Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Kowloon**

NAP ID: **EH1**

Assessment Floor 5/F

Floor mP.D. 87.3

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Work Zone 7 - Kowloon Portal																																									
Site Clearance	105	272	-56.7	0	3			52	52																																
Construction of New Ventilation Building																																									
Site formation of New Vent. Bldg. at Kln. Portal (including Slope Formation Works)	112	266	-56.5	0	3					59	59	59	59	59	59	59	59	59	59																						
Construction of New Vent. Bldg at Kln. Portal	113	266	-56.5	0	3															60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Demolition of existing Shatin Bound Vent. Bldg and security booth at Kln Portal	111	293	-57.3	0	3																																				
Construction of Portal Structure																																									
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 1)	114	272	-56.7	0	3																			61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 2)	114	272	-56.7	0	3																																				
Lion Rock Tunnel Road Widening																																									
Work Zone 8 - Kowloon Side																																									
Site Clearance, tree felling / transplant, utilities diversion	106	44	-40.9	0	3																																				
Road Widening																																									
Pipe Pile Wall / L-Shape Retaining Wall Installation	108	44	-40.9	0	3																																				
Slope Formation Works	108	44	-40.9	0	3																																				
Demolition of Existing K7A Vehicular Bridge/Footbridge	111	74	-45.4	0	3																																				
Construction of K7A Concrete Upstand Bridge	111	74	-45.4	0	3																																				
Road works																																									
Roadworks (Flexible Pavement & Low Noise Road Surfacing), Signage, Drainage	109	44	-40.9	0	3																																				
Landscaping Works																																									
Landscape Works	100	44	-40.9	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)								52	52	59	59	59	59	59	59	59	59	59	59	60	60	60	60	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64

Construction Activity	2028												2029												2030												2031							
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Work Zone 7 - Kowloon Portal																																												
Site Clearance																																												
Construction of New Ventilation Building																																												
Site formation of New Vent. Bldg. at Kln. Portal (including Slope Formation Works)																																												
Construction of New Vent. Bldg at Kln. Portal	60	60	60	60	60	60	60	60																																				
Demolition of existing Shatin Bound Vent. Bldg and security booth at Kln Portal									57	57																																		
Construction of Portal Structure																																												
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 1)																																												
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 2)																	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61									
Lion Rock Tunnel Road Widening																																												
Work Zone 8 - Kowloon Side																																												
Site Clearance, tree felling / transplant, utilities diversion												68	68	68																														
Road Widening																																												
Pipe Pile Wall / L-Shape Retaining Wall Installation															70	70	70	70	70	70	70	70	70	70	70	70																		
Slope Formation Works																											70	70	70	70	70	70												
Demolition of Existing K7A Vehicular Bridge/Footbridge															69	69																												
Construction of K7A Concrete Upstand Bridge																	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69													
Road works																																												
Roadworks (Flexible Pavement & Low Noise Road Surfacing), Signage, Drainage																																71	71	71	71	71	71	71	71	71				
Landscaping Works																																												
Landscape Works																																									62	62		
Predicted Noise Level, Leq (30mins), dB(A)	60	60	60	60	60	60	60	60	57	57		68	68	68	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	74	71	71	71	71	71	71	71	71	62	62		

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Kowloon**

NAP ID: **MC1**

Assessment Floor 3/F
Floor mP.D. 84.9

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031							
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
						45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Lion Rock Tunnel Road Widening																																									
Work Zone 8 - Kowloon Side																																									
Site Clearance, tree felling / transplant, utilities diversion	106	88	-46.9	0	3				62	62	62																														
Road Widening																																									
Pipe Pile Wall / L-Shape Retaining Wall Installation	108	88	-46.9	0	3							64	64	64	64	64	64	64	64	64	64	64	64																		
Slope Formation Works	108	88	-46.9	0	3																			64	64	64	64	64	64												
Demolition of Existing K7A Vehicular Bridge/Footbridge	111	146	-51.3	0	3							63	63																												
Construction of K7A Concrete Upstand Bridge	111	146	-51.3	0	3									63	63	63	63	63	63	63	63	63	63	63	63	63	63	63													
Road works																																									
Roadworks (Flexible Pavement & Low Noise Road Surfacing), Signage, Drainage	109	88	-46.9	0	3																								65	65	65	65	65	65	65	65	65				
Landscaping Works																																									
Landscape Works	100	88	-46.9	0	3																																	56	56		
Predicted Noise Level, Leq (30mins), dB(A)									62	62	62	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	68	65	65	65	65	65	65	65	65	56	56		

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Kowloon**

NAP ID: **PH2**

Assessment Floor 1/F
Floor mP.D. 76.7

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031							
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
						45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Lion Rock Tunnel Road Widening																																									
Work Zone 8 - Kowloon Side																																									
Site Clearance, tree felling / transplant, utilities diversion	106	52	-42.3	0	3				66	66	66																														
Road Widening																																									
Pipe Pile Wall / L-Shape Retaining Wall Installation	108	52	-42.3	0	3							69	69	69	69	69	69	69	69	69	69	69	69																		
Slope Formation Works	108	52	-42.3	0	3																			68	68	68	68	68	68												
Demolition of Existing K7A Vehicular Bridge/Footbridge	111	172	-52.7	0	3							61	61																												
Construction of K7A Concrete Upstand Bridge	111	172	-52.7	0	3									61	61	61	61	61	61	61	61	61	61	61	61	61	61	61													
Road works																																									
Roadworks (Flexible Pavement & Low Noise Road Surfacing), Signage, Drainage	109	52	-42.3	0	3																								70	70	70	70	70	70	70	70	70				
Landscaping Works																																									
Landscape Works	100	52	-42.3	0	3																																	61	61		
Predicted Noise Level, Leq (30mins), dB(A)									66	66	66	70	70	70	70	70	70	70	70	70	70	70	70	69	69	69	69	69	72	70	70	70	70	70	70	70	70	61	61		

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Kowloon**

NAP ID: **PHD1**

Assessment Floor 1/F

Floor mP.D. 115.7

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Work Zone 7 - Kowloon Portal																																									
Site Clearance	105	86	-46.7	0	3		62	62																																	
Construction of New Ventilation Building																																									
Site formation of New Vent. Bldg. at Kln. Portal (including Slope Formation Works)	112	78	-45.8	0	3					69	69	69	69	69	69	69	69	69	69																						
Construction of New Vent. Bldg at Kln. Portal	113	78	-45.8	0	3														70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Demolition of existing Shatin Bound Vent. Bldg and security booth at Kln Portal	111	119	-49.5	0	3																																				
Demolition of existing Kowrnloon Bound Vent. Bldg	111	162	-52.2	0	3																																				
Construction of Portal Structure																																									
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 1)	114	86	-46.7	0	3																		71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 2)	114	86	-46.7	0	3																																				
Tunneling and Tunnel E&M																																									
Work Zone 6 - Tunnel																																									
Enlargement of Existing Kowloon Bound Tunnel	118	162	-52.2	0	3																																				
Connection of 3 existing water mains to the new pipelines inside the 3rd tunnel																																									
Enlargement of tunnel by drill and break method																																									
Cross Passages (at 100m intervals) by drill and break method and lining construction																																									
Tunnel lining																																									
Tunnel internal structure (OHVD, walkway, road slab and pavement)																																									
Tunnel E&M and TCSS installation																																									
Demolition of Partition Wall in New Third Tunnel																																									
Decommission, Closure and Rehabilitation of existing Shatin bound Tunnel to 'E' Tunnel	114	122	-49.7	0	3																																				
Lion Rock Tunnel Road Widening																																									
Work Zone 8 - Kowloon Side																																									
Site Clearance, tree felling / transplant, utilities diversion	106	66	-44.4	0	3																																				
Road Widening																																									
Pipe Pile Wall / L-Shape Retaining Wall Installation	108	66	-44.4	0	3																																				
Slope Formation Works	108	66	-44.4	0	3																																				
Demolition of Existing K7A Vehicular Bridge/Footbridge	111	105	-48.4	0	3																																				
Construction of K7A Concrete Upstand Bridge	111	105	-48.4	0	3																																				
Road works																																									
Roadworks (Flexible Pavement & Low Noise Road Surfacing), Signage, Drainage	109	66	-44.4	0	3																																				
Landscaping Works																																									
Landscape Works	100	66	-44.4	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)							62	62	69	69	69	69	69	69	69	69	69	69	69	70	70	70	70	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74

Construction Activity	2028												2029												2030											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Work Zone 7 - Kowloon Portal																																				
Site Clearance																																				
Construction of New Ventilation Building																																				
Site formation of New Vent. Bldg. at Kln. Portal (including Slope Formation Works)																																				
Construction of New Vent. Bldg at Kln. Portal	70	70	70	70	70	70	70	70																												
Demolition of existing Shatin Bound Vent. Bldg and security booth at Kln Portal									64	64																										
Demolition of existing Kowrnloon Bound Vent. Bldg																																				
Construction of Portal Structure																																				
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 1)																																				
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 2)																	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	
Tunneling and Tunnel E&M																																				
Work Zone 6 - Tunnel																																				
Enlargement of Existing Kowloon Bound Tunnel																69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Connection of 3 existing water mains to the new pipelines inside the 3rd tunnel																																				
Enlargement of tunnel by drill and break method																																				
Cross Passages (at 100m intervals) by drill and break method and lining construction																																				
Tunnel lining																																				
Tunnel internal structure (OHVD, walkway, road slab and pavement)																																				
Tunnel E&M and TCSS installation																																				
Demolition of Partition Wall in New Third Tunnel																																				
Decommission, Closure and Rehabilitation of existing Shatin bound Tunnel to 'E' Tunnel																																				
Lion Rock Tunnel Road Widening																																				
Work Zone 8 - Kowloon Side																																				
Site Clearance, tree felling / transplant, utilities diversion												64	64	64																						
Road Widening																																				
Pipe Pile Wall / L-Shape Retaining Wall Installation															67	67	67	67	67	67	67	67	67	67	67	67										
Slope Formation Works																										66	66	66	66	66	66					
Demolition of Existing K7A Vehicular Bridge/Footbridge															66	66																				
Construction of K7A Concrete Upstand Bridge																	66	66	66	66	66	66	66	66	66	66	66	66	66	66						
Road works																																				
Roadworks (Flexible Pavement & Low Noise Road Surfacing), Signage, Drainage																														68	68	68	68	68	68	68
Landscaping Works																																				
Landscape Works																																				
Predicted Noise Level, Leq (30mins), dB(A)	70	70	70	70	70	70	70	70	64	64		64	64	64	70	72	72	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	74	74	74	72

Construction Activity	2031												2032												2033												2034											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Work Zone 7 - Kowloon Portal																																																
Site Clearance																																																
Construction of New Ventilation Building																																																
Site formation of New Vent. Bldg. at Kln. Portal (including Slope Formation Works)																																																
Construction of New Vent. Bldg at Kln. Portal																																																
Demolition of existing Shatin Bound Vent. Bldg and security booth at Kln Portal																																																
Demolition of existing Kowrnloon Bound Vent. Bldg						62																																										
Construction of Portal Structure																																																
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 1)																																																
Construction of Portal Structure and Slope Formation Works at Kln. Portal (Phase 2)																																																
Tunneling and Tunnel E&M																																																
Work Zone 6 - Tunnel																																																
Enlargement of Existing Kowloon Bound Tunnel	69	69	69	69	69	69	69	69															69	69	69																								
Connection of 3 existing water mains to the new pipelines inside the 3rd tunnel																																																
Enlargement of tunnel by drill and break method																																																
Cross Passages (at 100m intervals) by drill and break method and lining construction																																																
Tunnel lining																																																
Tunnel internal structure (OHVD, walkway, road slab and pavement)																																																
Tunnel E&M and TCSS installation																																																
Demolition of Partition Wall in New Third Tunnel																																																
Decommission, Closure and Rehabilitation of existing Shatin bound Tunnel to 'E' Tunnel																																					67	67	67	67	67	67	67	67	67	67	67	67
Lion Rock Tunnel Road Widening																																																	
Work Zone 8 - Kowloon Side																																																	
Site Clearance, tree felling / transplant, utilities diversion																																																	
Road Widening																																																	
Pipe Pile Wall / L-Shape Retaining Wall Installation																																																	
Slope Formation Works																																																	
Demolition of Existing K7A Vehicular Bridge/Footbridge																																																	
Construction of K7A Concrete Upstand Bridge																																																	
Road works																																																	
Roadworks (Flexible Pavement & Low Noise Road Surfacing), Signage, Drainage																																																	
Landscaping Works																																																	
Landscape Works					59	59																																											
Predicted Noise Level, Leq (30mins), dB(A)	72	72	72	72	69	69	70	69	69	69	69												69	69	69												67	67	67	67	67	67	67	67	67	67	67	67

