME-018	1	70%	104	102	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	40%	109	105	
		Bar bender and cutter (electric)	CNP 021	1	100%	90	90	
		Roller, vibratory	CNP 186	1	40%	108	104	
		Compactor, vibratory	CNP 050	1	40%	105	101	
(vii)	Bridge Deck	Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	117
		Concrete lorry mixer	CNP 044	1	50%	109	106	
		Poker, vibratory, hand-held	CNP 170	1	50%	113	110	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	40%	109	105	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95	

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
(viii)	Noise Barriers, Street Lighting, Street Furniture, Road Surfacing & Road Marking	Dump truck	CNP 067	1	30%	117	112	
		Roller, vibratory	CNP 186	1	70%	108	106	
		Poker, vibratory, hand-held	CNP 170	1	40%	113	109	
		Bar bender and cutter (electric)	CNP 021	1	100%	90	90	
		Dump truck	CNP 067	1	30%	117	112	116
		Paint line marker	CNP 161	1	30%	90	85	
		Asphalt paver	CNP 004	1	30%	109	104	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98	
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	70%	108	106	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109	
		Welding set	EIA ref4	1	70%	78	76	
		Roller, vibratory	CNP 186	1	70%	108	106	
Cherry Picker	EIA ref2	1	70%	107	105			
(ix)	Landscape and Establishment Works	Dump truck	CNP 067	1	50%	117	114	118
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98	
		Excavator/ loader, wheeled/ tracked	CNP 081	2	50%	112	112	
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	
3c	(i) Slip Road between TWR & WCR Predrilling							
		Drill rig, rotary type (diesel)	OCUPME-015	2	100%	110	113	113
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	
	(ii) ELS	Air compressor, air flow <= 10m3/min	CNP 001	2	70%	100	101	114
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Mobile Crane	EPD-12289	1	50%	103	100	
		Drill rig, rotary type (diesel)	OCUPME-015	1	70%	110	108	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Grout mixer	OCUPME-021	1	100%	90	90	
		Grout pump	OCUPME-022	1	100%	105	105	
	(iii) Piling (Stage 1 - At Ex. Slopes)	Silent Piling by Press-in Method	IN1	1	100%	94	94	
		Welding set	EIA ref4	2	100%	78	81	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	1	70%	95	93	116	
Crane, mobile/ barge mounted (diesel)		CNP 048	1	30%	112	107		

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
(iv)	Retaining Walls and U-troughs (Stage 1)	Dump truck	CNP 067	1	50%	117	114	
		Water pump, submersible (electric)	CNP 283	1	100%	85	85	
		Drill rig, rotary type (diesel)	OCUPME-015	1	80%	110	109	
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98	
		Grout mixer	OCUPME-021	1	70%	90	88	
		Grout pump	OCUPME-022	1	70%	105	103	
		Bar bender and cutter (electric)	CNP 021	1	70%	90	88	118
		Concrete lorry mixer	CNP 044	1	70%	109	107	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	70%	109	107	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93	
		Dump truck	CNP 067	1	50%	117	114	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	
		Poker, vibratory, hand-held	CNP 170	1	70%	113	111	
		Saw, circular, wood	CNP 201	1	50%	108	105	
Water pump, submersible (electric)	CNP 283	1	70%	85	83			
(v)	Formation of Temp. Road for Traffic Diversion	Asphalt paver	CNP 004	1	70%	109	107	118
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Hydraulic crusher	EIA ref3	1	50%	94	91	
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Dump truck	CNP 067	1	30%	117	112	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	80%	112	111	
		Paint line marker	CNP 161	1	70%	90	88	
		Roller, vibratory	CNP 186	1	70%	108	106	
(vi)	Piling (Stage 2 - At Ex. Slip Road)	Bar bender and cutter (electric)	CNP 021	1	70%	90	88	118
		Concrete lorry mixer	CNP 044	1	70%	109	107	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	70%	109	107	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93	
		Dump truck	CNP 067	1	50%	117	114	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	
		Poker, vibratory, hand-held	CNP 170	1	70%	113	111	
		Saw, circular, wood	CNP 201	1	50%	108	105	
		Water pump, submersible (electric)	CNP 283	1	70%	85	83	
(vii)	Retaining Walls and U-troughs (Stage 2)	Bar bender and cutter (electric)	CNP 021	1	70%	90	88	118
		Concrete lorry mixer	CNP 044	1	70%	109	107	

