

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	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	EPD-01516	101	3	50%	-5	Movable Barrier	98	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	3	50%	-5	Movable Barrier	102	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	3	50%	-10	Movable Barrier	101	
	Poker, vibratory, hand-held (electric)	[1]	102	12	50%	-10	Movable Barrier	100	
	Bar bender and cutter (electric)	CNP 021	90	3	50%	-10	Movable Barrier	82	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	-15	Enclosure	85	
	Air compressor, air flow > 30m3/min	CNP 003	104	3	100%	-15	Enclosure	94	
	Concrete lorry mixer	CNP 044	109	3	50%	-5	Movable Barrier	106	
								Total SWL, dB (A)	109
	Group 2								
	Drill/grinder, hand-held (electric)	CNP 065	98	8	30%	-10	Movable Barrier	92	
	Water pump (electric)	CNP 281	88	6	30%	-15	Enclosure	76	
	Excavator, wheeled/tracked	EPD-01230	99	6	30%	-5	Movable Barrier	97	
	Fork Lift Truck	[2]	104	6	30%	-5	Movable Barrier	102	
	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)	105
								Maximum SWL, dB (A)	109
	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	
Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	2	30%			103	
							Total SWL, dB (A)	117	

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	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)

Mitigated 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	109	155	-52	3	61	61	61	61	61	61	61	61	61	61	61		
2) Zone 4																	
Activity 5 - Superstructure	124	668	-64	3	63	63	63	63	63	63	63						
3) Zone 5																	
Activity 3 - Superstructure	118	407	-60	3	61	61	61	61	61	61	61						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	117	506	-62	3	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	816	-66	3	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
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	846	-67	3	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
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59
Predicted Noise Level of this Project, dB (A)						69	69	69	69	69	69	69	67	67	67	67	69

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.

Mitigated 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	109	199	-54	3	58	58	58	58	58	58	58	58	58	58	58			
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 5 - Superstructure	117	419	-60	3	60	60	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	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 5 - Superstructure	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	
7) South Pier (Optional)																		
Activity 5 - Superstructure	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62	
8) Viewing Platform (Optional)																		
Activity 5 - 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)						69	69	69	70	70	70	67	67	67	67	67	67	70

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.

Mitigated 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	109	133	-50	3	62	62	62	62	62	62	62	62	62	62	62		
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	117	598	-64	3	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	901	-67	3	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		
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)						69	69	69	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.

Mitigated 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	109	432	-61	3	52	52	52	52	52	52	52	52	52	52			
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							
4) West Concrete Batching Plant (Operation)																	
	117	1056	-68	3	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	1351	-71	3	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	
6) West Pier (Optional)																	
	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	
7) South Pier (Optional)																	
	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	
8) Viewing Platform (Optional)																	
	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	
Predicted Noise Level of this Project, dB (A)						63	63	63	63	63	63	63	61	61	61	61	63

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.

Mitigated 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	109	461	-61	3	51	51	51	51	51	51	51	51	51	51	51		
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	117	1136	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51
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	49
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1401	-71	3	49					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	49	49
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	786	-66	3	54	54	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	58	58
Predicted Noise Level of this Project, dB (A)						63	63	63	63	63	63	63	61	61	61	61	63
														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.

Mitigated 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	109	487	-62	3	51	51	51	51	51	51	51	51	51	51			
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 5 - Superstructure	117	1151	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	
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 5 - Superstructure	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	
Predicted Noise Level of this Project, dB (A)						62	62	62	63	63	63	61	61	61	61	63	
														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.

Mitigated 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	109	464	-61	3	51	51	51	51	51	51	51	51	51	51	51		
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	117	1150	-69	3	51	51	51	51	51	51	51	51	51	51	51		
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)						63	63	63	63	63	63	62	62	62	62	63	
														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.

Mitigated 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	109	465	-61	3	51	51	51	51	51	51	51	51	51	51	51		
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	117	1155	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51
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	49	49
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1410	-71	3	49				49	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	49	49
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	775	-66	3	55	55	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	58	58
Predicted Noise Level of this Project, dB (A)						63	63	63	63	63	63	63	61	61	61	61	63
														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.

