
Appendix 5.2G

**Construction Plant Inventory
(Mitigated)**

Activity	PME	TM	SWL	No.	% on time	Barrier Correction	Sub-SWL	Total SWL	
A1	Site Preparation	Generator, silenced, 75 dB(A) at 7m	CNP 102	100	2	100%	-10	93	113
		Breaker, mini-robot mounted	Others*	115	2	30%	-5	108	
		Dump Truck, 5.5 tonne <gross vehicle weight =< 38 tonne	Others*	105	2	50%	0	105	
		Poker, vibratory, hand-held (electric)	Others*	102	1	20%	-5	90	
		Concrete lorry mixer	CNP 044	109	2	30%	0	107	
		Water pump (electric)	CNP 281	88	2	100%	0	91	
		Excavator/ loader, wheeled/ tracked	EPD-01431	103	2	30%	0	101	
		Backhoe	CNP 081	109	2	50%	-5	104	
A2	Pilling	Crane, moblie (diesel)	EPD-01477	104	2	50%	-5	99	111
		Pilling, large diameter bored, reverse circulation drill	CNP 166	100	2	50%	-10	90	
		Pilling, large diameter bored, oscillator	CNP 165	115	2	50%	-10	105	
		Generator, silenced, 75 dB(A) at 7m	CNP 102	100	2	100%	-10	93	
		Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-10	97	
		Concrete lorry mixer	CNP 044	109	1	50%	0	106	
		Dump Truck, 5.5 tonne <gross vehicle weight =< 38 tonne	Others*	105	2	50%	0	105	
		Excavator/ loader, wheeled/ tracked	EPD-01431	103	2	30%	0	101	
A3	Pile Cap Construction	Crane, moblie (diesel)	EPD-01477	104	2	50%	-5	99	113
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	96	
		Poker, vibratory, hand-held (electric)	Others*	102	1	20%	-5	90	
		Bar bender and cutter (electric)	CNP 021	90	1	20%	0	83	
		Generator, silenced, 75 dB(A) at 7m	CNP 102	100	2	100%	-10	93	
		Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-10	97	
		Concrete lorry mixer	CNP 044	109	1	50%	0	106	
		Saw, circular, wood	BSS501Z**	103	2	30%	-5	96	
		Dump Truck, 5.5 tonne <gross vehicle weight =< 38 tonne	Others*	105	2	50%	0	105	
		Water pump (electric)	CNP 281	88	2	100%	0	91	
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	0	110	
Breaker, mini-robot mounted	Others*	115	1	10%	-5	100			
A4	Back-filling & Basement Structures	Crane, moblie (diesel)	EPD-01477	104	1	50%	-5	96	112
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	20%	-10	92	
		Poker, vibratory, hand-held (electric)	Others*	102	1	20%	-5	90	
		Bar bender and cutter (electric)	CNP 021	90	1	20%	0	83	
		Generator, silenced, 75 dB(A) at 7m	CNP 102	100	2	100%	-10	93	
		Concrete lorry mixer	CNP 044	109	1	20%	0	102	
		Power rammer (petrol)	CNP169	108	2	80%	-5	105	
		Compactor, vibratory	CNP 050	105	2	80%	-5	102	
		Roller, vibratory	CNP 185	108	1	80%	0	107	
		Water pump (electric)	CNP 281	88	2	30%	0	86	
		Dump Truck, 5.5 tonne <gross vehicle weight =< 38 tonne	Others*	105	2	50%	0	105	
Excavator/ loader, wheeled/ tracked	EPD-01431	103	2	30%	0	101			
A5	Superstructure	Crane, tower (electric)	CNP 049	95	2	80%	0	97	112
		Crane, moblie (diesel)	EPD-01477	104	2	80%	-5	101	
		Crane Lorry, 5.5 tonne <gross vehicle weight =< 38 tonne	Others*	105	1	50%	0	102	
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	96	
		Poker, vibratory, hand-held (electric)	Others*	102	3	50%	-5	99	
		Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87	
		Saw, circular, wood	BSS501Z**	103	2	30%	-5	96	
		Generator, silenced, 75 dB(A) at 7m	CNP 102	100	2	100%	-10	93	
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-10	94	
		Concrete lorry mixer	CNP 044	109	2	50%	0	109	
		Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	0	100	
		Water pump (electric)	CNP 281	88	2	30%	0	86	
		Excavator/ loader, wheeled/ tracked	EPD-01431	103	2	30%	0	101	
Hoist, passenger/ material (electric)	CNP 122	95	2	30%	0	93			
A5a	Steel Frame and Retractable Roof of Main Stadium	Crane, tower (electric)	CNP 049	95	2	80%	0	97	108
		Crane, moblie (diesel)	EPD-01477	104	3	80%	-5	103	
		Crane Lorry, 5.5 tonne <gross vehicle weight =< 38 tonne	Others*	105	1	50%	0	102	
		Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87	
		Saw, circular, wood	BSS501Z**	103	2	30%	-5	96	
		Generator, silenced, 75 dB(A) at 7m	CNP 102	100	2	100%	-10	93	
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-10	94	
		Drill/grinder, hand-held (electric)	CNP 065	98	7	30%	0	101	
Hoist, passenger/ material (electric)	CNP 122	95	2	30%	0	93			

Activity	PME	TM	SWL	No.	% on time	Barrier Correction	Sub-SWL	Total SWL	
A5b	Steel Roof Frame of Indoor Sports Centre	Crane, tower (electric)	CNP 049	95	2	80%	0	97	108
		Crane, mobile (diesel)	EPD-01477	104	3	80%	-5	103	
		Crane Lorry, 5.5 tonne <gross vehicle weight =< 38 tonne	Others*	105	1	50%	0	102	
		Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87	
		Saw, circular, wood	BSS501Z**	103	2	30%	-5	96	
		Generator, silenced, 75 dB(A) at 7m	CNP 102	100	2	100%	-10	93	
		Air compressor, air flow > 30m ³ /min	CNP 003	104	1	100%	-10	94	
		Drill/grinder, hand-held (electric)	CNP 065	98	7	30%	0	101	
A6	Builder's Work	Hoist, passenger/ material (electric)	CNP 122	95	2	30%	0	93	104
		Drill/grinder, hand-held (electric)	CNP 065	98	7	50%	0	103	
		Welder/Generator, portable	CNP107***	90	2	50%	0	90	
		Lifting Platform (electric)	CNP 122	95	2	50%	0	95	
A7a	External Works	Hoist, passenger/ material (electric)	CNP 122	95	2	30%	0	93	102
		Drill/grinder, hand-held (electric)	CNP 065	98	3	50%	0	100	
		Welder/Generator, portable	CNP107***	90	2	50%	0	90	
		Lifting Platform (electric)	CNP 122	95	2	50%	0	95	
A7b	Landscaping Works	Drill/grinder, hand-held (electric)	CNP 065	98	5	50%	0	102	103
		Welder/Generator, portable	CNP107***	90	2	50%	0	90	
		Hoist, passenger/ material (electric)	CNP 122	95	2	30%	0	93	

Remark:

Acoustic Mat will be applied on piling machines, 10 dB(A) reduction can be achieved.

Enclosure/ Shed/ Silencer will be applied on Generator, Air Compressor and Concrete Pump, 10 dB(A) reduction can be achieved.

Movable Noise Barrier will be applied on the other plants, 5 dB(A) reduction can be achieved.

* Others - EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

** BSS501Z - <http://www.makitatools.com/en-us/Modules/Home/Default.aspx>

***Reference to EIA report of AEIAR-171/2013 - Central Kowloon Route, Appendix 5.4A