

Annex A

Construction Noise Assessment

Table A1 - Plant Inventory (No mitigation measures)

Setwork

(1) Site Clearance	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Bulldozer/Ripper	CNP 030	2	115	118
	Excavator	CNP 081	1	112	112
	Generator	CNP 101	1	108	108
	Compressor	CNP 002	2	102	105
	Loader	CNP 081	1	112	112
	Lorry	CNP 141	2	112	115
	Scraper	CNP 204	1	119	119
	Motor Grader	CNP 104	1	113	113
				Area Total SWL	124
(2) Equipment for Bored Piling	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
Boring	Bored piling rig	CNP164	1	115	115
Concreting	Concrete mixer truck	CNP044	1	109	109
	Concrete pump	CNP047	1	109	109
	Water pump	CNP281	1	88	88
				Area Total SWL	117
(3) Equipment for Piling Capping	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
Ground	Excavator	CNP081	1	112	112
	Lorry	CNP141	1	112	112
Reinforcement	Crane	CNP048	1	112	112
	Compressor	CNP002	1	102	102
	Bar bender	CNP021	1	90	90
Concreting	Concrete mixer truck	CNP044	1	109	109
	Vibratory poker	CNP170	2	113	116
Backfilling	Roller	CNP186	1	108	108
				Area Total SWL	120
(4) Equipment for In-Situ Superstructure Construction	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
Formwork and Reinforcement	Crane	CNP048	2	112	115
	Compressor	CNP002	2	102	105
	Winch	CNP263	2	102	105
Concreting	Concrete mixer truck	CNP044	2	109	112
	Concrete pump truck	CNP047	1	109	109
	Vibratory pokers	CNP170	2	113	116
				Area Total SWL	120
(5) Equipment for Precast Superstructure Construction	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Launching girder (hoist)	CNP122	1	95	95
	Truck-based generator	CNP102	1	100	100
	Track-mounted crane	CNP048	1	112	112
	Compressor for prestressing	CNP002	1	102	102
				Area Total SWL	113
(6) Equipment for Drainage	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
Excavation of trench	Excavator	CNP081	1	112	112
	Lorry	CNP141	1	112	112
Placement of pipe	Mobile diesel crane	CNP048	1	112	112
				Area Total SWL	117
(7) Equipment for Road Construction	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
Levelling of new road	Grader	CNP104	1	113	113
	Bulldozer	CNP030	1	115	115
Laying base and sub-base	Lorry	CNP141	1	112	112
	Compactor	CNP050	1	105	105
	Roller	CNP185	1	108	108
Kerbing	Concrete mixer truck	CNP044	1	109	109
	Vibratory poker	CNP170	1	113	113
				Area Total SWL	120

	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
(8) Equipment for Paving	Asphalt paver	CNP004	1	109	109
	Road roller	CNP185	1	108	108
				Area Total SWL	112
(9) Equipment for Landscaping	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Excavator	CNP 081	2	112	115
	Loader	CNP 081	2	112	115
	Lorry	CNP 141	4	112	118
				Area Total SWL	121
(10) Equipment for Excavation	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Bulldozer	CNP 030	2	115	118
	Compressor	CNP 001	3	100	105
	Excavator	CNP 081	2	112	115
	Loader	CNP 081	2	112	115
	Truck	CNP 141	4	112	118
				Total	123
(11) Tunnel Construction	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Truck Mixer	CNP 044	3	109	114
	Poker Vibrator	CNP 170	4	113	119
	Piling, Diaphragm Wall	CNP 162	2	105	108
	Water Pump	CNP 281	2	88	91
			Total	120	
(12) Backfilling and Slope Works Backfilling	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Excavator	CNP 081	2	112	115
	Loader	CNP 081	1	112	112
	Vibrator Roller	CNP 186	1	108	108
	Truck	CNP 141	4	112	118
			Total	121	
(13) Dredging of Marine Sediment	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Grab Dredgers	CNP 063	2	112	115
	Barge	CNP 061	2	104	107
	Tugboat	CNP 221	2	110	113
			Total	118	
(14) Seawall Construction	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Grab Dredgers	CNP 063	2	112	115
	Barge	CNP 061	2	104	107
	Mobile Crane	CNP 048	2	112	115
			Total	118	
(15) Reclamation	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Barge	CNP 061	2	104	107
	Bulldozer	CNP 030	2	115	118
	Lorry	CNP 141	2	112	115
	Mechanical Compactors	CNP 050	2	105	108
			Total	120	
(16) Marine Piling Works	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Excavator	CNP 081	2	112	115
	Water Pump (petrol)	CNP 282	1	103	103
	Lorry	CNP 141	2	112	115
	Barge	CNP 061	1	104	104
	Bored piling rig	CNP 164	1	115	115
			Total	120	