Mitigated 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	109	362	-59	3	53	53	53	53	53	53	53	53	53	53	53		
2) Zone 4																	
Activity 5 - Superstructure	124	1192	-70	3	58	58	58	58	58	58	58						
3) Zone 5																	
Activity 3 - Superstructure	118	923	-67	3	54	54	54	54	54	54							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	117	1050	-68	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	1315	-70	3	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		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	1350	-71	3	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		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	63	63	63	63		
														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.

Mitigated 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	109	348	-59	3	54	54	54	54	54	54	54	54	54	54	54		
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							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	117	451	-61	3	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	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 5 - Superstructure	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55		
Predicted Noise Level of this Project, dB (A)						67	67	67	67	67	67	67	65	65	65	65	
														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.

Mitigated 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												
1) Zone 2																										
Activity 5 - Superstructure	109	252	-56	3	56	56	56	56	56	56	56	56	56	56	56	56	56									
2) Zone 4																										
Activity 5 - Superstructure	124	1109	-69	3	58	58	58	58	58	58	58	58	58	58	58	58	58									
3) Zone 5																										
Activity 3 - Superstructure	118	845	-67	3	55	55	55	55	55	55	55	55	55	55	55	55	55									
4) West Concrete Batching Plant (Operation)																										
Activity 5 - Superstructure	117	958	-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	1225	-70	3	50					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	50									
6) West Pier (Optional)																										
Activity 5 - Superstructure	117	1265	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50									
7) South Pier (Optional)																										
Activity 5 - Superstructure	117	606	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57									
8) Viewing Platform (Optional)																										
Activity 5 - Superstructure	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)						66	66	66	66	66	66	66	66	65	65	65	65	65	66							

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.

Mitigated 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	109	102	-48	3	64	64	64	64	64	64	64	64	64	64	64			
2) Zone 4																		
Activity 5 - Superstructure	124	883	-67	3	60	60	60	60	60	60	60							
3) Zone 5																		
Activity 3 - Superstructure	118	623	-64	3	57	57	57	57	57	57	57							
4) West Concrete Batching Plant (Operation)																		
Activity 5 - Superstructure	117	741	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55	
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	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1075	-69	3	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	
7) South Pier (Optional)																		
Activity 5 - Superstructure	117	426	-61	3	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	
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	73	73	73	73	73	73	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.

Mitigated 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	109	32	-38	3	74	74	74	74	74	74	74	74	74	74			
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	117	670	-65	3	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	940	-67	3	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		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	975	-68	3	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		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	161	-52	3	66	66	66	66	66	66	66	66	66	66	66		
Predicted Noise Level of this Project, dB (A)						75	75	75	75	75	75	75	75	75	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.

Mitigated 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	109	40	-40	3	72	72	72	72	72	72	72	72	72	72	72	72	72	
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	117	626	-64	3	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	890	-67	3	53				53	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	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	53	
7) South Pier (Optional)																		
Activity 5 - Superstructure	117	257	-56	3	64	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	67	
Predicted Noise Level of this Project, dB (A)						74	74	74	74	74	74	74	74	74	74	74	74	74
																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.

Mitigated 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	109	41	-40	3	72	72	72	72	72	72	72	72	72	72	72	72	72	72								
2) Zone 4																										
Activity 5 - Superstructure	124	664	-64	3	63	63	63	63	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	61	61	61	61								
4) West Concrete Batching Plant (Operation)																										
Activity 5 - Superstructure	117	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	54								
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	791	-66	3	54					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	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	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	63								
Predicted Noise Level of this Project, dB (A)						74	74	74	74	74	74	74	74	74	74	74	74	74								
														2020												
														Min	Max											
														74	74											

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.

Mitigated 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	109	162	-52	3	60	60	60	60	60	60	60	60	60	60	60		
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	117	396	-60	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	681	-65	3	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		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	706	-65	3	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		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	376	-60	3	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						71	71	71	71	71	71	71	69	69	69	69	
														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.

Mitigated 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	109	163	-52	3	60	60	60	60	60	60	60	60	60	60	60	60	60
2) Zone 4																	
Activity 5 - Superstructure	124	530	-62	3	65	65	65	65	65	65	65						
3) Zone 5																	
Activity 3 - Superstructure	118	266	-56	3	65	65	65	65	65	65	65						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	117	420	-60	3	60	60	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	660	-64	3	56				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	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)						74	74	74	74	74	74	73	73	73	73	73	74
																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.