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **WSH2**

Assessment Floor 3/F
Floor mP.D. 30.3

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031												2032												2033											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																				
Work Zone 1																																																																				
Preparatory works																																																																				
Site Clearance and Tree felling / transplant	106	46	-41.2	0	3				68	68	68	68	68	68																																																							
Reprovisioning of Footbridge NF74				0	3																																																																
Construction of temporary footbridge	107	99	-47.9	0	3				62	62	62	62	62	62	62	62	62	62																																																			
Demolition of existing foodbridge	102	99	-47.9	0	3														57	57	57	57	57																																														
Construction of new footbridge (including demolition of temporary footbridge)	107	99	-47.9	0	3																														62	62	62	62	62	62	62	62	62	62	62																								
Road Widening and Installtion of Noise Barrier				0	3																																																																
Widening works at north bound				0	3																																																																
Slope Formation / Upgrading Works	108	46	-41.2	0	3										70	70	70	70	70	70	70	70																																															
Foundation of Noise Barrier	107	46	-41.2	0	3																		69	69	69	69	69	69	69	69	69	69																																					
Pile Cap, L-retaining Wall and Formation of new road	107	46	-41.2	0	3																				69	69	69	69	69	69	69	69	69	69																															
Utilities Diversion	104	46	-41.2	0	3																						66	66	66	66	66	66	66	66																															
Erection of structural steel post for noise barrier	100	46	-41.2	0	3																										62	62	62	62																															
Widening works at central divider																																																																				
Foundation of Noise Barrier	107	46	-41.2	0	3																																																			69	69	69	69	69	69								
Pile Cap and Footing	107	46	-41.2	0	3																																																					69	69	69	69	69	69						
Erection of structural steel post for noise barrier	100	46	-41.2	0	3																																																							62	62	62	62	62					
Widening works at south bound																																																																				
Slope Formation / Upgrading Works	108	46	-41.2	0	3																														70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70																			
Foundation of Noise Barrier	107	46	-41.2	0	3																																										69	69	69	69	69	69	69																
Pile Cap and Formation of new road	107	46	-41.2	0	3																																												69	69	69	69	69	69	69														
Utilities Diversion	104	46	-41.2	0	3																																														66	66	66	66	66														
Erection of structural steel post for noise barrier	100	46	-41.2	0	3																																																62	62	62														
Installation of steel member and noise barrier panel																																																																				
Erection of steel member and noise barrier panel at north bound	100	46	-41.2	0	3																																																										62	62	62	62	62		
Erection of steel member and noise barrier panel at south bound	100	46	-41.2	0	3																																																												62	62	62	62	62
Roadworks																																																																				
Roadworks at north bound																																																																				
Road Drainage	103	46	-41.2	0	3																																																											65	65				
Road Surfacing	109	46	-41.2	0	3																																																												71	71			
Roadlighting and E&M works	96	46	-41.2	0	3																																																												58	58			
Roadworks at south bound																																																																				
Road Drainage	103	46	-41.2	0	3																																																														65	65	
Road Surfacing	109	46	-41.2	0	3																																																															71	71
Roadlighting and E&M works	96	46	-41.2	0	3																																																															58	58
Landscaping Works																																																																				
Landscaping works at north bound	100	46	-41.2	0	3																																																											62	62	62			
Landscaping works at south bound	100	46	-41.2	0	3																																																														62	62	62
Predicted Noise Level, Leq (30mins), dB(A)								69	69	69	69	69	69	71	71	71	71	70	70	70	70	69	69	72	72	73	73	73	73	73	73	71	71	71	71	71	71	71	71	71	71	71	71	71	70	73	73	74	74	73	73	73	71	71	69	69	72	72	72	72	70	70	69	73	73	69	73	72

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **STTNV1**

Assessment Floor G/F
Floor mP.D. 35.2

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031												2032												2033											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																				
Work Zone 1																																																																				
Preparatory works																																																																				
Site Clearance and Tree felling / transplant	106	45	-41	0	3				68	68	68	68	68	68																																																				
Reprovisioning of Footbridge NF74				0	3																																																														
Construction of temporary footbridge	107	96	-47.6	0	3				62	62	62	62	62	62	62	62	62	62																																															
Demolition of existing foodbridge	102	96	-47.6	0	3														57	57	57	57	57																																										
Construction of new footbridge (including demolition of temporary footbridge)	107	96	-47.6	0	3																														62	62	62	62	62	62	62	62	62	62	62																								
Road Widening and Installtion of Noise Barrier				0	3																																																														
Widening works at north bound				0	3																																																														
Slope Formation / Upgrading Works	108	45	-41	0	3										70	70	70	70	70	70	70	70																																												
Foundation of Noise Barrier	107	45	-41	0	3																		69	69	69	69	69	69	69	69	69	69																																				
Pile Cap, L-retaining Wall and Formation of new road	107	45	-41	0	3																				69	69	69	69	69	69	69	69	69	69																																			
Utilities Diversion	104	45	-41	0	3																						66	66	66	66	66	66	66	66																																			
Erection of structural steel post for noise barrier	100	45	-41	0	3																										62	62	62	62																																			
Widening works at central divider																																																																				
Foundation of Noise Barrier	107	45	-41	0	3																																																		69	69	69	69	69	69											
Pile Cap and Footing	107	45	-41	0	3																																																				69	69	69	69	69	69						
Erection of structural steel post for noise barrier	100	45	-41	0	3																																																						62	62	62	62	62						
Widening works at south bound																																																																				
Slope Formation / Upgrading Works	108	45	-41	0	3																														70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70																			
Foundation of Noise Barrier	107	45	-41	0	3																																									69	69	69	69	69	69	69																		
Pile Cap and Formation of new road	107	45	-41	0	3																																											69	69	69	69	69	69	69																
Utilities Diversion	104	45	-41	0	3																																													66	66	66	66	66																
Erection of structural steel post for noise barrier	100	45	-41	0	3																																															62	62	62																
Installation of steel member and noise barrier panel																																																																				
Erection of steel member and noise barrier panel at north bound	100	45	-41	0	3																																																							62	62	62	62	62		
Erection of steel member and noise barrier panel at south bound	100	45	-41	0	3																																																									62	62	62	62	62
Roadworks																																																																				
Roadworks at north bound																																																																				
Road Drainage	103	45	-41	0	3																																																								65	65				
Road Surfacing	109	45	-41	0	3																																																									71	71			
Roadlighting and E&M works	96	45	-41	0	3																																																									58	58			
Roadworks at south bound																																																																					
Road Drainage	103	45	-41	0	3																																																										65	65	
Road Surfacing	109	45	-41	0	3																																																											71	71
Roadlighting and E&M works	96	45	-41	0	3																																																											58	58
Landscaping Works																																																																				
Landscaping works at north bound	100	45	-41	0	3																																																							62	62	62			
Landscaping works at south bound	100	45	-41	0	3																																																										62	62	62
Predicted Noise Level, Leq (30mins), dB(A)									69	69	69	69	69	69	71	71	71	71	70	70	70	70	69	69	72	72	73	73	73	73	73	73	71	71	71	71	71	71	71	71	71	71	71	71	71	70	73	73	74	74	73	73	73	71	71	69	69	72	72	72	72	70	70	69	73	73	69	73	72

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **STTNV2**

Assessment Floor G/F
Floor mP.D. 44

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031												2032												2033											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																					
Work Zone 1																																																																					
Preparatory works																																																																					
Site Clearance and Tree felling / transplant	106	32	-38.1	0	3				71	71	71	71	71	71																																																									
Reprovisioning of Footbridge NF74				0	3																																																																		
Construction of temporary footbridge	107	67	-44.5	0	3				65	65	65	65	65	65	65	65	65	65																																																					
Demolition of existing foodbridge	102	67	-44.5	0	3														61	61	61	61	61																																																
Construction of new footbridge (including demolition of temporary footbridge)	107	67	-44.5	0	3																													65	65	65	65	65	65	65	65	65	65	65	65																									
Road Widening and Installtion of Noise Barrier				0	3																																																																
Widening works at north bound				0	3																																																																
Slope Formation / Upgrading Works	108	32	-38.1	0	3									73	73	73		73	73	73	73	73																																																	
Foundation of Noise Barrier	107	32	-38.1	0	3																		72	72	72	72	72	72	72	72	72	72																																											
Pile Cap, L-retaining Wall and Formation of new road	107	32	-38.1	0	3																				72	72	72	72	72	72	72	72	72	72																																											
Utilities Diversion	104	32	-38.1	0	3																					69	69	69	69	69	69	69	69	69																																											
Erection of structural steel post for noise barrier	100	32	-38.1	0	3																									65	65	65	65	65																																											
Widening works at central divider																																																																										
Foundation of Noise Barrier	107	32	-38.1	0	3																																																																	
Pile Cap and Footing	107	32	-38.1	0	3																																																																	
Erection of structural steel post for noise barrier	100	32	-38.1	0	3																																																																	
Widening works at south bound																																																																										
Slope Formation / Upgrading Works	108	32	-38.1	0	3																													73	73	73	73	73	73	73	73	73	73	73	73																									
Foundation of Noise Barrier	107	32	-38.1	0	3																																									72	72	72	72	72	72	72	72																	
Pile Cap and Formation of new road	107	32	-38.1	0	3																																											72	72	72	72	72	72	72	72															
Utilities Diversion	104	32	-38.1	0	3																																													69	69	69	69	69													
Erection of structural steel post for noise barrier	100	32	-38.1	0	3																																															65	65	65													
Installation of steel member and noise barrier panel																																																																					
Erection of steel member and noise barrier panel at north bound	100	32	-38.1	0	3																																																															
Erection of steel member and noise barrier panel at south bound	100	32	-38.1	0	3																																																															
Roadworks																																																																					
Roadworks at north bound																																																																					
Road Drainage	103	32	-38.1	0	3																																																															
Road Surfacing	109	32	-38.1	0	3																																																															
Roadlighting and E&M works	96	32	-38.1	0	3																																																															
Roadworks at south bound																																																																					
Road Drainage	103	32	-38.1	0	3																																																															
Road Surfacing	109	32	-38.1	0	3																																																															
Roadlighting and E&M works	96	32	-38.1	0	3																																																															
Landscaping Works																																																																					
Landscaping works at north bound	100	32	-38.1	0	3																																																															
Landscaping works at south bound	100	32	-38.1	0	3																																																															
Predicted Noise Level, Leq (30mins), dB(A)									72	72	72	72	72	72	74	74	74	74	73	73	73	73	72	72	75	75	76	76	76	76	76	76	76	74	74	74	74	74	74	74	74	74	74	74	73	76	76	77	77	76	76	76	74	74	72	72	75	75	75	75	73	73	72	76	76	72	76	75

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: Shatin

NAP ID: STTNV5

Assessment Floor G/F

Floor mP.D. 79.8

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	###	2029												2030												2031												2032												2033											
						D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																		
Work Zone 1																																																																		
Preparatory works																																																																		
Site Clearance and Tree felling / transplant	106	34	-38.6	0	3	70	70	70	70	70	70																																																						
Reprovisioning of Footbridge NF74				0	3																																																													
Construction of temporary footbridge	107	143	-51.1	0	3	59	59	59	59	59	59	59	59	59	59																																																		
Demolition of existing foodbridge	102	143	-51.1	0	3											54	54	54	54	54																																														
Construction of new footbridge (including demolition of temporary footbridge)	107	143	-51.1	0	3																											59	59	59	59	59	59	59	59	59	59	59																								
Road Widening and Installtion of Noise Barrier				0	3																																																													
Widening works at north bound				0	3																																																													
Slope Formation / Upgrading Works	108	34	-38.6	0	3							72	72	72	72	72	72	72	72																																															
Foundation of Noise Barrier	107	34	-38.6	0	3															71	71	71	71	71	71	71	71	71	71																																					
Pile Cap, L-retaining Wall and Formation of new road	107	34	-38.6	0	3																	71	71	71	71	71	71	71	71	71	71																																			
Utilities Diversion	104	34	-38.6	0	3																			69	69	69	69	69	69	69	69																																			
Erection of structural steel post for noise barrier	100	34	-38.6	0	3																							65	65	65	65																																			
Widening works at central divider																																																																		
Foundation of Noise Barrier	107	34	-38.6	0	3																																																71	71	71	71	71	71									
Pile Cap and Footing	107	34	-38.6	0	3																																																		71	71	71	71	71	71						
Erection of structural steel post for noise barrier	100	34	-38.6	0	3																																																				65	65	65	65	65					
Widening works at south bound																																																																	
Slope Formation / Upgrading Works	108	34	-38.6	0	3																											72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72																			
Foundation of Noise Barrier	107	34	-38.6	0	3																																								71	71	71	71	71	71	71																
Pile Cap and Formation of new road	107	34	-38.6	0	3																																										71	71	71	71	71	71	71														
Utilities Diversion	104	34	-38.6	0	3																																												69	69	69	69	69														
Erection of structural steel post for noise barrier	100	34	-38.6	0	3																																														65	65	65														
Installation of steel member and noise barrier panel																																																																		
Erection of steel member and noise barrier panel at north bound	100	34	-38.6	0	3																																																						65	65	65	65	65		
Erection of steel member and noise barrier panel at south bound	100	34	-38.6	0	3																																																								65	65	65	65	65
Roadworks																																																																		
Roadworks at north bound																																																																		
Road Drainage	103	34	-38.6	0	3																																																						67	67				
Road Surfacing	109	34	-38.6	0	3																																																							73	73			
Roadlighting and E&M works	96	34	-38.6	0	3																																																							60	60			
Roadworks at south bound																																																																		
Road Drainage	103	34	-38.6	0	3																																																									67	67	
Road Surfacing	109	34	-38.6	0	3																																																										73	73
Roadlighting and E&M works	96	34	-38.6	0	3																																																										60	60
Landscaping Works																																																																		
Landscaping works at north bound	100	34	-38.6	0	3																																																						65	65	65			
Landscaping works at south bound	100	34	-38.6	0	3																																																									65	65	65
Work Zone 2																																																																		
Preparatory works																																																																		
Site Clearance and Tree felling / transplant	106	218	-54.8	0	3																							54	54	54	54	54	54																																	
Road Widening and Installtion of Noise Barrier																																																																		
Widening works at north bound																																																																		
Slope Formation / Upgrading Works	108	218	-54.8	0	3																													56	56	56	56	56	56																										
Foundation of Noise Barrier	106	218	-54.8	0	3																																				54	54	54	54	54	54																						
Pile Cap and Formation of new road	107	218	-54.8	0	3																																						55	55	55	55	55	55																				
Utilities Diversion	104	218	-54.8	0	3																																								53	53	53	53																				
Erection of structural steel post for noise barrier	100	218	-54.8	0	3																																									48	48	48																				
Widening works at south bound																																																																		
Slope Formation / Upgrading Works	108	218	-54.8	0	3																																												56	56	56	56	56	56	56	56												
Roadworks																																																																		
Roadworks at north bound																																																																		
Road Drainage	106	218	-54.8	0	3																																																			54	54	54									
Road Surfacing	109	218	-54.8	0	3																																																				57	57	57								
Roadlighting and E&M works	96	218	-54.8	0	3																																																					44	44	44							
Roadworks at south bound																																																																		
Road Drainage	106	218	-54.8	0	3																																																							54	54	54				
Road Surfacing	109	218	-54.8	0	3																																																								57	57	57			
Roadlighting and E&M works	96	218	-54.8	0	3																																																								44	44	44		
Landscaping Works																																																																		
Landscaping works at north bound	100	218	-54.8	0	3																																																										48	48	48
Predicted Noise Level, Leq (30mins), dB(A)						70	70	70	70	70	70	72	72	72	72	72	72	72	72	71	71	74	74	75	75	75	75	76	76	74	74	72	72	72	72	72	72	72	72	72	72	72	72	75	75	76	76	75	75	76	74	74	71	71	74	74	75	75	72	73	72	76	75	72	75	74

