

Annex E1

Proposed Construction  
Works Programme and  
Plant Inventory (Without  
Mitigation)



Pilot Project for Public-Private Partnership Conservation Scheme at Sha Lo Tung Valley

**Annex E1-2 Construction Plant Inventory - Unmitigated**

No.	Activities	Plant	TM / EPD <sup>(1)</sup> / BS 5228 ref.	No. of PME	On-time %	Unit SWL, dB(A)	SWL, dB(A) <sup>(2)</sup>	Total SWL, dB(A) <sup>(2)</sup>
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**I) Sha Lo Tung Road Improvement**

**1 Road Improvement Works Phase 1** **Maximum SWL for Phase 1<sup>(4)</sup> = 125**

Group A: Slope Works	Drill, hand-held	EPD/PME/11	6	100%	89	97	<b>111</b>
	Air Compressor, air flow > 10m <sup>3</sup> /min and < 30r	CNP 002	2	100%	102	105	
	Generator, silenced, 75dB(A) at 7m	CNP 102	2	100%	100	103	
	Grout pump	EPD/PME/15	2	100%	105	108	
Group B: Excavation Works	Lorry, with crane/grab, 5.5 tonne < gross vehicle	EPD/PME/36	1	100%	105	105	<b>115</b>
	Excavator/loader, wheeled/tracked	CNP 081	2	100%	112	115	
Group C: Filling Works	Compactor, vibratory	CNP 050	1	100%	105	105	<b>105</b>
Group D: Road Works	Breaker, excavator mounted (hydraulic)	CNP 028	2	100%	122	125	<b>125</b>
	Excavator/loader, wheeled/tracked	CNP 081	2	100%	112	115	
	Concrete mixer (electric)	CNP 045	2	100%	96	99	
	Poker, vibratory, hand-held (electric)	EPD/PME/19	2	100%	102	105	

**2 Road Improvement Works Phase 2** **Maximum SWL for Phase 2<sup>(4)</sup> = 125**

Group A: Slope Works	Drill, hand-held	EPD/PME/11	6	100%	89	97	<b>111</b>
	Air Compressor, air flow > 10m <sup>3</sup> /min and < 30r	CNP 002	2	100%	102	105	
	Generator, silenced, 75dB(A) at 7m	CNP 102	2	100%	100	103	
	Grout pump	EPD/PME/15	2	100%	105	108	
Group B: Minipile construction	Drill, hand-held	EPD/PME/11	2	100%	89	92	<b>110</b>
	Air Compressor, air flow > 10m <sup>3</sup> /min and < 30r	CNP 002	1	100%	102	102	
	Generator, standard	CNP 101	1	100%	108	108	
	Grout pump	EPD/PME/15	1	100%	105	105	
Group C: RC Wall Construction	Concrete mixer (electric)	CNP 045	1	100%	96	96	<b>110</b>
	Concrete pump, stationary/lorry mounted	CNP 047	1	100%	109	109	
	Poker, vibratory, hand-held (electric)	EPD/PME/19	1	100%	102	102	
Group D: Excavation Works	Lorry, with crane/grab, 5.5 tonne < gross vehicle	EPD/PME/36	1	100%	105	105	<b>115</b>
	Excavator/loader, wheeled/tracked	CNP 081	2	100%	112	115	
Group E: Filling Works	Compactor, vibratory	CNP 050	1	100%	105	105	<b>105</b>
Group F: Road Works	Breaker, excavator mounted (hydraulic)	CNP 028	2	100%	122	125	<b>125</b>
	Excavator/loader, wheeled/tracked	CNP 081	2	100%	112	115	
	Concrete mixer (electric)	CNP 045	2	100%	96	99	

**3 Road Improvement Works Phase 3** **Maximum SWL for Phase 3<sup>(4)</sup> = 125**

Group A: Slope Works	Drill, hand-held	EPD/PME/11	6	100%	89	97	<b>111</b>
	Air Compressor, air flow > 10m <sup>3</sup> /min and < 30r	CNP 002	2	100%	102	105	
	Generator, silenced, 75dB(A) at 7m	CNP 102	2	100%	100	103	
	Grout pump	EPD/PME/15	2	100%	105	108	
Group B: Excavation Works	Lorry, with crane/grab, 5.5 tonne < gross vehicle	EPD/PME/36	1	100%	105	105	<b>115</b>
	Excavator/loader, wheeled/tracked	CNP 081	2	100%	112	115	
Group C: Filling Works	Compactor, vibratory	CNP 050	1	100%	105	105	<b>105</b>
Group D: Road Works	Breaker, excavator mounted (hydraulic)	CNP 028	2	100%	122	125	<b>125</b>
	Excavator/loader, wheeled/tracked	CNP 081	2	100%	112	115	
	Concrete mixer (electric)	CNP 045	2	100%	96	99	

