

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
1	Zone 2 (for superstructure only)						
	Activity 5 - Superstructure						
	Group 1						
	Crane, tower (electric)	CNP 049	95	2	50%	95	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	3	50%	114	
	Crane Lorry 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	3	50%	107	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	3	50%	111	
	Poker, vibratory, hand-held (electric)	[1]	102	12	50%	110	
	Bar bender and cutter (electric)	CNP 021	90	3	50%	92	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
	Air compressor, air flow > 30m3/min	CNP 003	104	3	100%	109	
	Concrete lorry mixer	CNP 044	109	3	50%	111	
	Total SWL, dB (A)						119
	Group 2						
	Drill/grinder, hand-held (electric)	CNP 065	98	8	30%	102	
	Water pump (electric)	CNP 281	88	6	30%	91	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	30%	115	
	Fork Lift Truck	[2]	104	6	30%	107	
	Hoist, passenger/ material (electric)	CNP 122	95	6	30%	98	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						116
	Maximum SWL, dB (A)						119
	2	Zone 4					
		Activity 5 - Superstructure					
		Crane, tower (electric)	CNP 049	95	4	50%	98
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%	118
		Crane Lorry 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	8	50%	111
Concrete pump, stationary/ lorry mounted		CNP 047	109	8	50%	115	
Poker, vibratory, hand-held (electric)		[1]	102	40	50%	115	
Bar bender and cutter (electric)		CNP 021	90	8	50%	96	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	8	100%	104	
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%	110	
Concrete lorry mixer		CNP 044	109	8	50%	115	
Drill/grinder, hand-held (electric)		CNP 065	98	20	30%	106	
Water pump (electric)		CNP 281	88	14	30%	94	
Excavator/ loader, wheeled/ tracked		CNP 081	112	14	30%	118	
Fork Lift Truck		[2]	104	14	30%	110	
Hoist, passenger/ material (electric)		CNP 122	95	14	30%	101	
Total SWL, dB (A)						124	
3		Zone 5					
		Activity 3 - Superstructure					
		Crane, tower (electric)	CNP 049	95	1	50%	92
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
		Crane Lorry 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
		Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109
		Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109
		Bar bender and cutter (electric)	CNP 021	90	2	50%	90
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100	
	Water pump (electric)	CNP 281	88	3	30%	88	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112	
	Fork Lift Truck	[2]	104	3	30%	104	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95	
	Total SWL, dB (A)						118
	4	West Concrete Batching Plant (Operation)					
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113
		Concrete mixer (electric)	CNP 045	96	2	60%	97
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	99
		Concrete mixer (petrol)	CNP 046	96	6	60%	102
		Concrete lorry mixer	CNP 044	109	4	60%	113
		Batching plant	CNP 022	108	2	60%	109
		Air compressor, air flow > 10m3/min and ≤ 30m3/min	CNP 002	102	4	60%	106
		Tipper Lorry	BS 5228 Table D.3/112	113	2	30%	111
		Total SWL, dB (A)					

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)		
5	Modification of seawalls and construction of seawater intake / outfall							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	2	60%	110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107		
	Tug boat	CNP 221	110	1	60%	108		
Total SWL, dB (A)						117		
6/7	Pier Construction (Optional)							
	Group 1							
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						112	
	Group 2							
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	4	60%	113		
	Water pump (electric)	CNP 281	88	4	100%	94		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Group 3							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	2	60%	110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Maximum SWL, dB (A)						117	
	8	Viewing Platform (Optional)						
		Group 1						
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
		Tug boat	CNP 221	110	1	60%	108	
		Total SWL, dB (A)						113
		Group 2						
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
Total SWL, dB (A)						115		
Maximum SWL, dB (A)						115		

