

Plant Inventory of Construction Noise - Unmitigated Scenario

A - Site Formation / Foundation

PME	CNP Ref / Other PME ⁽¹⁾	Number	SWL, dB(A)	% on time with any 30 minutes	SWL with corrections, dB(A)	Total SWL, dB(A)
Mini Excavator mounted breaker	Other PME	1	115	100%	115	121.2
Bulldozer	CNP 030	1	115	50%	112	
Concrete lorry mixer	CNP 044	1	109	100%	109	
Mobile crane	CNP 048	1	112	50%	109	
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	CNP 081	2	112	100%	115	
Generator (silenced)	CNP 102	2	100	100%	103	
Lorry with gross vehicle weight<38 tonne	Other PME	2	105	50%	105	
Poker, vibratory, hand-held	CNP 170	1	113	100%	113	
Roller, vibratory	CNP 186	1	108	100%	108	
Water pump	CNP 281	2	88	100%	91	

B - Superstructure

PME	CNP Ref ⁽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	119.3
Bar bender and cutter (electric)	CNP 021	1	90	100%	90	
Generator (silenced)	CNP 102	2	100	100%	103	
Circular saw	CNP201	1	108	100%	108	
Concrete lorry mixer	CNP 044	2	109	100%	112	
Concrete pump	CNP 047	2	109	100%	112	
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	CNP 170	2	113	100%	116	

Notes:

1. Sound Power Levels are referred to GW-TM or "Sound power levels of other commonly used PME" (Other PME) published by EPD.
2. "SWL" denotes as Sound Power Level.

Predicted Construction Noise Levels Construction - Unmitigated Scenario

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	121.2	35.3	-38.9	0.0	3.0	85.3
B - Superstructure	119.3	35.3	-38.9	0.0	3.0	83.4

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	121.2	45.2	-41.1	0.0	3.0	83.1
B - Superstructure	119.3	45.2	-41.1	0.0	3.0	81.2

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	121.2	86.1	-46.7	-5.0	3.0	72.5
B - Superstructure	119.3	86.1	-46.7	-5.0	3.0	70.6

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	121.2	293.6	-57.3	-5.0	3.0	61.9
B - Superstructure	119.3	293.6	-57.3	-5.0	3.0	60.0

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	121.2	199.3	-54.0	-5.0	3.0	65.2
B - Superstructure	119.3	199.3	-54.0	-5.0	3.0	63.3

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	121.2	296.3	-57.4	0.0	3.0	66.8
B - Superstructure	119.3	296.3	-57.4	0.0	3.0	64.9

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	121.2	183.4	-53.2	0.0	3.0	71.0
B - Superstructure	119.3	183.4	-53.2	0.0	3.0	69.1

Predicted Construction Noise Levels Construction - Unmitigated Scenario

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	121.2	216.1	-54.7	0.0	3.0	69.5
B - Superstructure	119.3	216.1	-54.7	0.0	3.0	67.6

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	121.2	156.1	-51.8	0.0	3.0	72.4
B - Superstructure	119.3	156.1	-51.8	0.0	3.0	70.5

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	121.2	163.8	-52.3	0.0	3.0	71.9
B - Superstructure	119.3	163.8	-52.3	0.0	3.0	70.0

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	121.2	188.2	-53.5	-5.0	3.0	65.7
B - Superstructure	119.3	188.2	-53.5	-5.0	3.0	63.8

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	121.2	318.7	-58.0	0.0	3.0	66.2
B - Superstructure	119.3	318.7	-58.0	0.0	3.0	64.3

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	121.2	336.4	-58.5	0.0	3.0	65.7
B - Superstructure	119.3	336.4	-58.5	0.0	3.0	63.8

Notes:

1. The representative NSRs N1c, 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.