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **STW2**

Assessment Floor 1/F
Floor mP.D. 44.8

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031												2032												2033											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																					
Work Zone 1																																																																					
Preparatory works																																																																					
Site Clearance and Tree felling / transplant	106	45	-41	0	3				68	68	68	68	68	68																																																						
Reprovisioning of Footbridge NF74				0	3																																																																
Construction of temporary footbridge	107	60	-43.5	0	3				66	66	66	66	66	66	66	66	66	66																																																		
Demolition of existing foodbridge	102	60	-43.5	0	3														62	62	62	62	62																																														
Construction of new footbridge (including demolition of temporary footbridge)	107	60	-43.5	0	3																														66	66	66	66	66	66	66	66	66	66	66																								
Road Widening and Installtion of Noise Barrier				0	3																																																																
Widening works at north bound				0	3																																																																
Slope Formation / Upgrading Works	108	45	-41	0	3										70	70	70	70	70	70	70	70																																														
Foundation of Noise Barrier	107	45	-41	0	3																		69	69	69	69	69	69	69	69	69	69																																					
Pile Cap, L-retaining Wall and Formation of new road	107	45	-41	0	3																				69	69	69	69	69	69	69	69	69	69																																			
Utilities Diversion	104	45	-41	0	3																						66	66	66	66	66	66	66	66																																			
Erection of structural steel post for noise barrier	100	45	-41	0	3																										62	62	62	62																																			
Widening works at central divider																																																																					
Foundation of Noise Barrier	107	45	-41	0	3																																																				69	69	69	69	69	69								
Pile Cap and Footing	107	45	-41	0	3																																																						69	69	69	69	69	69						
Erection of structural steel post for noise barrier	100	45	-41	0	3																																																								62	62	62	62	62					
Widening works at south bound																																																																					
Slope Formation / Upgrading Works	108	45	-41	0	3																														70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70																			
Foundation of Noise Barrier	107	45	-41	0	3																																										69	69	69	69	69	69	69																
Pile Cap and Formation of new road	107	45	-41	0	3																																												69	69	69	69	69	69	69														
Utilities Diversion	104	45	-41	0	3																																														66	66	66	66	66														
Erection of structural steel post for noise barrier	100	45	-41	0	3																																																62	62	62														
Installation of steel member and noise barrier panel																																																																					
Erection of steel member and noise barrier panel at north bound	100	45	-41	0	3																																																									62	62	62	62	62		
Erection of steel member and noise barrier panel at south bound	100	45	-41	0	3																																																											62	62	62	62	62
Roadworks																																																																					
Roadworks at north bound																																																																					
Road Drainage	103	45	-41	0	3																																																									65	65				
Road Surfacing	109	45	-41	0	3																																																										71	71			
Roadlighting and E&M works	96	45	-41	0	3																																																										58	58			
Roadworks at south bound																																																																					
Road Drainage	103	45	-41	0	3																																																												65	65	
Road Surfacing	109	45	-41	0	3																																																													71	71
Roadlighting and E&M works	96	45	-41	0	3																																																													58	58
Landscaping Works																																																																					
Landscaping works at north bound	100	45	-41	0	3																																																									62	62	62			
Landscaping works at south bound	100	45	-41	0	3																																																												62	62	62
Predicted Noise Level, Leq (30mins), dB(A)									70	70	70	70	70	70	71	71	71	71	71	71	71	71	70	69	72	72	73	73	73	73	73	73	71	71	71	71	71	71	71	71	71	71	71	71	71	70	73	73	74	74	73	73	73	71	71	69	69	72	72	72	72	70	70	69	73	73	69	73	72

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: Shatin

NAP ID: STW6

Assessment Floor 1/F
Floor mP.D. 50.6

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031												2032												2033											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																
Work Zone 1																																																																
Preparatory works																																																																
Site Clearance and Tree felling / transplant	106	73	-45.2	0	3				64	64	64	64	64	64																																																					
Reprovisioning of Footbridge NF74				0	3																																																												
Construction of temporary footbridge	107	212	-54.5	0	3				55	55	55	55	55	55	55	55	55	55																																																	
Demolition of existing foodbridge	102	212	-54.5	0	3														51	51	51	51	51																																										
Construction of new footbridge (including demolition of temporary footbridge)	107	212	-54.5	0	3																													55	55	55	55	55	55	55	55	55	55	55																								
Road Widening and Installtion of Noise Barrier				0	3																																																												
Widening works at north bound				0	3																																																												
Slope Formation / Upgrading Works	108	73	-45.2	0	3										66	66	66	66	66	66	66	66																																												
Foundation of Noise Barrier	107	73	-45.2	0	3																		65	65	65	65	65	65	65	65	65	65																																		
Pile Cap, L-retaining Wall and Formation of new road	107	73	-45.2	0	3																				65	65	65	65	65	65	65	65	65	65																																
Utilities Diversion	104	73	-45.2	0	3																						62	62	62	62	62	62	62	62																																		
Erection of structural steel post for noise barrier	100	73	-45.2	0	3																										58	58	58	58																																		
Widening works at central divider																																																																	
Foundation of Noise Barrier	107	73	-45.2	0	3																																																			65	65	65	65	65	65								
Pile Cap and Footing	107	73	-45.2	0	3																																																				65	65	65	65	65	65						
Erection of structural steel post for noise barrier	100	73	-45.2	0	3																																																					58	58	58	58	58					
Widening works at south bound																																																																
Slope Formation / Upgrading Works	108	73	-45.2	0	3																														66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66																			
Foundation of Noise Barrier	107	73	-45.2	0	3																																									65	65	65	65	65	65	65																
Pile Cap and Formation of new road	107	73	-45.2	0	3																																											65	65	65	65	65	65	65														
Utilities Diversion	104	73	-45.2	0	3																																													62	62	62	62	62														
Erection of structural steel post for noise barrier	100	73	-45.2	0	3																																															58	58	58														
Installation of steel member and noise barrier panel																																																																
Erection of steel member and noise barrier panel at north bound	100	73	-45.2	0	3																																																							58	58	58	58	58		
Erection of steel member and noise barrier panel at south bound	100	73	-45.2	0	3																																																									58	58	58	58	58
Roadworks																																																																	
Roadworks at north bound																																																																	
Road Drainage	103	73	-45.2	0	3																																																							61	61				
Road Surfacing	109	73	-45.2	0	3																																																								67	67			
Roadlighting and E&M works	96	73	-45.2	0	3																																																								54	54			
Roadworks at south bound																																																																	
Road Drainage	103	73	-45.2	0	3																																																										61	61	
Road Surfacing	109	73	-45.2	0	3																																																											67	67
Roadlighting and E&M works	96	73	-45.2	0	3																																																											54	54
Landscaping Works																																																																	
Landscaping works at north bound	100	73	-45.2	0	3																																																						58	58	58			
Landscaping works at south bound	100	73	-45.2	0	3																																																										58	58	58
Work Zone 2																																																																	
Preparatory works																																																																	
Site Clearance and Tree felling / transplant	106	174	-52.8	0	3																									56	56	56	56	56	56																																		
Road Widening and Installtion of Noise Barrier																																																																	
Widening works at north bound																																																																	
Slope Formation / Upgrading Works	108	174	-52.8	0	3																															58	58	58	58	58	58																												
Foundation of Noise Barrier	106	174	-52.8	0	3																																					56	56	56	56	56	56																						
Pile Cap and Formation of new road	107	174	-52.8	0	3																																							57	57	57	57	57	57																				
Utilities Diversion	104	174	-52.8	0	3																																									55	55	55	55																				
Erection of structural steel post for noise barrier	100	174	-52.8	0	3																																										50	50	50																				
Widening works at south bound																																																																	
Slope Formation / Upgrading Works	108	174	-52.8	0	3																																													58	58	58	58	58	58	58	58												
Roadworks																																																																	
Roadworks at north bound																																																																	
Road Drainage	106	174	-52.8	0	3																																																		56	56	56									
Road Surfacing	109	174	-52.8	0	3																																																			59	59	59								
Roadlighting and E&M works	96	174	-52.8	0	3																																																				46	46	46							
Roadworks at south bound																																																																	
Road Drainage	106	174	-52.8	0	3																																																						56	56	56				
Road Surfacing	109	174	-52.8	0	3																																																							59	59	59			
Roadlighting and E&M works	96	174	-52.8	0	3																																																								46	46	46		
Landscaping Works																																																																	
Landscaping works at north bound	100	174	-52.8	0	3																																																										50	50	50
Predicted Noise Level, Leq (30mins), dB(A)									65	65	65	65	65	65	66	66	66	66	66	66	66	66	65	65	68	68	69	69	69	69	70	70	68	68	67	67	67	67	67	67	67	67	67	67	67	67	69	69	71	70	69	69	70	68	68	66	66	68	69	69	69	66	67	66	70	69	65	69	68

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **STGPS2**

Assessment Floor 5/F

Floor mP.D. 46.9

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																					
Work Zone 1																					
Preparatory works																					
Site Clearance and Tree felling / transplant	106	81	-46.2	0	3				63	63	63	63	63	63							
Reprovisioning of Footbridge NF74				0	3																
Construction of temporary footbridge	107	278	-56.9	0	3				53	53	53	53	53	53	53	53	53	53			
Demolition of existing foodbridge	102	278	-56.9	0	3														48	48	48
Construction of new footbridge (including demolition of temporary footbridge)	107	278	-56.9	0	3																
Road Widening and Installtion of Noise Barrier				0	3																
Widening works at north bound				0	3																
Slope Formation / Upgrading Works	108	81	-46.2	0	3										65	65	65	65	65	65	65
Foundation of Noise Barrier	107	81	-46.2	0	3																
Pile Cap, L-retaining Wall and Formation of new road	107	81	-46.2	0	3																
Utilities Diversion	104	81	-46.2	0	3																
Erection of structural steel post for noise barrier	100	81	-46.2	0	3																
Widening works at central divider																					
Foundation of Noise Barrier	107	81	-46.2	0	3																
Pile Cap and Footing	107	81	-46.2	0	3																
Erection of structural steel post for noise barrier	100	81	-46.2	0	3																
Widening works at south bound																					
Slope Formation / Upgrading Works	108	81	-46.2	0	3																
Foundation of Noise Barrier	107	81	-46.2	0	3																
Pile Cap and Formation of new road	107	81	-46.2	0	3																
Utilities Diversion	104	81	-46.2	0	3																
Erection of structural steel post for noise barrier	100	81	-46.2	0	3																
Installation of steel member and noise barrier panel																					
Erection of steel member and noise barrier panel at north bound	100	81	-46.2	0	3																
Erection of steel member and noise barrier panel at south bound	100	81	-46.2	0	3																
Roadworks																					
Roadworks at north bound																					
Road Drainage	103	81	-46.2	0	3																
Road Surfacing	109	81	-46.2	0	3																
Roadlighting and E&M works	96	81	-46.2	0	3																
Roadworks at south bound																					
Road Drainage	103	81	-46.2	0	3																
Road Surfacing	109	81	-46.2	0	3																
Roadlighting and E&M works	96	81	-46.2	0	3																
Landscaping Works																					
Landscaping works at north bound	100	81	-46.2	0	3																
Landscaping works at south bound	100	81	-46.2	0	3																
Work Zone 2																					
Preparatory works																					
Site Clearance and Tree felling / transplant	106	117	-49.3	0	3																
Road Widening and Installtion of Noise Barrier																					
Widening works at north bound																					
Slope Formation / Upgrading Works	108	117	-49.3	0	3																
Foundation of Noise Barrier	106	117	-49.3	0	3																
Pile Cap and Formation of new road	107	117	-49.3	0	3																
Utilities Diversion	104	117	-49.3	0	3																
Erection of structural steel post for noise barrier	100	117	-49.3	0	3																
Widening works at south bound																					
Slope Formation / Upgrading Works	108	117	-49.3	0	3																
Roadworks																					
Roadworks at north bound																					
Road Drainage	106	117	-49.3	0	3																
Road Surfacing	109	117	-49.3	0	3																
Roadlighting and E&M works	96	117	-49.3	0	3																
Roadworks at south bound																					
Road Drainage	106	117	-49.3	0	3																
Road Surfacing	109	117	-49.3	0	3																
Roadlighting and E&M works	96	117	-49.3	0	3																
Landscaping Works																					
Landscaping works at north bound	100	117	-49.3	0	3																
Predicted Noise Level, Leq (30mins), dB(A)									63	63	63	63	63	63	65	65	65	65	65	65	65