Table A2a - Predicted Facade Noise Levels (No mitigation measures) TKO Section

AP	Description	A	B	C	D	E	F	G	H	I	J	K	L	M	N
N903	Village House to the northwest of the Proposed Road	1	1,13	13,14	14	14,15	15	2	2,3,4	3,4	3,4,5	5,6	5,7,8	7,8	9
	Total SWL, dB(A)	124	125	121	118	122	120	117	124	123	124	118	122	121	121
	Distance from worksite, m														
		84	85	81	79	83	80	77	84	83	84	78	82	81	81
		Construction Noise Levels, dB(A)													

Note BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively

Key:

- A - Site clearance
- B - Site clearance and dredging for seawall trenches
- C - Dredging for seawall trench and construction
- D - Seawall construction
- E - Seawall construction and reclamation
- F - Reclamation
- G - Piling
- H - Piling, pile capping and abutment construction
- I - Pile capping and abutment construction
- J - Pile capping, abutment and bridge deck construction
- K - Bridge deck construction and drainage
- L - Bridge deck construction and roadworks
- M - Roadworks
- N - Landscaping

Table A2b - Predicted Facade Noise Levels (No mitigation measures) Tunnel Section

Phase		A	B	C	D	E	F	G	
Plant Team		1	10	11	12	12,6	6	9	
Total SWL, dB(A)		124	123	120	121	122	117	121	
Plan distance from worksite, m		Construction Noise Levels, dB(A)							
AP N904	Village House to the north of Tunnel	85	84	81	82	83	78	82	

Note: **BOLD** type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site clearance
- B - Excavation
- C - Tunnel construction
- D - Backfilling and slopeworks
- E - Backfilling, slopeworks and drainage
- F - Drainage
- G - Landscaping

Table A2c - Predicted Facade Noise Levels (No mitigation measures) Lei Yue Mun Section

AP	Description	Phase										
		A	B	C	D	E	F	G	H	I	J	K
	Plant Team	1	12,2	12,2,3,4	12,3,4	12	12,5	12,5,6	5,6	6	7,8	9
	Total SWL, dB(A)	124	122	126	125	121	121	123	118	117	121	121
	Distance from worksite (m)	Construction Noise Levels, dB(A)										
N114	Ma San Tsuen	93	91	95	94	90	90	92	87	86	90	90
N103	Ma San Tsuen	89	88	91	91	86	87	88	84	82	86	86
N111	Sam Ka Tsuen	89	88	91	91	86	87	88	84	82	86	86
N303	Yau Tong Centre	93	91	95	94	90	90	92	87	86	90	90
N304	Yau Tong Centre	89	88	91	91	86	87	88	84	82	86	86
N402	Yau Tong Phase 5 Site C	91	89	93	92	88	88	90	85	84	88	88
N504	Ko Chiu Road Phase 3	86	83	87	86	82	82	84	79	78	82	82
N502	Ko Chiu Road Phase 3	93	91	95	94	90	90	92	87	86	90	90

Note: **BOLD** type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site clearance
- B - Cut and fill slopes, retaining walls, piling
- C - Cut and fill slopes, retaining walls, piling, pile capping and abutment construction
- D - Cut and fill slopes, retaining walls and pile capping and abutment construction
- E - Cut and fill slopes, retaining walls
- F - Cut and fill slopes, retaining walls and bridge deck construction
- G - Cut and fill slopes, retaining walls, bridge deck construction and utilities, drainage and sewer works
- H - Bridge deck construction and utilities, drainage and sewer works
- I - Drainage
- J - Roadworks
- K - Landscaping

Table A2d - Predicted Facade Noise Levels (No mitigation measures) Yau Tong Section

Phase	A	B	C	D	E	F	G	H	I	J	K	L	M
Plant Team	1	13	13, 14	14	14, 15	15	2	2, 3, 4	3, 4	4, 6	6	7, 8	9
Total SWL, dB(A)	124	118	121	118	122	120	117	124	123	122	117	121	121
Distance from worksite (m)	Construction Noise Levels, dB(A)												
N107 Hoi Bun School	89	83	86	84	88	86	82	89	89	87	82	86	86
N106 Sam Ka Tsuen	86	79	83	80	84	82	79	86	85	84	79	83	83