Area	Construction Activity	Unmitigated Scenario							
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)	
(viii)	Street Lighting, Street Furniture, Road Surfacing & Road Marking	Concrete pump, stationary/ lorry mounted	CNP 047	1	70%	109	107		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93		
		Dump truck	CNP 067	1	50%	117	114		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110		
		Poker, vibratory, hand-held	CNP 170	1	70%	113	111		
		Saw, circular, wood	CNP 201	1	50%	108	105		
		Water pump, submersible (electric)	CNP 283	1	70%	85	83		
		Paint line marker	CNP 161	1	30%	90	85	113	
		Asphalt paver	CNP 004	1	30%	109	104		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93		
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98		
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	70%	108	106		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109		
		Roller, vibratory	CNP 186	1	70%	108	106		
(ix)	Landscape and Establishment Works	Dump truck	CNP 067	1	50%	117	114	118	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96		
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98		
		Excavator/ loader, wheeled/ tracked	CNP 081	2	50%	112	112		
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110		
3d	(i) TWR adjacent to Tsing Shan Tsuen LRT Station Street Lighting, Street Furniture, Road Surfacing & Road Marking								
		Paint line marker	CNP 161	1	30%	90	85	113	
		Asphalt paver	CNP 004	1	30%	109	104		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93		
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98		
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	70%	108	106		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109		
	Roller, vibratory	CNP 186	1	70%	108	106			
	(ii) Landscape and Establishment Works	Dump truck	CNP 067	1	50%	117	114	118	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96		
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98		
		Excavator/ loader, wheeled/ tracked	CNP 081	2	50%	112	112		
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110		

Area	Construction Activity	Unmitigated Scenario						Total SWL dB(A)	
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)		
3e (i)	Road Intersection of Lung Mun Road near Glorious Garden								
	Street Lighting, Street Furniture, Road Surfacing & Road Marking	Paint line marker	CNP 161	1	30%	90	85	113	
		Asphalt paver	CNP 004	1	30%	109	104		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93		
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98		
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	70%	108	106		
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109		
		Roller, vibratory	CNP 186	1	70%	108	106		
	(ii)	Landscape and Establishment Works	Dump truck	CNP 067	1	50%	117	114	117
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93	
			Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98	
			Excavator/ loader, wheeled/ tracked	CNP 081	1	50%	112	109	
			Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
			Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	
4 4a	Hoi Wing Road Slip Road and Junction Improvement of Castle Peak Road Hoi Wing Road Slip Road								
	(i)	Predrilling	Drill rig, rotary type (diesel)	OCUPME-015	2	70%	110	111	112
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	
	(ii)	UU Diversion, Removal and Re-provision of Staircase	Excavator/ loader, wheeled/ tracked	CNP 081	1	60%	112	110	118
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	80%	95	94	
			Dump truck	CNP 067	1	40%	117	113	
			Crane, mobile/ barge mounted (diesel)	CNP 048	2	40%	112	111	
			Saw, circular, wood	CNP 201	2	50%	108	108	
			Drill/grinder, hand-held (electric)	CNP 065	2	40%	98	97	
			Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	40%	108	107	
			Concrete lorry mixer	CNP 044	1	40%	109	105	
	(iii)	ELS Works (Stage 1 - For Piling Works)	Concrete pump, stationary/ lorry mounted	CNP 047	1	50%	109	106	
			Poker, vibratory, hand-held	CNP 170	1	40%	113	109	
			Air compressor, air flow <= 10m3/min	CNP 001	2	100%	100	103	117
			Excavator/ loader, wheeled/ tracked	CNP 081	2	70%	112	113	
			Mobile Crane	EPD-12289	1	50%	103	100	
			Drill rig, rotary type (diesel)	OCUPME-015	2	70%	110	111	
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	
			Grout mixer	OCUPME-021	2	80%	90	92	

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
(iv)	Piling (Bored Piles)	Grout pump	OCUPME-022	2	80%	105	107	
		Silent Piling by Press-in Method	IN1	2	100%	94	97	
		Welding set	EIA ref4	2	100%	78	81	
		Breaker, Excavator Mounted	Sandhurst XT-200	2	50%	108	108	
		Piling, large diameter bored, reverse circulation drill	CNP 166	2	70%	100	101	111
		Bar bender and cutter (electric)	CNP 021	2	80%	90	92	
		Concrete pump, stationary/ lorry mounted	CNP 047	2	50%	109	109	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	
		Water pump, submersible (electric)	CNP 283	2	100%	85	88	
(v)	Piling (Socketed H-piles)	Air compressor, air flow <= 10m3/min	CNP 001	2	70%	100	101	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	119
		Crane, mobile/ barge mounted (diesel)	CNP 048	2	30%	112	110	
		Dump truck	CNP 067	2	50%	117	117	
		Water pump, submersible (electric)	CNP 283	2	100%	85	88	
		Drill rig, rotary type (diesel)	OCUPME-015	2	80%	110	112	
		Air compressor, air flow <= 10m3/min	CNP 001	2	70%	100	101	
		Grout mixer	OCUPME-021	2	70%	90	91	
		Grout pump	OCUPME-022	2	70%	105	106	
(vi)	ELS Works (Stage 2 - For U-trough Construction)							
		Air compressor, air flow <= 10m3/min	CNP 001	2	100%	100	103	117
		Excavator/ loader, wheeled/ tracked	CNP 081	2	70%	112	113	
		Mobile Crane	EPD-12289	1	50%	103	100	
		Drill rig, rotary type (diesel)	OCUPME-015	2	70%	110	111	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	100%	95	98	
		Grout mixer	OCUPME-021	2	80%	90	92	
		Grout pump	OCUPME-022	2	80%	105	107	
		Silent Piling by Press-in Method	IN1	2	100%	94	97	
		Welding set	EIA ref4	2	100%	78	81	
(vii)	U-trough Structure	Breaker, Excavator Mounted	Sandhurst XT-200	2	50%	108	108	
		Bar bender and cutter (electric)	CNP 021	1	100%	90	90	118
		Concrete lorry mixer	CNP 044	1	70%	109	107	
		Concrete pump, stationary/ lorry mounted	CNP 047	1	70%	109	107	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Dump truck	CNP 067	1	30%	117	112	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	
		Poker, vibratory, hand-held	CNP 170	2	70%	113	114	