Construction Activity	2030												2031											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																								
Work Zone 1																								
Preparatory works																								
Site Clearance and Tree felling / transplant																								
Reprovisioning of Footbridge NF74																								
Construction of temporary footbridge																								
Demolition of existing foodbridge	48	48																						
Construction of new footbridge (including demolition of temporary footbridge)														53	53	53	53	53	53	53	53	53	53	53
Road Widening and Installtion of Noise Barrier																								
Widening works at north bound																								
Slope Formation / Upgrading Works	65																							
Foundation of Noise Barrier		64	64	64	64	64	64	64	64	64	64													
Pile Cap, L-retaining Wall and Formation of new road				64	64	64	64	64	64	64	64	64	64											
Utilities Diversion						61	61	61	61	61	61	61	61											
Erection of structural steel post for noise barrier										57	57	57	57											
Widening works at central divider																								
Foundation of Noise Barrier																								
Pile Cap and Footing																								
Erection of structural steel post for noise barrier																								
Widening works at south bound																								
Slope Formation / Upgrading Works														65	65	65	65	65	65	65	65	65	65	65
Foundation of Noise Barrier																								
Pile Cap and Formation of new road																								
Utilities Diversion																								
Erection of structural steel post for noise barrier																								
Installation of steel member and noise barrier panel																								
Erection of steel member and noise barrier panel at north bound																								
Erection of steel member and noise barrier panel at south bound																								
Roadworks																								
Roadworks at north bound																								
Road Drainage																								
Road Surfacing																								
Roadlighting and E&M works																								
Roadworks at south bound																								
Road Drainage																								
Road Surfacing																								
Roadlighting and E&M works																								
Landscaping Works																								
Landscaping works at north bound																								
Landscaping works at south bound																								
Work Zone 2																								
Preparatory works																								
Site Clearance and Tree felling / transplant									59	59	59	59	59	59										
Road Widening and Installtion of Noise Barrier																								
Widening works at north bound																								
Slope Formation / Upgrading Works															62	62	62	62	62	62				
Foundation of Noise Barrier																					60	60	60	60
Pile Cap and Formation of new road																							61	61
Utilities Diversion																								
Erection of structural steel post for noise barrier																								
Widening works at south bound																								
Slope Formation / Upgrading Works																								
Roadworks																								
Roadworks at north bound																								
Road Drainage																								
Road Surfacing																								
Roadlighting and E&M works																								
Roadworks at south bound																								
Road Drainage																								
Road Surfacing																								
Roadlighting and E&M works																								
Landscaping Works																								
Landscaping works at north bound																								
Predicted Noise Level, Leq (30mins), dB(A)	65	64	64	67	67	68	68	68	68	69	69	67	67	66	67	67	67	67	67	67	66	66	67	67

Construction Activity	2032												2033											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																								
Work Zone 1																								
Preparatory works																								
Site Clearance and Tree felling / transplant																								
Reprovisioning of Footbridge NF74																								
Construction of temporary footbridge																								
Demolition of existing foodbridge																								
Construction of new footbridge (including demolition of temporary footbridge)																								
Road Widening and Installtion of Noise Barrier																								
Widening works at north bound																								
Slope Formation / Upgrading Works																								
Foundation of Noise Barrier																								
Pile Cap, L-retaining Wall and Formation of new road																								
Utilities Diversion																								
Erection of structural steel post for noise barrier																								
Widening works at central divider																								
Foundation of Noise Barrier											64	64	64	64	64	64								
Pile Cap and Footing													64	64	64	64	64	64						
Erection of structural steel post for noise barrier															57	57	57	57	57					
Widening works at south bound																								
Slope Formation / Upgrading Works	65	65	65	65	65																			
Foundation of Noise Barrier		64	64	64	64	64	64	64																
Pile Cap and Formation of new road				64	64	64	64	64	64	64														
Utilities Diversion						61	61	61	61	61														
Erection of structural steel post for noise barrier								57	57	57														
Installation of steel member and noise barrier panel																								
Erection of steel member and noise barrier panel at north bound																		57	57	57	57	57		
Erection of steel member and noise barrier panel at south bound																				57	57	57	57	57
Roadworks																								
Roadworks at north bound																								
Road Drainage																			60	60				
Road Surfacing																				66	66			
Roadlighting and E&M works																				53	53			
Roadworks at south bound																								
Road Drainage																						60	60	
Road Surfacing																							66	66
Roadlighting and E&M works																							53	53
Landscaping Works																								
Landscaping works at north bound																			57	57	57			
Landscaping works at south bound																						57	57	57
Work Zone 2																								
Preparatory works																								
Site Clearance and Tree felling / transplant																								
Road Widening and Installtion of Noise Barrier																								
Widening works at north bound																								
Slope Formation / Upgrading Works																								
Foundation of Noise Barrier	60	60																						
Pile Cap and Formation of new road	61	61	61	61																				
Utilities Diversion	58	58	58	58																				
Erection of structural steel post for noise barrier		54	54	54																				
Widening works at south bound																								
Slope Formation / Upgrading Works					62	62	62	62	62	62	62	62												
Roadworks																								
Roadworks at north bound																								
Road Drainage													60	60	60									
Road Surfacing														63	63	63								
Roadlighting and E&M works															50	50	50							
Roadworks at south bound																								
Road Drainage																		60	60	60				
Road Surfacing																			63	63	63			
Roadlighting and E&M works																				50	50	50		
Landscaping Works																								
Landscaping works at north bound																						54	54	54
Predicted Noise Level, Leq (30mins), dB(A)	68	69	69	70	70	69	69	69	68	68	66	66	68	69	69	69	65	67	67	70	69	65	68	67

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: Shatin

NAP ID: KTV2

Assessment Floor G/F

Floor mP.D. 21.6

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2028				2029												2030												2031												2032												2033											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																				
Work Zone 1																																																																				
Preparatory works																																																																				
Site Clearance and Tree felling / transplant	106	130	-50.3	0	3				58	58	58	58	58	58																																																							
Road Widening and Installtion of Noise Barrier				0	3																																																															
Widening works at north bound				0	3																																																															
Slope Formation / Upgrading Works	108	130	-50.3	0	3										61	61	61	61	61	61	61	61																																														
Foundation of Noise Barrier	107	130	-50.3	0	3																		60	60	60	60	60	60	60	60	60	60																																						
Pile Cap, L-retaining Wall and Formation of new road	107	130	-50.3	0	3																				60	60	60	60	60	60	60	60	60	60																																				
Utilities Diversion	104	130	-50.3	0	3																						57	57	57	57	57	57	57	57																																				
Erection of structural steel post for noise barrier	100	130	-50.3	0	3																										53	53	53	53																																				
Widening works at central divider																																																																				
Foundation of Noise Barrier	107	130	-50.3	0	3																																																				60	60	60	60	60	60								
Pile Cap and Footing	107	130	-50.3	0	3																																																					60	60	60	60	60	60						
Erection of structural steel post for noise barrier	100	130	-50.3	0	3																																																							53	53	53	53	53					
Widening works at south bound																																																																				
Slope Formation / Upgrading Works	108	130	-50.3	0	3																															61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61																			
Foundation of Noise Barrier	107	130	-50.3	0	3																																												60	60	60	60	60	60	60																
Pile Cap and Formation of new road	107	130	-50.3	0	3																																														60	60	60	60	60	60	60														
Utilities Diversion	104	130	-50.3	0	3																																																57	57	57	57	57														
Erection of structural steel post for noise barrier	100	130	-50.3	0	3																																																		53	53	53														
Installation of steel member and noise barrier panel																																																																				
Erection of steel member and noise barrier panel at north bound	100	130	-50.3	0	3																																																											53	53	53	53	53		
Erection of steel member and noise barrier panel at south bound	100	130	-50.3	0	3																																																													53	53	53	53	53
Roadworks																																																																				
Roadworks at north bound																																																																				
Road Drainage	103	130	-50.3	0	3																																																												56	56				
Road Surfacing	109	130	-50.3	0	3																																																													62	62			
Roadlighting and E&M works	96	130	-50.3	0	3																																																													49	49			
Roadworks at south bound																																																																				
Road Drainage	103	130	-50.3	0	3																																																														56	56	
Road Surfacing	109	130	-50.3	0	3																																																															62	62
Roadlighting and E&M works	96	130	-50.3	0	3																																																															49	49
Landscaping Works																																																																				
Landscaping works at north bound	100	130	-50.3	0	3																																																											53	53	53			
Landscaping works at south bound	100	130	-50.3	0	3																																																													53	53	53
Work Zone 2																																																																				
Preparatory works																																																																				
Site Clearance and Tree felling / transplant	106	83	-46.4	0	3																									62	62	62	62	62	62																																				
Road Widening and Installtion of Noise Barrier																																																																				
Widening works at north bound																																																																				
Slope Formation / Upgrading Works	108	83	-46.4	0	3																																64	64	64	64	64	64																												
Foundation of Noise Barrier	106	83	-46.4	0	3																																						63	63	63	63	63	63																						
Pile Cap and Formation of new road	107	83	-46.4	0	3																																								64	64	64	64	64	64																				
Utilities Diversion	104	83	-46.4	0	3																																										61	61	61	61																				
Erection of structural steel post for noise barrier	100	83	-46.4	0	3																																											56	56	56																				
Widening works at south bound																																																																				
Slope Formation / Upgrading Works	108	83	-46.4	0	3																																														64	64	64	64	64	64	64	64												
Roadworks																																																																				
Roadworks at north bound																																																																				
Road Drainage	106	83	-46.4	0	3																																																							63	63	63									
Road Surfacing	109	83	-46.4	0	3																																																								65	65	65								
Roadlighting and E&M works	96	83	-46.4	0	3																																																									53	53	53							
Roadworks at south bound																																																																				
Road Drainage	106	83	-46.4	0	3																																																											63	63	63				
Road Surfacing	109	83	-46.4	0	3																																																												65	65	65			
Roadlighting and E&M works	96	83	-46.4	0	3																																																													53	53	53		
Landscaping Works																																																																				
Landscaping works at north bound	100	83	-46.4	0	3																																																															57	57	57
Predicted Noise Level, Leq (30mins), dB(A)									58	58	58	58	58	58	61	61	61	61	61	61	61	61	60	60	63	63	64	64	64	66	66	66	65	65	65	66	66	66	66	66	66	65	65	68	68	68	69	68	69	68	67	67	67	66	66	65	65	66	69	69	67	61	65	68	69	68	62	65	64

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **MWG1**

Assessment Floor 3/F
Floor mP.D. 31.6

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2030				2031												2032												2033											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																													
Work Zone 2																																													
Preparatory works																																													
Site Clearance and Tree felling / transplant	106	62	-43.8	0	3	65	65	65	65	65	65																																		
Road Widening and Installtion of Noise Barrier																																													
Widening works at north bound																																													
Slope Formation / Upgrading Works	108	62	-43.8	0	3							67	67	67	67	67	67																												
Foundation of Noise Barrier	106	62	-43.8	0	3													65	65	65	65	65	65																						
Pile Cap and Formation of new road	107	62	-43.8	0	3															66	66	66	66	66	66																				
Utilities Diversion	104	62	-43.8	0	3																	64	64	64	64																				
Erection of structural steel post for noise barrier	100	62	-43.8	0	3																		59	59	59																				
Widening works at south bound																																													
Slope Formation / Upgrading Works	108	62	-43.8	0	3																					67	67	67	67	67	67	67	67												
Roadworks																																													
Roadworks at north bound																																													
Road Drainage	106	62	-43.8	0	3																													65	65	65									
Road Surfacing	109	62	-43.8	0	3																														68	68	68								
Roadlighting and E&M works	96	62	-43.8	0	3																															55	55	55							
Roadworks at south bound																																													
Road Drainage	106	62	-43.8	0	3																																	65	65	65					
Road Surfacing	109	62	-43.8	0	3																																		68	68	68				
Roadlighting and E&M works	96	62	-43.8	0	3																																			55	55	55			
Landscaping Works																																													
Landscaping works at north bound	100	62	-43.8	0	3																																						59	59	59
Predicted Noise Level, Leq (30mins), dB(A)						65	65	65	65	65	65	67	67	67	67	67	67	65	65	69	69	70	70	69	69	67	67	67	67	67	67	67	67	65	70	70	68	55	65	70	70	68	60	59	59

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **KTV5**

Assessment Floor 3/F
Floor mP.D. 43.5

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																									
Work Zone 2																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	29	-37.2	0	3																																				
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound																																									
Slope Formation / Upgrading Works	108	29	-37.2	0	3																																				
Foundation of Noise Barrier	106	29	-37.2	0	3																																				
Pile Cap and Formation of new road	107	29	-37.2	0	3																																				
Utilities Diversion	104	29	-37.2	0	3																																				
Erection of structural steel post for noise barrier	100	29	-37.2	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	29	-37.2	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	29	-37.2	0	3																																				
Road Surfacing	109	29	-37.2	0	3																																				
Roadlighting and E&M works	96	29	-37.2	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	29	-37.2	0	3																																				
Road Surfacing	109	29	-37.2	0	3																																				
Roadlighting and E&M works	96	29	-37.2	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	29	-37.2	0	3																																				
Work Zone 3																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	246	-55.8	0	3	53	53	53	53	53	53																														
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound (including slip road)																																									
Slope Formation / Upgrading Works	108	246	-55.8	0	3									55	55	55	55	55	55	55	55																				
Foundation of Noise Barrier	106	246	-55.8	0	3																	53	53	53	53	53	53	53	53	53	53	53	53	53								
Pile Cap, L-retaining Wall and Formation of new road	107	246	-55.8	0	3																		54	54	54	54	54	54	54	54	54	54	54	54	54	54	54				
Utilities Diversion	104	246	-55.8	0	3																					52	52	52	52	52	52	52	52	52	52	52	52				
Erection of structural steel post for noise barrier	100	246	-55.8	0	3																									47	47	47	47	47	47	47	47				
Widening works at central divider																																									
Foundation of Noise Barrier	106	246	-55.8	0	3																																				
Pile Cap and Footing	107	246	-55.8	0	3																																				
Erection of structural steel post for noise barrier	100	246	-55.8	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	246	-55.8	0	3																															55	55	55	55	55	55
Foundation of Noise Barrier	106	246	-55.8	0	3																																				
Pile Cap and Formation of new road	107	246	-55.8	0	3																																				
Utilities Diversion	104	246	-55.8	0	3																																				
Erection of structural steel post for noise barrier	100	246	-55.8	0	3																																				
Installation of steel member and noise barrier panel																																									
Erection of steel member and noise barrier panel at north bound	100	246	-55.8	0	3																																				
Erection of steel member and noise barrier panel at south bound	100	246	-55.8	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	246	-55.8	0	3																																				
Road Surfacing	109	246	-55.8	0	3																																				
Roadlighting and E&M works	96	246	-55.8	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	246	-55.8	0	3																																				
Road Surfacing	109	246	-55.8	0	3																																				
Roadlighting and E&M works	96	246	-55.8	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	246	-55.8	0	3																																				
Landscaping works at south bound	100	246	-55.8	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)						53	53	53	53	53	53			55	55	55	55	55	55	55	55	53	53	57	57	58	58	58	58	58	58	58	58	57	57	55	55	55	55	55	55

