

A - Site Formation / Foundation

PME	CNP Ref / Other PME / BS 5228 ⁽¹⁾	Number	SWL, dB(A)	% on time with any 30 minutes	SWL with corrections, dB(A)	Total SWL, dB(A)
Mini Excavator mounted breaker	Table C8/12#c	1	106	100%	106	114.5
Bulldozer	Table C3/27#d*	1	109	50%	106	
Concrete lorry mixer	Table C6/23#a	1	100	100%	100	
Mobile crane	Table C7/114#ab	1	101	50%	98	
Mini Piling (Reverse circulation drill)	CNP 166	2	100	100%	103	
Dump truck with gross vehicle weight<38 tonne	Other PME	2	105	50%	105	
Excavator/loader	Table C3/97#ab	2	105	100%	108	
Generator (Super silenced)	CNP 103	2	95	100%	98	
Lorry with gross vehicle weight<38 tonne	Other PME	2	105	50%	105	
Poker, vibratory, hand-held (electric)	Other PME	1	102	100%	102	
Roller, vibratory	Table C3/115#a	1	102	100%	102	
Water pump	CNP 281	2	88	100%	91	

B - Superstructure

PME	CNP Ref / BS 5228 ⁽¹⁾	Number	SWL, dB(A)	% on time with any 30 minutes	SWL with corrections, dB(A)	Total SWL, dB(A)
Air Compressor, air flow <10 m ³ /min	CNP 001	1	100	100%	100	113.8
Bar bender and cutter (electric)	CNP 021	1	90	100%	90	
Generator (Super silenced)	CNP 103	2	95	100%	98	
Circular saw	CNP201	1	108	100%	108	
Concrete lorry mixer	Table C6/23#a	1	100	100%	100	
Concrete pump	Table C6/36#b	2	106	100%	109	
Crane, tower (electric)	CNP 049	2	95	100%	98	
Lorry/ Dump truck with gross vehicle weight<38 tonne	Other PME	2	105	50%	105	
Poker, vibratory, hand-held (electric)	Other PME	2	102	100%	105	

Notes:

1. Sound Power Levels are referred to GW-TM or "Sound power levels of other commonly used PME" (Other PME) published by EPD, or BS 5228:Part 1 1997.

2. "SWL" denotes as Sound Power Level.

- ID number refers to BS 5228.

a - the SWLs have been applied for the approved EIA Study for Widening of Tuen Mun Road at Tsing Tin Interchange (EIA-142/2007)

b - the SWLs have been applied for the approved EIA Study for Harbour Area Treatment Scheme (HATS) - Provision of Disinfection Facilities at Stonecutters Island Sewage Treatment Works (EIA-134/2007)

c - the SWLs have been applied for the approved EIA Study for A Commercial Scale Wind Turbine Pilot Demonstration at Hei Ling Chau (EIA-124/2006)

d - the SWLs have been applied for the approved EIA Study for Repositioning and Long Term Operation Plan of Ocean Park (EIA-121/2006)

* - Although bulldozer (BS5228 C9/2) was adopted for EIA reference d, BS5228 C3/27 is considered to be more relevant.

Predicted Construction Noise Levels - Mitigated Scenario with Quiet PMEs

N1a - Hung Kiu San Tsuen

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	35.3	-38.9	0.0	3.0	78.6
B - Superstructure	113.8	35.3	-38.9	0.0	3.0	77.9

N1b - Hung Kiu San Tsuen

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	45.2	-41.1	0.0	3.0	76.4
B - Superstructure	113.8	45.2	-41.1	0.0	3.0	75.7

N1c - Hung Kiu San Tsuen

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	86.1	-46.7	-5.0	3.0	65.8
B - Superstructure	113.8	86.1	-46.7	-5.0	3.0	65.1

N2 - Tin Hau Temple

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	293.6	-57.3	-5.0	3.0	55.2
B - Superstructure	113.8	293.6	-57.3	-5.0	3.0	54.5

N3 - Lee Ka Yuen

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	199.3	-54.0	-5.0	3.0	58.5
B - Superstructure	113.8	199.3	-54.0	-5.0	3.0	57.8

N4 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	296.3	-57.4	0.0	3.0	60.1
B - Superstructure	113.8	296.3	-57.4	0.0	3.0	59.4

N18 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	183.4	-53.2	0.0	3.0	64.3
B - Superstructure	113.8	183.4	-53.2	0.0	3.0	63.6

Predicted Construction Noise Levels - Mitigated Scenario with Quiet PMEs

N19 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	216.1	-54.7	0.0	3.0	62.8
B - Superstructure	113.8	216.1	-54.7	0.0	3.0	62.1

N20 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	156.1	-51.8	0.0	3.0	65.7
B - Superstructure	113.8	156.1	-51.8	0.0	3.0	65.0

N21 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	163.8	-52.3	0.0	3.0	65.2
B - Superstructure	113.8	163.8	-52.3	0.0	3.0	64.5

N22 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	188.2	-53.5	-5.0	3.0	59.0
B - Superstructure	113.8	188.2	-53.5	-5.0	3.0	58.3

N23 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	318.7	-58.0	0.0	3.0	59.5
B - Superstructure	113.8	318.7	-58.0	0.0	3.0	58.8

N24 - Village House

Construction Activity	Total SWL, dB(A)	Horizontal Distance to Notional Source, m	Distance Correction, dB(A)	Correction (Screened by Natural Topography), dB(A)	Facade Correction, dB(A)	Predicted Noise Level, dB(A)
A - Site Formation / Foundation	114.5	336.4	-58.5	0.0	3.0	59.0
B - Superstructure	113.8	336.4	-58.5	0.0	3.0	58.3

Notes:

1. The representative NSRs N2, N3 and N9 are screened from the Site by the natural topography. These NSRs have no direct line of sight to the Site.
2. "SWL" denotes as Sound Power Level.