**II) Development Site**

**4 Site Formation** **Sub-total SWL for Site Formation = 123**

Earthworks	Excavator/loader, wheeled/tracked	CNP 081	3	100%	112	117	<b>118</b>
	Lorry, with crane/grab, 5.5 tonne < gross vehicle	EPD/PME/36	4	100%	105	111	
	Roller, vibratory	CNP 186	1	100%	108	108	
Retaining Walls	Concrete pump, stationary/lorry mounted	CNP 047	1	100%	109	109	<b>115</b>
	Generator, standard	CNP 101	1	100%	108	108	
	Poker, vibratory, hand-held (electric)	EPD/PME/19	2	100%	102	105	
	Lorry, with crane/grab, 5.5 tonne < gross vehicle	EPD/PME/36	1	100%	105	105	
	Concrete lorry mixer	CNP 044	1	100%	109	109	
Foundation Works	Concrete pump, stationary/lorry mounted	CNP 047	1	100%	109	109	<b>114</b>
	Generator, standard	CNP 101	1	100%	108	108	
	Poker, vibratory, hand-held (electric)	EPD/PME/19	2	100%	102	105	
	Bar bender and cutter (electric)	CNP 021	1	100%	90	90	
	Concrete lorry mixer	CNP 044	1	100%	109	109	
Drainage	Excavator/loader, wheeled/tracked	CNP 081	1	100%	112	112	<b>114</b>

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No.	Activities	Plant	TM / EPD <sup>[1]</sup> / BS 5228 ref.	No. of PME	On- time %	Unit SWL, dB(A)	SWL, dB(A) <sup>[2]</sup>	Total SWL, dB(A) <sup>[2]</sup>
		Concrete mixer (electric)	CNP 045	1	100%	96	96	
		Concrete pump, stationary/lorry mounted	CNP 047	1	100%	109	109	
		Poker, vibratory, hand-held (electric)	EPD/PME/19	1	100%	102	102	
	Slope Improvement Works	Drill rig, rotary type (diesel)	EPD/PME/12	2	100%	110	113	115
		Air Compressor, air flow > 10m <sup>3</sup> /min and < 30r	CNP 002	2	100%	102	105	
		Grout pump	EPD/PME/15	1	100%	105	105	
		Generator, standard	CNP 101	1	100%	108	108	
<b>5 Superstructure Works</b>			<b>Sub-total SWL for Superstructure Works = 120</b>					
	Reinforced Concrete	Crane, mobile/berge mounted (diesel)	CNP 048	2	100%	112	115	119
		Air Compressor, air flow > 10m <sup>3</sup> /min and < 30r	CNP 002	2	100%	102	105	
		Concrete lorry mixer	CNP 044	1	100%	109	109	
		Lorry, with crane/grab, 5.5 tonne < gross vehicle	EPD/PME/36	1	100%	105	105	
		Concrete pump, stationary/lorry mounted	CNP 047	2	100%	109	112	
		Generator, standard	CNP 101	2	100%	108	111	
		Poker, vibratory, hand-held (electric)	EPD/PME/19	4	100%	102	108	
		Bar bender and cutter (electric)	CNP 021	1	100%	90	90	
		Water pump (electric)	CNP 281	1	100%	88	88	
		Water pump, submersible (electric)	CNP 283	1	100%	85	85	
	Steel Works	Crane, mobile/berge mounted (diesel)	CNP 048	1	100%	112	112	114
		Air Compressor, air flow > 10m <sup>3</sup> /min and < 30r	CNP 002	1	100%	102	102	
		Generator, standard	CNP 101	1	100%	108	108	
		Lorry, with crane/grab, 5.5 tonne < gross vehicle	EPD/PME/36	1	100%	105	105	
<b>6 Drainage &amp; Other Works</b>			<b>Sub-total SWL for Drainage &amp; Other Works = 114</b>					
		Excavator/loader, wheeled/tracked	CNP 081	1	100%	112	112	114
		Concrete mixer (electric)	CNP 045	1	100%	96	96	
		Concrete pump, stationary/lorry mounted	CNP 047	1	100%	109	109	
		Poker, vibratory, hand-held (electric)	EPD/PME/19	1	100%	102	102	

**Notes:**

- [1] SWLs of EPD/PME items refer to the document prepared by the Noise Control Authority ([http://www.epd.gov.hk/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf))
- [2] The figures are rounded-up to a whole number.
- [4] Either Group A, B, C, D, E or F will be undertaken at any one time.