Construction Activity	2028												2029												2030											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																				
Work Zone 2																																				
Preparatory works																																				
Site Clearance and Tree felling / transplant																																	72	72	72	72
Road Widening and Installtion of Noise Barrier																																				
Widening works at north bound																																				
Slope Formation / Upgrading Works																																				
Foundation of Noise Barrier																																				
Pile Cap and Formation of new road																																				
Utilities Diversion																																				
Erection of structural steel post for noise barrier																																				
Widening works at south bound																																				
Slope Formation / Upgrading Works																																				
Roadworks																																				
Roadworks at north bound																																				
Road Drainage																																				
Road Surfacing																																				
Roadlighting and E&M works																																				
Roadworks at south bound																																				
Road Drainage																																				
Road Surfacing																																				
Roadlighting and E&M works																																				
Landscaping Works																																				
Landscaping works at north bound																																				
Landscaping works at south bound																																				
Predicted Noise Level, Leq (30mins), dB(A)	55	55	55	55	55	55	53	57	57	58	58	58	58	58	57	57	47	53	53	57	57	57	57	57	55	55	54	58	57	49	48	54	72	72	72	72

Construction Activity	2031												2032												2033											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																				
Work Zone 2																																				
Preparatory works																																				
Site Clearance and Tree felling / transplant	72	72																																		
Road Widening and Installtion of Noise Barrier																																				
Widening works at north bound																																				
Slope Formation / Upgrading Works			74	74	74	74	74	74																												
Foundation of Noise Barrier									72	72	72	72	72	72																						
Pile Cap and Formation of new road											73	73	73	73	73	73																				
Utilities Diversion													70	70	70	70																				
Erection of structural steel post for noise barrier														66	66	66																				
Widening works at south bound																																				
Slope Formation / Upgrading Works																	74	74	74	74	74	74	74	74												
Roadworks																																				
Roadworks at north bound																																				
Road Drainage																									72	72	72									
Road Surfacing																										75	75	75								
Roadlighting and E&M works																											62	62	62							
Roadworks at south bound																																				
Road Drainage																													72	72	72					
Road Surfacing																														75	75	75				
Roadlighting and E&M works																															62	62	62			
Landscaping Works																																				
Landscaping works at north bound																																	66	66	66	
Landscaping works at south bound																																				
Predicted Noise Level, Leq (30mins), dB(A)	72	72	74	74	74	74	74	74	72	72	76	76	77	77	75	75	74	74	74	74	74	74	74	74	72	77	77	75	62	72	77	77	75	67	66	66

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **HMKR1**

Assessment Floor G/F
Floor mP.D. 25.2

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																									
Work Zone 2																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	187	-53.4	0	3																																				
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound																																									
Slope Formation / Upgrading Works	108	187	-53.4	0	3																																				
Foundation of Noise Barrier	106	187	-53.4	0	3																																				
Pile Cap and Formation of new road	107	187	-53.4	0	3																																				
Utilities Diversion	104	187	-53.4	0	3																																				
Erection of structural steel post for noise barrier	100	187	-53.4	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	187	-53.4	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	187	-53.4	0	3																																				
Road Surfacing	109	187	-53.4	0	3																																				
Roadlighting and E&M works	96	187	-53.4	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	187	-53.4	0	3																																				
Road Surfacing	109	187	-53.4	0	3																																				
Roadlighting and E&M works	96	187	-53.4	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	187	-53.4	0	3																																				
Work Zone 3																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	54	-42.6	0	3	66	66	66	66	66	66																														
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound (including slip road)																																									
Slope Formation / Upgrading Works	108	54	-42.6	0	3									68	68	68	68	68	68	68	68																				
Foundation of Noise Barrier	106	54	-42.6	0	3													66	66	66	66	66	66	66	66																
Pile Cap, L-retaining Wall and Formation of new road	107	54	-42.6	0	3															67	67	67	67	67	67																
Utilities Diversion	104	54	-42.6	0	3																	65	65	65	65																
Erection of structural steel post for noise barrier	100	54	-42.6	0	3																																				
Widening works at central divider																																									
Foundation of Noise Barrier	106	54	-42.6	0	3																																				
Pile Cap and Footing	107	54	-42.6	0	3																																				
Erection of structural steel post for noise barrier	100	54	-42.6	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	54	-42.6	0	3																																				
Foundation of Noise Barrier	106	54	-42.6	0	3																																				
Pile Cap and Formation of new road	107	54	-42.6	0	3																																				
Utilities Diversion	104	54	-42.6	0	3																																				
Erection of structural steel post for noise barrier	100	54	-42.6	0	3																																				
Installation of steel member and noise barrier panel																																									
Erection of steel member and noise barrier panel at north bound	100	54	-42.6	0	3																																				
Erection of steel member and noise barrier panel at south bound	100	54	-42.6	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	54	-42.6	0	3																																				
Road Surfacing	109	54	-42.6	0	3																																				
Roadlighting and E&M works	96	54	-42.6	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	54	-42.6	0	3																																				
Road Surfacing	109	54	-42.6	0	3																																				
Roadlighting and E&M works	96	54	-42.6	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	54	-42.6	0	3																																				
Landscaping works at south bound	100	54	-42.6	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)						66	66	66	66	66	66	68	68	68	68	68	68	68	68	68	68	66	66	70	70	71	71	71	71	71	71	71	71	71	70	70	68	68	68	68	68

Construction Activity	2028												2029												2030											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																				
Work Zone 2																																				
Preparatory works																																				
Site Clearance and Tree felling / transplant																																				
Road Widening and Installtion of Noise Barrier																																				
Widening works at north bound																																				
Slope Formation / Upgrading Works																																				
Foundation of Noise Barrier																																				
Pile Cap and Formation of new road																																				
Utilities Diversion																																				
Erection of structural steel post for noise barrier																																				
Widening works at south bound																																				
Slope Formation / Upgrading Works																																				
Foundation of Noise Barrier																																				
Pile Cap and Formation of new road																																				
Utilities Diversion																																				
Erection of structural steel post for noise barrier																																				
Installation of steel member and noise barrier panel																																				
Erection of steel member and noise barrier panel at north bound																																				
Erection of steel member and noise barrier panel at south bound																																				
Roadworks																																				
Roadworks at north bound																																				
Road Drainage																																				
Road Surfacing																																				
Roadlighting and E&M works																																				
Roadworks at south bound																																				
Road Drainage																																				
Road Surfacing																																				
Roadlighting and E&M works																																				
Landscaping Works																																				
Landscaping works at north bound																																				
Landscaping works at south bound																																				
Predicted Noise Level, Leq (30mins), dB(A)	68	68	68	68	68	68	68	68	68	68	66	66	70	70	71	71	71	70	70	70	70	70	70	70	68	68	68	72	70	62	61	68	72	70	55	55

Construction Activity	2031												2032												2033											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																				
Work Zone 2																																				
Preparatory works																																				
Site Clearance and Tree felling / transplant	55	55																																		
Road Widening and Installtion of Noise Barrier																																				
Widening works at north bound																																				
Slope Formation / Upgrading Works			57	57	57	57	57	57																												
Foundation of Noise Barrier										56	56	56	56	56																						
Pile Cap and Formation of new road												57	57	57	57	57	57																			
Utilities Diversion													54	54	54	54																				
Erection of structural steel post for noise barrier														49	49	49																				
Widening works at south bound																																				
Slope Formation / Upgrading Works																	57	57	57	57	57	57	57	57												
Roadworks																																				
Roadworks at north bound																																				
Road Drainage																									56	56	56									
Road Surfacing																									58	58	58									
Roadlighting and E&M works																										46	46	46								
Roadworks at south bound																																				
Road Drainage																													56	56	56					
Road Surfacing																														58	58	58				
Roadlighting and E&M works																															46	46	46			
Landscaping Works																																				
Landscaping works at north bound					61	61	61	61	61																											
Landscaping works at south bound										61	61	61																								
Predicted Noise Level, Leq (30mins), dB(A)	55	55	57	57	62	62	62	62	62	62	63	63	61	61	59	59	57	57	57	57	57	57	57	57	56	60	60	58	46	56	60	60	58	51	50	50

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **WWG5**

Assessment Floor 1/F

Floor mP.D. 65

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																									
Work Zone 3																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	53	-42.5	0	3		66	66	66	66	66	66																													
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound (including slip road)																																									
Slope Formation / Upgrading Works	108	53	-42.5	0	3									68	68	68	68	68	68	68	68																				
Foundation of Noise Barrier	106	53	-42.5	0	3																	66	66	66	66	66	66	66	66	66	66	66	66	66								
Pile Cap, L-retaining Wall and Formation of new road	107	53	-42.5	0	3																		67	67	67	67	67	67	67	67	67	67	67	67	67	67					
Utilities Diversion	104	53	-42.5	0	3																					65	65	65	65	65	65	65	65	65	65	65	65				
Erection of structural steel post for noise barrier	100	53	-42.5	0	3																									60	60	60	60	60	60	60					
Widening works at central divider																																									
Foundation of Noise Barrier	106	53	-42.5	0	3																																				
Pile Cap and Footing	107	53	-42.5	0	3																																				
Erection of structural steel post for noise barrier	100	53	-42.5	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	53	-42.5	0	3																																				
Foundation of Noise Barrier	106	53	-42.5	0	3																																				
Pile Cap and Formation of new road	107	53	-42.5	0	3																																				
Utilities Diversion	104	53	-42.5	0	3																																				
Erection of structural steel post for noise barrier	100	53	-42.5	0	3																																				
Installation of steel member and noise barrier panel																																									
Erection of steel member and noise barrier panel at north bound	100	53	-42.5	0	3																																				
Erection of steel member and noise barrier panel at south bound	100	53	-42.5	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	53	-42.5	0	3																																				
Road Surfacing	109	53	-42.5	0	3																																				
Roadlighting and E&M works	96	53	-42.5	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	53	-42.5	0	3																																				
Road Surfacing	109	53	-42.5	0	3																																				
Roadlighting and E&M works	96	53	-42.5	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	53	-42.5	0	3																																				
Landscaping works at south bound	100	53	-42.5	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)							66	66	66	66	66	66		68	68	68	68	68	68	68	68	66	66	70	70	71	71	71	71	71	71	71	71	71	70	70	68	68	68	68	68

Construction Activity	2028												2029												2030												2031							
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
Shartin Side																																												
Work Zone 3																																												
Preparatory works																																												
Site Clearance and Tree felling / transplant																																												
Road Widening and Installtion of Noise Barrier																																												
Widening works at north bound (including slip road)																																												
Slope Formation / Upgrading Works																																												
Foundation of Noise Barrier																																												
Pile Cap, L-retaining Wall and Formation of new road																																												
Utilities Diversion																																												
Erection of structural steel post for noise barrier																																												
Widening works at central divider																																												
Foundation of Noise Barrier																	66	66	66	66	66	66	66																					
Pile Cap and Footing																			67	67	67	67	67	67	67	67																		
Erection of structural steel post for noise barrier																						60	60	60	60																			
Widening works at south bound																																												
Slope Formation / Upgrading Works	68	68	68	68	68	68																																						
Foundation of Noise Barrier							66	66	66	66	66	66	66	66																														
Pile Cap and Formation of new road									67	67	67	67	67	67	67	67																												
Utilities Diversion												65	65	65	65	65																												
Erection of structural steel post for noise barrier														60	60	60	60																											
Installation of steel member and noise barrier panel																																												
Erection of steel member and noise barrier panel at north bound																										61	61	61	61	61														
Erection of steel member and noise barrier panel at south bound																															61	61	61											
Roadworks																																												
Roadworks at north bound																																												
Road Drainage																										67	67																	
Road Surfacing																											69	69																
Roadlighting and E&M works																												57	57															
Roadworks at south bound																																												
Road Drainage																															67	67												
Road Surfacing																																	69	69										
Roadlighting and E&M works																																	57	57										
Landscaping Works																																												
Landscaping works at north bound																																						61	61	61	61	61		
Landscaping works at south bound																																											61	61
Predicted Noise Level, Leq (30mins), dB(A)	68	68	68	68	68	68	68	66	66	70	70	71	71	71	70	70	60	66	66	70	70	70	70	70	68	68	68	72	70	62	61	68	72	70				61	61	61	61	61	61	61