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
 [2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
1) Zone 2																										
Activity 5 - Superstructure	119	155	-52	3	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70							
2) Zone 4																										
Activity 5 - Superstructure	124	668	-64	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63							
3) Zone 5																										
Activity 3 - Superstructure	118	407	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61							
4) West Concrete Batching Plant (Operation)																										
Activity 5 - Superstructure	118	506	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59							
5) Modification of seawalls and construction of seawater intake / outfall																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	816	-66	3	54					54	54	54	54	54	54	54	54	54	54							
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	841	-66	3	53					53	53	53	53	53	53	53	53	53	53							
6) West Pier (Optional)																										
Activity 5 - Superstructure	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54							
7) South Pier (Optional)																										
Activity 5 - Superstructure	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62							
8) Viewing Platform (Optional)																										
Activity 5 - Superstructure	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59							
Predicted Noise Level of this Project, dB (A)						72	72	72	72	72	72	72	71	71	71	71	71	71	72							

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	199	-54	3	68	68	68	68	68	68	68	68	68	68	68		
2) Zone 4																	
Activity 5 - Superstructure	124	577	-63	3	64	64	64	64	64	64	64						
3) Zone 5																	
Activity 3 - Superstructure	118	321	-58	3	63	63	63	63	63	63							
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	419	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	726	-65	3	55				55	55	55	55	55	55	55	55	55
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	766	-66	3	54				54	54	54	54	54	54	54	54	54
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58
Predicted Noise Level of this Project, dB (A)						71	71	71	72	72	72	70	70	70	70	70	72
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	133	-50	3	71	71	71	71	71	71	71	71	71	71	71		
2) Zone 4																	
Activity 5 - Superstructure	124	610	-64	3	64	64	64	64	64	64	64						
3) Zone 5																	
Activity 3 - Superstructure	118	498	-62	3	59	59	59	59	59	59	59						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	598	-64	3	58	58	58	58	58	58	58	58	58	58	58		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	901	-67	3	53				53	53	53	53	53	53	53		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	936	-67	3	53				53	53	53	53	53	53	53		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61		
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	72	72	72	72		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	432	-61	3	61	61	61	61	61	61	61	61	61	61	61		
2) Zone 4																	
Activity 5 - Superstructure	124	1217	-70	3	58	58	58	58	58	58	58						
3) Zone 5																	
Activity 3 - Superstructure	118	981	-68	3	53	53	53	53	53	53	53						
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	1056	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1351	-71	3	49				49	49	49	49	49	49	49	49	49
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1351	-71	3	49				49	49	49	49	49	49	49	49	49
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	65	64	64	64	64	65

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
1) Zone 2																										
Activity 5 - Superstructure	119	506	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59							
2) Zone 4																										
Activity 5 - Superstructure	124	1302	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57							
3) Zone 5																										
Activity 3 - Superstructure	118	1040	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																										
Activity 5 - Superstructure	118	1140	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52							
5) Modification of seawalls and construction of seawater intake / outfall																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1425	-71	3	49					49	49	49	49	49	49	49	49	49	49							
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1425	-71	3	49					49	49	49	49	49	49	49	49	49	49							
6) West Pier (Optional)																										
Activity 5 - Superstructure	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49							
7) South Pier (Optional)																										
Activity 5 - Superstructure	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54							
8) Viewing Platform (Optional)																										
Activity 5 - Superstructure	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56							
Predicted Noise Level of this Project, dB (A)						64	64	64	64	64	64	64	64	64	63	63	63	63	63	64						

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	461	-61	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1284	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1021	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	1136	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1401	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1401	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54		
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	64	64	64	64		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	487	-62	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1279	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1038	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	1151	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1426	-71	3	49					49	49	49	49	49	49	49	49
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1426	-71	3	49					49	49	49	49	49	49	49	49
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57
Predicted Noise Level of this Project, dB (A)						64	64	64	64	64	64	64	63	63	63	63	64
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	464	-61	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1292	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1022	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	1150	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1400	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1400	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	64	64	64	64		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	465	-61	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1298	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1026	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	1155	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1410	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1410	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	64	64	64	64		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
1) Zone 2																										
Activity 5 - Superstructure	119	362	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62								
2) Zone 4																										
Activity 5 - Superstructure	124	1192	-70	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58								
3) Zone 5																										
Activity 3 - Superstructure	118	923	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54								
4) West Concrete Batching Plant (Operation)																										
Activity 5 - Superstructure	118	1050	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53								
5) Modification of seawalls and construction of seawater intake / outfall																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1315	-70	3	50					50	50	50	50	50	50	50	50	50								
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1315	-70	3	50					50	50	50	50	50	50	50	50	50								
6) West Pier (Optional)																										
Activity 5 - Superstructure	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50								
7) South Pier (Optional)																										
Activity 5 - Superstructure	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56								
8) Viewing Platform (Optional)																										
Activity 5 - Superstructure	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61								
Predicted Noise Level of this Project, dB (A)						66	66	66	67	67	67	66	66	66	66	66	66	66								
														2020												
														Min	Max											