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
(viii)	Street Lighting, Street Furniture, Road Surfacing & Road Marking	Saw, circular, wood	CNP 201	1	50%	108	105	
		Water pump, submersible (electric)	CNP 283	1	70%	85	83	
		Paint line marker	CNP 161	1	30%	90	85	113
		Asphalt paver	CNP 004	1	30%	109	104	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	70%	95	93	
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98	
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	50%	108	108	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	50%	112	109	
		Roller, vibratory	CNP 186	1	70%	108	106	
(ix)	Landscape and Establishment Works							
		Dump truck	CNP 067	1	50%	117	114	118
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	2	70%	95	96	
		Air compressor, air flow <= 10m3/min	CNP 001	1	70%	100	98	
		Excavator/ loader, wheeled/ tracked	CNP 081	2	50%	112	112	
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	70%	112	110	
4b	(i) Junction Improvement between Hoi Wing Road and Castle Peak Road UU Diversion							
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	118
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95	
		Excavator/ loader, wheeled/ tracked	CNP 081	1	70%	112	110	
		Dump truck	CNP 067	1	50%	117	114	
		Crane, mobile/ barge mounted (diesel)	CNP 048	2	50%	112	112	
		Drill/grinder, hand-held (electric)	CNP 065	2	40%	98	97	
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	50%	108	108	
	(ii) Junction Improvement Works	Excavator/ loader, wheeled/ tracked	CNP 081	1	80%	112	111	118
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	70%	108	106	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	80%	112	111	
		Asphalt paver	CNP 004	1	70%	109	107	
		Roller, vibratory	CNP 186	1	90%	108	108	
		Paint line marker	CNP 161	1	80%	90	89	
Dump truck	CNP 067	1	30%	117	112			

Area	Construction Activity	Unmitigated Scenario						
		Equipment	Reference Code [2]	No. of item	% on-time in 30 min	PME SWL, dB(A)	Unmitigated Sub-total SWL, dB(A)	Total SWL dB(A)
4c (i)	Junction Improvement Works between Sam Shing Street and Castle Peak Road Junction Improvement Works							
		Excavator/ loader, wheeled/ tracked	CNP 081	1	80%	112	111	118
		Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	1	70%	108	106	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	1	100%	95	95	
		Crane, mobile/ barge mounted (diesel)	CNP 048	1	80%	112	111	
		Asphalt paver	CNP 004	1	70%	109	107	
		Roller, vibratory	CNP 186	1	90%	108	108	
		Paint line marker	CNP 161	1	80%	90	89	
		Dump truck	CNP 067	1	30%	117	112	

Notes:

The above construction activities will be carried out in phases, i.e. will not happen at the same time at the same workfront.

The figures are rounded-up to a whole number.

[1] Only one PME group will be operating at the same time for each activity;

[2] Sound power levels of other commonly used PME (by EPD) (OCUPME -no.);

[3] Sound Power Level of QPME (EPD's website)

[4] EIA Ref 1 - The SWL of Electric Chain Saw refer to the approved EIA Report of Tuen Mun South Extension (AEIAR-236/2022)

EIA Ref 2 - The SWL of Cherry Picker refer to the approved EIA Report of Revised Trunk Road T4 in Sha Tin (AEIAR-231/2021)

EIA Ref 3 - The SWL of Hydraulic crusher refer to the approved EIA Report of Revised Trunk Road T4 in Sha Tin (AEIAR-231/2021)

EIA Ref 4 - The SWL of Welding set refer to the approved EIA Report of Revised Trunk Road T4 in Sha Tin (AEIAR-231/2021)

[5] IN1 - Silent Piling by Press-in Method is adopted as an alternative of traditional sheet piling

[6] Reference for Sandhurst - XT-200 (Breaker, excavator mounted), please see specification provided in Appendix 4.10. The Project Engineer confirmed that the contractor is required to adopt breaker, excavator mounted with SWL not higher than 108dB(A). Relevant requirement will be included in the contract specification.