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **WWG8**

Assessment Floor 1/F
Floor mP.D. 65

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027												2028												2029												2030												2031											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																																									
Work Zone 3																																																																																									
Preparatory works																																																																																									
Site Clearance and Tree felling / transplant	106	25	-35.9	0	3			73	73	73	73	73	73																																																																												
Road Widening and Installtion of Noise Barrier																																																																																								
Widening works at north bound (including slip road)																																																																																									
Slope Formation / Upgrading Works	108	25	-35.9	0	3									75	75	75	75	75	75	75	75																																																																						
Foundation of Noise Barrier	106	25	-35.9	0	3																	73	73	73	73	73	73	73	73	73	73	73	73	73																																																								
Pile Cap, L-retaining Wall and Formation of new road	107	25	-35.9	0	3																			74	74	74	74	74	74	74	74	74	74	74	74	74																																																					
Utilities Diversion	104	25	-35.9	0	3																					72	72	72	72	72	72	72	72	72	72	72																																																						
Erection of structural steel post for noise barrier	100	25	-35.9	0	3																										67	67	67	67	67	67																																																						
Widening works at central divider																																																																																									
Foundation of Noise Barrier	106	25	-35.9	0	3																																																							73	73	73	73	73	73	73																								
Pile Cap and Footing	107	25	-35.9	0	3																																																									74	74	74	74	74	74	74																						
Erection of structural steel post for noise barrier	100	25	-35.9	0	3																																																												67	67	67	67																						
Widening works at south bound																																																																																									
Slope Formation / Upgrading Works	108	25	-35.9	0	3																																75	75	75	75	75	75	75	75	75	75	75	75																																									
Foundation of Noise Barrier	106	25	-35.9	0	3																																														73	73	73	73	73	73	73																																		
Pile Cap and Formation of new road	107	25	-35.9	0	3																																																74	74	74	74	74	74	74																																
Utilities Diversion	104	25	-35.9	0	3																																																		72	72	72	72	72																																
Erection of structural steel post for noise barrier	100	25	-35.9	0	3																																																			67	67	67	67																															
Installation of steel member and noise barrier panel																																																																																										
Erection of steel member and noise barrier panel at north bound	100	25	-35.9	0	3																																																																	68	68	68	68	68																					
Erection of steel member and noise barrier panel at south bound	100	25	-35.9	0	3																																																																						68	68	68																		
Roadworks																																																																																									
Roadworks at north bound																																																																																									
Road Drainage	106	25	-35.9	0	3																																																																	73	73																									
Road Surfacing	109	25	-35.9	0	3																																																																		76	76																								
Roadlighting and E&M works	96	25	-35.9	0	3																																																																		63	63																							
Roadworks at south bound																																																																																									
Road Drainage	106	25	-35.9	0	3																																																																					73	73																			
Road Surfacing	109	25	-35.9	0	3																																																																					76	76																		
Roadlighting and E&M works	96	25	-35.9	0	3																																																																				63	63																		
Landscaping Works																																																																																									
Landscaping works at north bound	100	25	-35.9	0	3																																																																													67	67	67	67	67			
Landscaping works at south bound	100	25	-35.9	0	3																																																																																	67	67	67
Work Zone 4																																																																																									
Preparatory works																																																																																									
Site Clearance and Tree felling / transplant	106	276	-56.8	0	3																														52	52	52																																																								
Road Widening and Installtion of Noise Barrier																																																																																									
Widening works at north bound																																																																																										
Slope Formation / Upgrading Works	108	276	-56.8	0	3																																	54	54	54	54	54	54	54	54																																																
Foundation of Noise Barrier	104	276	-56.8	0	3																																									50	50	50	50	50																																										
Pile Cap, L-retaining Wall and Formation of new road	107	276	-56.8	0	3																																											53	53	53	53	53																																								
Utilities Diversion	104	276	-56.8	0	3																																													51	51	51																																								
Erection of structural steel post for noise barrier	100	276	-56.8	0	3																																														46	46																																								
Widening works at central divider																																																																																										
Foundation of Noise Barrier	104	276	-56.8	0	3																																																															50	50	50	50	50																					
Pile Cap and Footing	107	276	-56.8	0	3																																																																	53	53	53	53	53																			
Erection of structural steel post for noise barrier	100	276	-56.8	0	3																																																																				46	46																			
Widening works at south bound																																																																																									
Slope Formation / Upgrading Works	108	276	-56.8	0	3																																																54	54	54	54	54	54	54	54																																					
Foundation of Noise Barrier	104	276	-56.8	0	3																																																								50	50	50	50	50																														
Formation of new road	107	276	-56.8	0	3																																																										53	53	53	53	53																												
Utilities Diversion	104	276	-56.8	0	3																																																											51	51	51																												
Erection of structural steel post for noise barrier	100	276	-56.8	0	3																																																												46	46																												
Installation of steel member and noise barrier panel																																																																																											
Erection of steel member and noise barrier panel at north bound	100	276	-56.8	0	3																																																																							47	47	47												
Erection of steel member and noise barrier panel at south bound	100	276	-56.8	0	3																																																																										47	47										
Roadworks																																																																																										
Roadworks at north bound																																																																																										
Road Drainage	106	276	-56.8	0	3																																																																							52	52													
Road Surfacing	107	276	-56.8	0	3																																																																								54	54												
Roadlighting and E&M works	96	276	-56.8	0	3																																																																								42	42												
Roadworks at south bound																																																																																										
Road Drainage	106	276	-56.8	0	3																																																																									52	52										
Road Surfacing	107	276	-56.8	0	3																																																																									54	54									
Roadlighting and E&M works	96	276	-56.8	0	3																																																																									42	42									
Landscaping Works																																																																																											
Landscaping works at north bound	100	276	-56.8	0	3																																																																																			46	46
Predicted Noise Level, Leq (30mins), dB(A)								73	73	73	73	73	73	75	75	75	75	75	75	75	75	73	73	77	77	78	78	78	78	78	78	78	78	78	77	77	75	75	75	75	75	75	75	75	75	75	75	75	73	73	77	77	78	78	78	77	77	67	73	73	77	77	77	77	77	75	75	74	78	77	69	68	74	78	77	57	55	53	57	54		67	67	67	67	67	67	67	67

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **JG4**

Assessment Floor 4/F

Floor mP.D. 75.3

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027												2028												2029												2030												2031											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Shartin Side																																																																																								
Work Zone 3																																																																																								
Preparatory works																																																																																								
Site Clearance and Tree felling / transplant	106	188	-53.5	0	3			55	55	55	55	55	55																																																																									
Road Widening and Installtion of Noise Barrier																																																																																								
Widening works at north bound (including slip road)																																																																																								
Slope Formation / Upgrading Works	108	188	-53.5	0	3									57	57	57	57	57	57	57	57																																																																		
Foundation of Noise Barrier	106	188	-53.5	0	3																	55	55	55	55	55	55	55	55	55	55	55	55	55																																																					
Pile Cap, L-retaining Wall and Formation of new road	107	188	-53.5	0	3																			56	56	56	56	56	56	56	56	56	56	56	56	56																																																			
Utilities Diversion	104	188	-53.5	0	3																					54	54	54	54	54	54	54	54	54	54	54																																																					
Erection of structural steel post for noise barrier	100	188	-53.5	0	3																										49	49	49	49	49	49																																																					
Widening works at central divider																																																																																									
Foundation of Noise Barrier	106	188	-53.5	0	3																																																				55	55	55	55	55	55	55																								
Pile Cap and Footing	107	188	-53.5	0	3																																																					56	56	56	56	56	56	56																						
Erection of structural steel post for noise barrier	100	188	-53.5	0	3																																																								49	49	49	49																						
Widening works at south bound																																																																																									
Slope Formation / Upgrading Works	108	188	-53.5	0	3																																57	57	57	57	57	57	57	57	57	57	57	57																																													
Foundation of Noise Barrier	106	188	-53.5	0	3																																													55	55	55	55	55	55	55																																				
Pile Cap and Formation of new road	107	188	-53.5	0	3																																															56	56	56	56	56	56	56																																				
Utilities Diversion	104	188	-53.5	0	3																																																	54	54	54	54	54																																				
Erection of structural steel post for noise barrier	100	188	-53.5	0	3																																																		49	49	49	49																																			
Installation of steel member and noise barrier panel																																																																																									
Erection of steel member and noise barrier panel at north bound	100	188	-53.5	0	3																																																															50	50	50	50	50																		
Erection of steel member and noise barrier panel at south bound	100	188	-53.5	0	3																																																																				50	50	50															
Roadworks																																																																																									
Roadworks at north bound																																																																																										
Road Drainage	106	188	-53.5	0	3																																																															56	56																											
Road Surfacing	109	188	-53.5	0	3																																																																58	58																										
Roadlighting and E&M works	96	188	-53.5	0	3																																																																	46	46																									
Roadworks at south bound																																																																																									
Road Drainage	106	188	-53.5	0	3																																																																				56	56																			
Road Surfacing	109	188	-53.5	0	3																																																																					58	58																		
Roadlighting and E&M works	96	188	-53.5	0	3																																																																					46	46																		
Landscaping Works																																																																																									
Landscaping works at north bound	100	188	-53.5	0	3																																																																													50	50	50	50	50			
Landscaping works at south bound	100	188	-53.5	0	3																																																																																		50	50	50
Work Zone 4																																																																																									
Preparatory works																																																																																								
Site Clearance and Tree felling / transplant	106	37	-39.3	0	3																														69	69	69																																																									
Road Widening and Installtion of Noise Barrier																																																																																								
Widening works at north bound																																																																																											
Slope Formation / Upgrading Works	108	37	-39.3	0	3																																	72	72	72	72	72	72	72	72																																																
Foundation of Noise Barrier	104	37	-39.3	0	3																																									68	68	68	68	68																																											
Pile Cap, L-retaining Wall and Formation of new road	107	37	-39.3	0	3																																											71	71	71	71	71																																										
Utilities Diversion	104	37	-39.3	0	3																																													68	68	68																																											
Erection of structural steel post for noise barrier	100	37	-39.3	0	3																																														64	64																																											
Widening works at central divider																																																																																									
Foundation of Noise Barrier	104	37	-39.3	0	3																																																															68	68	68	68	68																		
Pile Cap and Footing	107	37	-39.3	0	3																																																																71	71	71	71	71																
Erection of structural steel post for noise barrier	100	37	-39.3	0	3																																																																			64	64																
Widening works at south bound																																																																																									
Slope Formation / Upgrading Works	108	37	-39.3	0	3																																																72	72	72	72	72	72	72	72																																		
Foundation of Noise Barrier	104	37	-39.3	0	3																																																							68	68	68	68	68																								
Formation of new road	107	37	-39.3	0	3																																																									71	71	71	71	71																						
Utilities Diversion	104	37	-39.3	0	3																																																											68	68	68																						
Erection of structural steel post for noise barrier	100	37	-39.3	0	3																																																												64	64																						
Installation of steel member and noise barrier panel																																																																																										
Erection of steel member and noise barrier panel at north bound	100	37	-39.3	0	3																																																																						64	64	64												
Erection of steel member and noise barrier panel at south bound	100	37	-39.3	0	3																																																																									64	64										
Roadworks																																																																																										
Roadworks at north bound																																																																																											
Road Drainage	106	37	-39.3	0	3																																																																							70	70													
Road Surfacing	107	37	-39.3	0	3																																																																								71	71												
Roadlighting and E&M works	96	37	-39.3	0	3																																																																								60	60												
Roadworks at south bound																																																																																										
Road Drainage	106	37	-39.3	0	3																																																																										70	70										
Road Surfacing	107	37	-39.3	0	3																																																																											71	71									
Roadlighting and E&M works	96	37	-39.3	0	3																																																																											60	60									
Landscaping Works																																																																																									
Landscaping works at north bound	100	37	-39.3	0	3																																																																																			64	64
Predicted Noise Level, Leq (30mins), dB(A)								55	55	55	55	55	55	57	57	57	57	57	57	57	57	55	55	59	59	60	60	60	60	60	60	60	60	60	69	69	69	72	72	72	72	72	72	72	72	68	68	73	73	74	73	73	72	72	72	72	72	72	72	72	68	68	73	73	74	73	73	68	69	73	73	73	72	72	71	74	72	71	74	71		50	50	50	50	50	50	64	64

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **HP1**

Assessment Floor 3/F

Floor mP.D. 76.2

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Tunnel Buildings and Associated Road Works at Portals																																									
Work Zone 5 - Shatin Portal																																									
Site Clearance	105	106	-48.5	0	3			60	60																																
Construction of New Vehicular Bridge																																									
Construction of New Vehicular-cum-Footbridge at Toll Plaza	113	106	-48.5	0	3					68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68														
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge	116	106	-48.5	0	3											70	70	70																							
Construction of New Administration Building																																									
Partially demolition of existing toll plaza	108	106	-48.5	0	3					63																															
Construction of New Administration Building	113	106	-48.5	0	3						68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68			
Demolition of Existing Administration Building	108	295	-57.4	0	3																																	54	54		
Demolition of Existing E&M building next to Toll Plaza	108	295	-57.4	0	3																																	54			
Construction of New Ventilation Building																																									
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure	108	295	-57.4	0	3																																				
Demolition of Existing footbridge	108	295	-57.4	0	3																																				
Toll Plaza Formation																																									
Road widening works at Toll Plaza	117	106	-48.5	0	3					72	72	72	72	72	72	72	72	72																							
Construction of New Car Parking Facilities	116	106	-48.5	0	3																																				
Reconfiguration and Roadworks for Toll Plaza	116	106	-48.5	0	3																																				
Construction of associated structure of new footbridge	116	106	-48.5	0	3																																				
Relocation of Surge Tank																																									
Construction of surge tank	107	106	-48.5	0	3									61	61	61	61	61	61	61	61	61	61	61	61																
Connection of 3 existing water mains to surge tank	116	106	-48.5	0	3																							70	70	70											
Demolition of existing surge tank	108	295	-57.4	0	3																										54	54	54								
Associated Works for Tunneling																																									
Construction of Conveyor Belt for Tunnelling Works	106	106	-48.5	0	3																	61	61	61																	
Demolition of Conveyor Belt	108	106	-48.5	0	3																																				
Shartin Side																																									
Work Zone 4																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	59	-43.4	0	3																													65	65	65					
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound																																									
Slope Formation / Upgrading Works	108	59	-43.4	0	3																																67	67	67	67	67
Foundation of Noise Barrier	104	59	-43.4	0	3																																				
Pile Cap, L-retaining Wall and Formation of new road	107	59	-43.4	0	3																																				
Utilities Diversion	104	59	-43.4	0	3																																				
Erection of structural steel post for noise barrier	100	59	-43.4	0	3																																				
Widening works at central divider																																									
Foundation of Noise Barrier	104	59	-43.4	0	3																																				
Pile Cap and Footing	107	59	-43.4	0	3																																				
Erection of structural steel post for noise barrier	100	59	-43.4	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	59	-43.4	0	3																																				
Foundation of Noise Barrier	104	59	-43.4	0	3																																				
Formation of new road	107	59	-43.4	0	3																																				
Utilities Diversion	104	59	-43.4	0	3																																				
Erection of structural steel post for noise barrier	100	59	-43.4	0	3																																				
Installation of steel member and noise barrier panel																																									
Erection of steel member and noise barrier panel at north bound	100	59	-43.4	0	3																																				
Erection of steel member and noise barrier panel at south bound	100	59	-43.4	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	59	-43.4	0	3																																				
Road Surfacing	107	59	-43.4	0	3																																				
Roadlighting and E&M works	96	59	-43.4	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	59	-43.4	0	3																																				
Road Surfacing	107	59	-43.4	0	3																																				
Roadlighting and E&M works	96	59	-43.4	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	59	-43.4	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)						60	60	74	75	75	75	75	75	75	75	75	75	75	71	71	71	71	72	72	72	71	71	74	74	74	68	68	68	68	70	70	70	71	71	71	67