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	348	-59	3	63	63	63	63	63	63	63	63	63	63	63		
2) Zone 4																	
Activity 5 - Superstructure	124	727	-65	3	62	62	62	62	62	62	62						
3) Zone 5																	
Activity 3 - Superstructure	118	470	-61	3	60	60	60	60	60	60	60						
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	451	-61	3	60	60	60	60	60	60	60	60	60	60	60		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	801	-66	3	54				54	54	54	54	54	54	54		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	876	-67	3	53				53	53	53	53	53	53	53		
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54		
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59		
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55		
Predicted Noise Level of this Project, dB (A)						68	68	68	69	69	69	67	67	67	67		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P7

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12	Min	Max	
1) Zone 2																	
Activity 5 - Superstructure	119	252	-56	3	65	65	65	65	65	65	65	65	65	65	65		
2) Zone 4																	
Activity 5 - Superstructure	124	1109	-69	3	58	58	58	58	58	58	58						
3) Zone 5																	
Activity 3 - Superstructure	118	845	-67	3	55	55	55	55	55	55							
4) West Concrete Batching Plant (Operation)																	
	118	958	-68	3	53	53	53	53	53	53	53	53	53	53	53		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1225	-70	3	50				50	50	50	50	50	50	50		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1225	-70	3	50				50	50	50	50	50	50	50		
6) West Pier (Optional)																	
	117	1265	-70	3	50	50	50	50	50	50	50	50	50	50	50		
7) South Pier (Optional)																	
	117	606	-64	3	57	57	57	57	57	57	57	57	57	57	57		
8) Viewing Platform (Optional)																	
	115	257	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62
Predicted Noise Level of this Project, dB (A)						68	68	68	68	68	68	68	68	68	68	68	68

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P13

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																					
						4	5	6	7	8	9	10	11	12													
1) Zone 2																											
Activity 5 - Superstructure	119	102	-48	3	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73								
2) Zone 4																											
Activity 5 - Superstructure	124	883	-67	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60								
3) Zone 5																											
Activity 3 - Superstructure	118	623	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57								
4) West Concrete Batching Plant (Operation)																											
Activity 5 - Superstructure	118	741	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56								
5) Modification of seawalls and construction of seawater intake / outfall																											
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1075	-69	3	51					51	51	51	51	51	51	51	51	51	51								
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1075	-69	3	51					51	51	51	51	51	51	51	51	51	51								
6) West Pier (Optional)																											
Activity 5 - Superstructure	117	1045	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52								
7) South Pier (Optional)																											
Activity 5 - Superstructure	117	426	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60								
8) Viewing Platform (Optional)																											
Activity 5 - Superstructure	115	81	-46	3	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72								
Predicted Noise Level of this Project, dB (A)						76	76	76	76	76	76	76	76	76	76	76	76	76	76	76							
																		2020									
																		Min	Max								

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P17

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	32	-38	3	83	83	83	83	83	83	83	83	83	83			
2) Zone 4																	
Activity 5 - Superstructure	124	813	-66	3	61	61	61	61	61	61	61						
3) Zone 5																	
Activity 3 - Superstructure	118	553	-63	3	58	58	58	58	58	58	58						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	670	-65	3	57	57	57	57	57	57	57	57	57	57	57	57	
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	940	-67	3	53				53	53	53	53	53	53	53	53	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	940	-67	3	53				53	53	53	53	53	53	53	53	
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	975	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	355	-59	3	61	61	61	61	61	61	61	61	61	61	61	61	
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	161	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	
Predicted Noise Level of this Project, dB (A)						84	84	84	84	84	84	83	83	83	83	84	
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P21

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	40	-40	3	81	81	81	81	81	81	81	81	81	81			
2) Zone 4																	
Activity 5 - Superstructure	124	755	-66	3	62	62	62	62	62	62	62						
3) Zone 5																	
Activity 3 - Superstructure	118	490	-62	3	59	59	59	59	59	59	59						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	626	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	890	-67	3	53					53	53	53	53	53	53	53	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	890	-67	3	53					53	53	53	53	53	53	53	
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	910	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	257	-56	3	64	64	64	64	64	64	64	64	64	64	64	64	
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	148	-51	3	67	67	67	67	67	67	67	67	67	67	67	67	
Predicted Noise Level of this Project, dB (A)						82	82	82	82	82	82	82	82	82	82	82	82
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P26

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020												
						4	5	6	7	8	9	10	11	12				
1) Zone 2																		
Activity 5 - Superstructure	119	41	-40	3	81	81	81	81	81	81	81	81	81	81				
2) Zone 4																		
Activity 5 - Superstructure	124	664	-64	3	63	63	63	63	63	63	63	63	63	63				
3) Zone 5																		
Activity 3 - Superstructure	118	399	-60	3	61	61	61	61	61	61	61	61	61	61				
4) West Concrete Batching Plant (Operation)																		
Activity 5 - Superstructure	118	536	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58
5) Modification of seawalls and construction of seawater intake / outfall																		
Intake of Independent Coolinh System for MPV/EC & Hotel	117	791	-66	3	54					54	54	54	54	54	54	54	54	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	791	-66	3	54					54	54	54	54	54	54	54	54	
6) West Pier (Optional)																		
Activity 5 - Superstructure	117	821	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	
7) South Pier (Optional)																		
Activity 5 - Superstructure	117	193	-54	3	67	67	67	67	67	67	67	67	67	67	67	67	67	
8) Viewing Platform (Optional)																		
Activity 5 - Superstructure	115	233	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	
Predicted Noise Level of this Project, dB (A)						82	82	82	82	82	82	82	82	82	82	82	82	82
																2020		
																Min	Max	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P29

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	162	-52	3	69	69	69	69	69	69	69	69	69	69			
2) Zone 4																	
Activity 5 - Superstructure	124	537	-63	3	65	65	65	65	65	65	65						
3) Zone 5																	
Activity 3 - Superstructure	118	279	-57	3	64	64	64	64	64	64	64						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	396	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	681	-65	3	55				55	55	55	55	55	55	55	55	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	701	-65	3	55				55	55	55	55	55	55	55	55	
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	706	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	217	-55	3	66	66	66	66	66	66	66	66	66	66	66	66	
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	376	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	72	72	72	72	73	
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P32

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020												
						4	5	6	7	8	9	10	11	12				
1) Zone 2																		
Activity 5 - Superstructure	119	163	-52	3	69	69	69	69	69	69	69	69	69	69	69	69	69	
2) Zone 4																		
Activity 5 - Superstructure	124	530	-62	3	65	65	65	65	65	65	65	65	65	65	65	65	65	
3) Zone 5																		
Activity 3 - Superstructure	118	266	-56	3	65	65	65	65	65	65	65	65	65	65	65	65	65	
4) West Concrete Batching Plant (Operation)																		
Activity 5 - Superstructure	118	420	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61	
5) Modification of seawalls and construction of seawater intake / outfall																		
Intake of Independent Coolinh System for MPV/EC & Hotel	117	660	-64	3	56					56	56	56	56	56	56	56	56	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	655	-64	3	56					56	56	56	56	56	56	56	56	
6) West Pier (Optional)																		
Activity 5 - Superstructure	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56	
7) South Pier (Optional)																		
Activity 5 - Superstructure	117	109	-49	3	72	72	72	72	72	72	72	72	72	72	72	72	72	
8) Viewing Platform (Optional)																		
Activity 5 - Superstructure	115	353	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	
Predicted Noise Level of this Project, dB (A)						75	75	75	75	75	75	74	74	74	74	74	75	
																2020	Min	Max

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.