Construction Activity	2028												2029												2030												2031							
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
Tunnel Buildings and Associated Road Works at Portals																																												
Work Zone 5 - Shatin Portal																																												
Site Clearance																																												
Construction of New Vehicular Bridge																																												
Construction of New Vehicular-cum-Footbridge at Toll Plaza																																												
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge																																												
Construction of New Administration Building																																												
Partially demolition of existing toll plaza																																												
Construction of New Administration Building																																												
Demolition of Existing Administration Building																																												
Demolition of Existing E&M building next to Toll Plaza																																												
Construction of New Ventilation Building																																												
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure											54	54																																
Demolition of Existing footbridge											54																																	
Toll Plaza Formation																																												
Road widening works at Toll Plaza																																												
Construction of New Car Parking Facilities																	70	70	70	70	70	70																						
Reconfiguration and Roadworks for Toll Plaza																							70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
Construction of associated structure of new footbridge																							70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
Relocation of Surge Tank																																												
Construction of surge tank																																												
Connection of 3 existing water mains to surge tank																																												
Demolition of existing surge tank																																												
Associated Works for Tunneling																																												
Construction of Conveyor Belt for Tunnelling Works																																												
Demolition of Conveyor Belt	63																																											
Shartin Side																																												
Work Zone 4																																												
Preparatory works																																												
Site Clearance and Tree felling / transplant																																												
Road Widening and Installtion of Noise Barrier																																												
Widening works at north bound																																												
Slope Formation / Upgrading Works																																												
Foundation of Noise Barrier					63	63	63	63	63																																			
Pile Cap, L-retaining Wall and Formation of new road						67	67	67	67	67	67																																	
Utilities Diversion									64	64	64																																	
Erection of structural steel post for noise barrier										59	59																																	
Widening works at central divider																																												
Foundation of Noise Barrier																											63	63	63	63	63	63												
Pile Cap and Footing																													67	67	67	67	67											
Erection of structural steel post for noise barrier																																59	59											
Widening works at south bound																																												
Slope Formation / Upgrading Works												67	67	67	67	67	67	67	67																									
Foundation of Noise Barrier																				63	63	63	63	63																				
Formation of new road																						67	67	67	67	67																		
Utilities Diversion																								64	64	64																		
Erection of structural steel post for noise barrier																									59	59																		
Installation of steel member and noise barrier panel																																												
Erection of steel member and noise barrier panel at north bound																																			60	60	60							
Erection of steel member and noise barrier panel at south bound																																						60	60					
Roadworks																																												
Roadworks at north bound																																												
Road Drainage																																			66	66								
Road Surfacing																																				67	67							
Roadlighting and E&M works																																				56	56							
Roadworks at south bound																																												
Road Drainage																																						66	66					
Road Surfacing																																							67	67				
Roadlighting and E&M works																																							56	56				
Landscaping Works																																												
Landscaping works at north bound																																											60	60
Predicted Noise Level, Leq (30mins), dB(A)	69	67	67	67	63	63	68	68	70	69	69	67	67	67	67	67	67	72	72	71	71	72	72	75	75	75	73	73	74	74	74	74	74	74	75	74	74	75	74	73	73		60	60

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **UC1**

Assessment Floor 5/F

Floor mP.D. 84.1

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Tunnel Buildings and Associated Road Works at Portals																																									
Work Zone 5 - Shatin Portal																																									
Site Clearance	105	101	-48.1	0	3			60	60																																
Construction of New Vehicular Bridge																																									
Construction of New Vehicular-cum-Footbridge at Toll Plaza	113	101	-48.1	0	3					68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68														
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge	116	101	-48.1	0	3																							71	71	71											
Construction of New Administration Building																																									
Partially demolition of existing toll plaza	108	101	-48.1	0	3					63																															
Construction of New Administration Building	113	101	-48.1	0	3						68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68			
Demolition of Existing Administration Building	108	274	-56.7	0	3																																	55	55		
Demolition of Existing E&M building next to Toll Plaza	108	274	-56.7	0	3																																	55			
Construction of New Ventilation Building																																									
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure	108	274	-56.7	0	3																																				
Demolition of Existing footbridge	108	274	-56.7	0	3																																				
Toll Plaza Formation																																									
Road widening works at Toll Plaza	117	101	-48.1	0	3					72	72	72	72	72	72	72	72	72																							
Construction of New Car Parking Facilities	116	101	-48.1	0	3																																				
Reconfiguration and Roadworks for Toll Plaza	116	101	-48.1	0	3																																				
Construction of associated structure of new footbridge	116	101	-48.1	0	3																																				
Relocation of Surge Tank																																									
Construction of surge tank	107	101	-48.1	0	3									62	62	62	62	62	62	62	62	62	62	62	62																
Connection of 3 existing water mains to surge tank	116	101	-48.1	0	3																							71	71	71											
Demolition of existing surge tank	108	274	-56.7	0	3																										55	55	55								
Associated Works for Tunneling																																									
Construction of Conveyor Belt for Tunnelling Works	106	101	-48.1	0	3																	61	61	61																	
Demolition of Conveyor Belt	108	101	-48.1	0	3																																				
Shartin Side																																									
Work Zone 4																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	94	-47.4	0	3																													61	61	61					
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound																																									
Slope Formation / Upgrading Works	108	94	-47.4	0	3																					63	63	63	63												
Foundation of Noise Barrier	104	94	-47.4	0	3																																				
Pile Cap, L-retaining Wall and Formation of new road	107	94	-47.4	0	3																																				
Utilities Diversion	104	94	-47.4	0	3																																				
Erection of structural steel post for noise barrier	100	94	-47.4	0	3																																				
Widening works at central divider																																									
Foundation of Noise Barrier	104	94	-47.4	0	3																																				
Pile Cap and Footing	107	94	-47.4	0	3																																				
Erection of structural steel post for noise barrier	100	94	-47.4	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	94	-47.4	0	3																																				
Foundation of Noise Barrier	104	94	-47.4	0	3																																				
Formation of new road	107	94	-47.4	0	3																																				
Utilities Diversion	104	94	-47.4	0	3																																				
Erection of structural steel post for noise barrier	100	94	-47.4	0	3																																				
Installation of steel member and noise barrier panel																																									
Erection of steel member and noise barrier panel at north bound	100	94	-47.4	0	3																																				
Erection of steel member and noise barrier panel at south bound	100	94	-47.4	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	94	-47.4	0	3																																				
Road Surfacing	107	94	-47.4	0	3																																				
Roadlighting and E&M works	96	94	-47.4	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	94	-47.4	0	3																																				
Road Surfacing	107	94	-47.4	0	3																																				
Roadlighting and E&M works	96	94	-47.4	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	94	-47.4	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)						60	60	74	75	75	75	75	75	75	75	75	75	75	72	72	72	72	72	72	72	71	71	75	75	75	68	68	68	68	69	69	69	69	69	69	64

Construction Activity	2028												2029												2030												2031							
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
Tunnel Buildings and Associated Road Works at Portals																																												
Work Zone 5 - Shatin Portal																																												
Site Clearance																																												
Construction of New Vehicular Bridge																																												
Construction of New Vehicular-cum-Footbridge at Toll Plaza																																												
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge																																												
Construction of New Administration Building																																												
Partially demolition of existing toll plaza																																												
Construction of New Administration Building																																												
Demolition of Existing Administration Building																																												
Demolition of Existing E&M building next to Toll Plaza																																												
Construction of New Ventilation Building																																												
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure											55	55																																
Demolition of Existing footbridge											55																																	
Toll Plaza Formation																																												
Road widening works at Toll Plaza																																												
Construction of New Car Parking Facilities															71	71	71	71	71	71																								
Reconfiguration and Roadworks for Toll Plaza																								71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Construction of associated structure of new footbridge																								71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Relocation of Surge Tank																																												
Construction of surge tank																																												
Connection of 3 existing water mains to surge tank																																												
Demolition of existing surge tank																																												
Associated Works for Tunneling																																												
Construction of Conveyor Belt for Tunnelling Works																																												
Demolition of Conveyor Belt	63																																											
Shartin Side																																												
Work Zone 4																																												
Preparatory works																																												
Site Clearance and Tree felling / transplant																																												
Road Widening and Installtion of Noise Barrier																																												
Widening works at north bound																																												
Slope Formation / Upgrading Works	63	63	63	63																																								
Foundation of Noise Barrier					59	59	59	59	59																																			
Pile Cap, L-retaining Wall and Formation of new road							63	63	63	63	63																																	
Utilities Diversion									60	60	60																																	
Erection of structural steel post for noise barrier										55	55																																	
Widening works at central divider																																												
Foundation of Noise Barrier																											59	59	59	59	59													
Pile Cap and Footing																													63	63	63	63	63											
Erection of structural steel post for noise barrier																															55	55												
Widening works at south bound																																												
Slope Formation / Upgrading Works												63	63	63	63	63	63	63	63																									
Foundation of Noise Barrier																	59	59	59	59	59																							
Formation of new road																			63	63	63	63																						
Utilities Diversion																						60	60																					
Erection of structural steel post for noise barrier																							55	55																				
Installation of steel member and noise barrier panel																																												
Erection of steel member and noise barrier panel at north bound																																				56	56	56						
Erection of steel member and noise barrier panel at south bound																																							56	56				
Roadworks																																												
Roadworks at north bound																																												
Road Drainage																																				62	62							
Road Surfacing																																						63	63					
Roadlighting and E&M works																																						52	52					
Roadworks at south bound																																												
Road Drainage																																					62	62						
Road Surfacing																																						63	63					
Roadlighting and E&M works																																						52	52					
Landscaping Works																																												
Landscaping works at north bound																																												56
Predicted Noise Level, Leq (30mins), dB(A)	63	63	63	63	59	59	64	64	66	65	66	64	63	63	63	63	63	72	72	71	71	72	72	75	75	75	74	74	74	74	74	74	74	74	75	74	74	75	74	74	74	74	74	56

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **KSC1**

Assessment Floor 15/F

Floor mP.D. 77.8

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Tunnel Buildings and Associated Road Works at Portals																																									
Work Zone 5 - Shatin Portal																																									
Site Clearance	105	165	-52.3	0	3			56	56																																
Construction of New Vehicular Bridge																																									
Construction of New Vehicular-cum-Footbridge at Toll Plaza	113	165	-52.3	0	3					64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64														
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge	116	165	-52.3	0	3																							67	67	67											
Construction of New Administration Building																																									
Partially demolition of existing toll plaza	108	165	-52.3	0	3					59																															
Construction of New Administration Building	113	165	-52.3	0	3						64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64			
Demolition of Existing Administration Building	108	256	-56.1	0	3																																		55	55	
Demolition of Existing E&M building next to Toll Plaza	108	256	-56.1	0	3																																		55		
Construction of New Ventilation Building																																									
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure	108	256	-56.1	0	3																																				
Demolition of Existing footbridge	108	256	-56.1	0	3																																				
Toll Plaza Formation																																									
Road widening works at Toll Plaza	117	165	-52.3	0	3					68	68	68	68	68	68	68	68	68																							
Construction of New Car Parking Facilities	116	165	-52.3	0	3																																				
Reconfiguration and Roadworks for Toll Plaza	116	165	-52.3	0	3																																				
Construction of associated structure of new footbridge	116	165	-52.3	0	3																																				
Relocation of Surge Tank																																									
Construction of surge tank	107	165	-52.3	0	3									57	57	57	57	57	57	57	57	57	57	57	57																
Connection of 3 existing water mains to surge tank	116	165	-52.3	0	3																							67	67	67											
Demolition of existing surge tank	108	256	-56.1	0	3																										55	55	55								
Associated Works for Tunneling																																									
Construction of Conveyor Belt for Tunnelling Works	106	165	-52.3	0	3															57	57	57																			
Demolition of Conveyor Belt	108	165	-52.3	0	3																																				
Shartin Side																																									
Work Zone 4																																									
Preparatory works																																									
Site Clearance and Tree felling / transplant	106	163	-52.2	0	3																													57	57	57					
Road Widening and Installtion of Noise Barrier																																									
Widening works at north bound																																									
Slope Formation / Upgrading Works	108	163	-52.2	0	3																																59	59	59	59	
Foundation of Noise Barrier	104	163	-52.2	0	3																																				
Pile Cap, L-retaining Wall and Formation of new road	107	163	-52.2	0	3																																				
Utilities Diversion	104	163	-52.2	0	3																																				
Erection of structural steel post for noise barrier	100	163	-52.2	0	3																																				
Widening works at central divider																																									
Foundation of Noise Barrier	104	163	-52.2	0	3																																				
Pile Cap and Footing	107	163	-52.2	0	3																																				
Erection of structural steel post for noise barrier	100	163	-52.2	0	3																																				
Widening works at south bound																																									
Slope Formation / Upgrading Works	108	163	-52.2	0	3																																				
Foundation of Noise Barrier	104	163	-52.2	0	3																																				
Formation of new road	107	163	-52.2	0	3																																				
Utilities Diversion	104	163	-52.2	0	3																																				
Erection of structural steel post for noise barrier	100	163	-52.2	0	3																																				
Installation of steel member and noise barrier panel																																									
Erection of steel member and noise barrier panel at north bound	100	163	-52.2	0	3																																				
Erection of steel member and noise barrier panel at south bound	100	163	-52.2	0	3																																				
Roadworks																																									
Roadworks at north bound																																									
Road Drainage	106	163	-52.2	0	3																																				
Road Surfacing	107	163	-52.2	0	3																																				
Roadlighting and E&M works	96	163	-52.2	0	3																																				
Roadworks at south bound																																									
Road Drainage	106	163	-52.2	0	3																																				
Road Surfacing	107	163	-52.2	0	3																																				
Roadlighting and E&M works	96	163	-52.2	0	3																																				
Landscaping Works																																									
Landscaping works at north bound	100	163	-52.2	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)						56	56	70	71	71	71	71	71	71	71	71	71	71	67	67	67	67	68	68	68	67	67	71	71	71	65	65	65	64	65	65	65	65	65	65	62

Construction Activity	2028												2029												2030												2031							
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
Tunnel Buildings and Associated Road Works at Portals																																												
Work Zone 5 - Shatin Portal																																												
Site Clearance																																												
Construction of New Vehicular Bridge																																												
Construction of New Vehicular-cum-Footbridge at Toll Plaza																																												
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge																																												
Construction of New Administration Building																																												
Partially demolition of existing toll plaza																																												
Construction of New Administration Building																																												
Demolition of Existing Administration Building																																												
Demolition of Existing E&M building next to Toll Plaza																																												
Construction of New Ventilation Building																																												
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure											55	55																																
Demolition of Existing footbridge											55																																	
Toll Plaza Formation																																												
Road widening works at Toll Plaza																																												
Construction of New Car Parking Facilities																	67	67	67	67	67	67																						
Reconfiguration and Roadworks for Toll Plaza																							67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67		
Construction of associated structure of new footbridge																							67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67		
Relocation of Surge Tank																																												
Construction of surge tank																																												
Connection of 3 existing water mains to surge tank																																												
Demolition of existing surge tank																																												
Associated Works for Tunneling																																												
Construction of Conveyor Belt for Tunnelling Works																																												
Demolition of Conveyor Belt	59																																											
Shartin Side																																												
Work Zone 4																																												
Preparatory works																																												
Site Clearance and Tree felling / transplant																																												
Road Widening and Installtion of Noise Barrier																																												
Widening works at north bound																																												
Slope Formation / Upgrading Works	59	59	59	59																																								
Foundation of Noise Barrier					55	55	55	55	55																																			
Pile Cap, L-retaining Wall and Formation of new road						58	58	58	58	58	58																																	
Utilities Diversion									55	55	55																																	
Erection of structural steel post for noise barrier										51	51																																	
Widening works at central divider																																												
Foundation of Noise Barrier																											55	55	55	55	55	55												
Pile Cap and Footing																													58	58	58	58	58	58										
Erection of structural steel post for noise barrier																																51	51											
Widening works at south bound																																												
Slope Formation / Upgrading Works												59	59	59	59	59	59	59	59																									
Foundation of Noise Barrier																				55	55	55	55	55																				
Formation of new road																						58	58	58	58	58																		
Utilities Diversion																								55	55	55																		
Erection of structural steel post for noise barrier																									51	51																		
Installation of steel member and noise barrier panel																																												
Erection of steel member and noise barrier panel at north bound																																		51	51	51								
Erection of steel member and noise barrier panel at south bound																																					51	51						
Roadworks																																												
Roadworks at north bound																																												
Road Drainage																																		57	57									
Road Surfacing																																			58	58								
Roadlighting and E&M works																																			47	47								
Roadworks at south bound																																												
Road Drainage																																					57	57						
Road Surfacing																																						58	58					
Roadlighting and E&M works																																						47	47					
Landscaping Works																																												
Landscaping works at north bound																																												
Predicted Noise Level, Leq (30mins), dB(A)	63	59	59	59	55	55	60	60	61	60	62	60	59	59	59	59	59	68	68	67	67	68	68	71	70	70	70	70	70	70	70	70	70	70	71	70	70	71	70	70	70	70		

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs

Appendix 4.9a Construction Noise Assessment (Mitigated Scenario)

Location: **Shatin**

NAP ID: **KATC1**

Assessment Floor 20/F
Floor mP.D. 93

Construction Activity	SWL, dB(A)	Distance, m [1]	Distance Correction, dB(A)	Screening Correction, dB(A)	Façade Correction, dB(A)	2025												2026												2027											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Tunnel Buildings and Associated Road Works at Portals																																									
Work Zone 5 - Shatin Portal																																									
Site Clearance	105	160	-52.1	0	3		56	56																																	
Construction of New Vehicular Bridge																																									
Construction of New Vehicular-cum-Footbridge at Toll Plaza	113	160	-52.1	0	3					64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64														
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge	116	160	-52.1	0	3																							67	67	67											
Construction of New Administration Building																																									
Partially demolition of existing toll plaza	108	160	-52.1	0	3					59																															
Construction of New Administration Building	113	160	-52.1	0	3						64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
Demolition of Existing Administration Building	108	233	-55.3	0	3																																				
Demolition of Existing E&M building next to Toll Plaza	108	233	-55.3	0	3																																				
Construction of New Ventilation Building																																									
Site Formation for TBM launching area at Shatin Portal (including Slope Formation Works)	119	390	-59.8	0	3					62	62	62	62	62	62	62	62	62																							
Site Formation of Vent. Bldg at Shatin Portal	117	390	-59.8	0	3														61	61	61																				
Construction of Vent. Bldg at Shatin Portal	114	390	-59.8	0	3																	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure	108	233	-55.3	0	3																																				
Demolition of Existing footbridge	108	233	-55.3	0	3																																				
Toll Plaza Formation																																									
Road widening works at Toll Plaza	117	160	-52.1	0	3					68	68	68	68	68	68	68	68	68																							
Construction of New Car Parking Facilities	116	160	-52.1	0	3																																				
Reconfiguration and Roadworks for Toll Plaza	116	160	-52.1	0	3																																				
Construction of associated structure of new footbridge	116	160	-52.1	0	3																																				
Relocation of Surge Tank																																									
Construction of surge tank	107	160	-52.1	0	3									58	58	58	58	58	58	58	58	58	58	58	58																
Connection of 3 existing water mains to surge tank	116	160	-52.1	0	3																							67	67	67											
Demolition of existing surge tank	108	233	-55.3	0	3																										56	56	56								
Associated Works for Tunneling																																									
Construction of Conveyor Belt for Tunnelling Works	106	160	-52.1	0	3																	57	57	57																	
Demolition of Conveyor Belt	108	160	-52.1	0	3																																				
Tunneling and Tunnel E&M																																									
Work Zone 6 - Tunnel																																									
Construction of New Middle Third Tunnel	120	391	-59.8	0	3														64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
60m mined tunnel for TBM launching at Shatin Portal																																									
TBM site set up and power supply for TBM launching																																									
TBM Assembly																																									
TBM Excavation - learning curve (incl. ground treatment)																																									
TBM Excavation - Remaining (incl. ground treatment)																																									
TBM Dismantling																																									
100m Mined Tunnel for TBM break out at Kln Portal																																									
Cross Passages (at 100m interval) by drill and break method and lining construction																																									
1200/1400mm dia. watermain laying inside tunnel																																									
Watermain diversion planning																																									
Tunnel internal structure (OHVD, walkway, road slab and pavement, Partition Wall)																																									
Tunnel E&M and TCSS installation																																									
Enlargement of Existing Kowloon Bound Tunnel	118	378	-59.5	0	3																																				
Connection of 3 existing water mains to the new pipelines inside the 3rd tunnel																																									
Enlargement of tunnel by drill and break method																																									
Cross Passages (at 100m intervals) by drill and break method and lining construction																																									
Tunnel lining																																									
Tunnel internal structure (OHVD, walkway, road slab and pavement)																																									
Tunnel E&M and TCSS installation																																									
Demolition of Partition Wall in New Third Tunnel																																									
Decommission, Closure and Rehabilitation of existing Shatin bound Tunnel to 'E' Tunnel	114	428	-60.6	0	3																																				
Predicted Noise Level, Leq (30mins), dB(A)							56	56		70	71	71	71	71	71	71	71	71	70	70	70	69	70	70	70	69	69	72	72	72	68	68	68	67	67	67	67	67	67	67	66

Construction Activity	2028												2029												2030												2031											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Tunnel Buildings and Associated Road Works at Portals																																																
Work Zone 5 - Shatin Portal																																																
Site Clearance																																																
Construction of New Vehicular Bridge																																																
Construction of New Vehicular-cum-Footbridge at Toll Plaza																																																
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge																																																
Construction of New Administration Building																																																
Partially demolition of existing toll plaza																																																
Construction of New Administration Building																																																
Demolition of Existing Administration Building												56																																				
Demolition of Existing E&M building next to Toll Plaza												56																																				
Construction of New Ventilation Building																																																
Site Formation for TBM launching area at Shatin Portal (including Slope Formation Works)																																																
Site Formation of Vent. Bldg at Shatin Portal																																																
Construction of Vent. Bldg at Shatin Portal	57	57	57	57	57	57	57	57																																								
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure									56	56																																						
Demolition of Existing footbridge									56																																							
Toll Plaza Formation																																																
Road widening works at Toll Plaza																																																
Construction of New Car Parking Facilities													67	67	67	67	67	67																														
Reconfiguration and Roadworks for Toll Plaza																			67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67								
Construction of associated structure of new footbridge																			67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67								
Relocation of Surge Tank																																																
Construction of surge tank																																																
Connection of 3 existing water mains to surge tank																																																
Demolition of existing surge tank																																																
Associated Works for Tunneling																																																
Construction of Conveyor Belt for Tunnelling Works																																																
Demolition of Conveyor Belt	59																																															
Tunneling and Tunnel E&M																																																
Work Zone 6 - Tunnel																																																
Construction of New Middle Third Tunnel	64	64	64	64	64	64	64	64	64	64	64	64	64	64																																		
60m mined tunnel for TBM launching at Shatin Portal																																																
TBM site set up and power supply for TBM launching																																																
TBM Assembly																																																
TBM Excavation - learning curve (incl. ground treatment)																																																
TBM Excavation - Remaining (incl. ground treatment)																																																
TBM Dismantling																																																
100m Mined Tunnel for TBM break out at Kln Portal																																																
Cross Passages (at 100m interval) by drill and break method and lining construction																																																
1200/1400mm dia. watermain laying inside tunnel																																																
Watermain diversion planning																																																
Tunnel internal structure (OHVD, walkway, road slab and pavement, Partition Wall)																																																
Tunnel E&M and TCSS installation																																																
Demolition of Partition Wall in New Third Tunnel																																																
Decommission, Closure and Rehabilitation of existing Shatin bound Tunnel to 'E' Tunnel																																																
Predicted Noise Level, Leq (30mins), dB(A)	66	65	65	65	65	65	65	65	65	65	65	65	64	64	64	62	62	68	68	68	68	68	68	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	62	62	62	62	62	62	62

Construction Activity	2032												2033												2034											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Tunnel Buildings and Associated Road Works at Portals																																				
Work Zone 5 - Shatin Portal																																				
Site Clearance																																				
Construction of New Vehicular Bridge																																				
Construction of New Vehicular-cum-Footbridge at Toll Plaza																																				
Roadworks (Flexible Pavement), Signage, Drainage for New Vehicular Bridge																																				
Construction of New Administration Building																																				
Partially demolition of existing toll plaza																																				
Construction of New Administration Building																																				
Demolition of Existing Administration Building																																				
Demolition of Existing E&M building next to Toll Plaza																																				
Construction of New Ventilation Building																																				
Site Formation for TBM launching area at Shatin Portal (including Slope Formation Works)																																				
Site Formation of Vent. Bldg at Shatin Portal																																				
Construction of Vent. Bldg at Shatin Portal																																				
Demolition of existing Kowloon Bound Vent. Bldg at Shatin Portal and nearby structure																																				
Demolition of Existing footbridge																																				
Toll Plaza Formation																																				
Road widening works at Toll Plaza																																				
Construction of New Car Parking Facilities																																				
Reconfiguration and Roadworks for Toll Plaza																																				
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Connection of 3 existing water mains to surge tank																																				
Demolition of existing surge tank																																				
Associated Works for Tunneling																																				
Construction of Conveyor Belt for Tunnelling Works																																				
Demolition of Conveyor Belt																																				
Tunneling and Tunnel E&M																																				
Work Zone 6 - Tunnel																																				
Construction of New Middle Third Tunnel																																				
60m mined tunnel for TBM launching at Shatin Portal																																				
TBM site set up and power supply for TBM launching																																				
TBM Assembly																																				
TBM Excavation - learning curve (incl. ground treatment)																																				
TBM Excavation - Remaining (incl. ground treatment)																																				
TBM Dismantling																																				
100m Mined Tunnel for TBM break out at Kln Portal																																				
Cross Passages (at 100m interval) by drill and break method and lining construction																																				
1200/1400mm dia. watermain laying inside tunnel																																				
Watermain diversion planning																																				
Tunnel internal structure (OHVD, walkway, road slab and pavement, Partition Wall)																																				
Tunnel E&M and TCSS installation																																				
Demolition of Partition Wall in New Third Tunnel																																				
Decommission, Closure and Rehabilitation of existing Shatin bound Tunnel to 'E' Tunnel																									56	56	56	56	56	56	56	56	56	56	56	56
Predicted Noise Level, Leq (30mins), dB(A)										62	62	62													56	56	56	56	56	56	56	56	56	56	56	56

[1] The distances refer to the horizontal distances between the notional source positions in work zones and the concerned NSRs