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site cleanance
- B - Dredging for seawall trenches
- C - Dredging for seawall trenches and seawall construction
- D - Seawal construction
- E - Seawall construction and reclamation
- F - Reclamation
- G - Land piling
- H - Piling, pile capping and column construction
- I - Pile capping and column construction
- J - Bridge deck construction and drainage
- K - Drainage
- L - Roadworks
- M - Landscaping

Table A2e - Predicted Facade Noise Levels (No mitigation measures) Marine Section

Phase		A	B	C	D	E	F	G	H	I
Plant Team		1	16	16, 16	16	3,4	3,4,5	5	5,6	6
Total SWL, dB(A)		124	120	123	120	123	124	113	118	117
Distance from worksite (m)		Construction Noise Levels, dB(A)								
AP N701	Proposed Residential Development at Cha Kwo Ling	89	85	88	85	89	89	78	84	82
N608	Proposed School Site at Yau Tong Bay Reclamation Area	85	81	84	81	84	85	74	79	78
N602	Proposed Residential Development at Yau Tong Bay	85	81	84	81	84	85	74	79	78

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Mobilisation
- B - Submerged reef construction
- C - Submerged reef construction and marine piling works
- D - Marine piling work
- E - Pile capping and column construction
- F - Pile capping and column, and marine bridge deck construction
- G - Marine deck construction
- H - Marine deck construction and drainage
- I - Drainage

Table A3 - Plant Inventory (Mitigation Option 1 - Quiet Plant)

Sitework

(1) Site Clearance		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
		Bulldozer/Ripper (QP)	Tab7 / 65(1)	2	111	114
		Excavator (QP)	Tab7 / 97	1	105	105
		Generator (QP)	Tab10 / 62	1	100	100
		Compressor (QP)	Tab10 / 26	2	100	103
		Loader (QP)	Tab7 / 97	1	105	105
		Lorry (QP)	Tab12 / 27	2	105	108
		Scraper (QP)	Tab12 / 17	1	110	110
		Motor Grader (QP)	Tab7 / 75	1	112	112
					Area Total SWL	118
(2) Equipment for Bored Piling		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Boring	Bored piling rig (QP)	Tab8 / 41*	1	112	112
	Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	100
		Concrete pump (QP)	Tab9/ 36	1	106	106
		Water pump	CNP281	1	88	88
					Area Total SWL	113
(3) Equipment for Piling Capping		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Ground	Excavator (QP)	Tab7 / 97	1	105	105
		Lorry (QP)	Tab12 / 27	1	105	105
	Reinforcement	Crane (QP)	Tab10 / 110	1	106	106
		Compressor (QP)	Tab10 / 26	1	100	100
		Bar bender	CNP021	1	90	90
	Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	100
		Vibratory poker (QP)	Tab9/ 32	2	100	103
	Backfilling	Roller	CNP186	1	108	108
					Area Total SWL	113
(4) Equipment for In-Situ Superstructure Construction		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Formwork and Reinforcement	Crane (QP)	Tab10/ 110	2	106	109
		Compressor (QP)	Tab10 / 26	2	100	103
		Winch	CNP263	2	102	105
	Concreting	Concrete mixer truck (QP)	Tab9/ 35	2	100	103
		Concrete pump truck (QP)	Tab9/ 22	1	106	106
		Vibratory poker (QP)	Tab9/ 32	2	100	103
					Area Total SWL	113
(5) Equipment for Precast Superstructure Construction		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
		Launching girder (hoist)	CNP122	1	95	95
		Truck-based generator	CNP102	1	100	100
		Track-mounted crane (QP)	Tab10/ 110	1	106	106
		Compressor for prestressing	CNP002	1	102	102
					Area Total SWL	108
(6) Equipment for Drainage		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Excavation of trench	Excavator (QP)	Tab7/ 97	1	105	105
		Lorry (QP)	Tab12/ 27	1	105	105
	Placement of pipe	Crane (QP)	Tab10/ 110	1	106	106
					Area Total SWL	110
(7) Equipment for Road Construction		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
	Levelling of new road	Grader (QP)	Tab7/ 76	1	112	112
		Bulldozer (QP)	Tab7/ 65	1	111	111
	Laying base and sub-base	Lorry (QP)	Tab12/ 27	1	105	105
		Compactor	CNP050	1	105	105
		Roller	CNP185	1	108	108
	Kerbing	Concrete mixer truck (QP)	Tab9/ 35	1	100	100
		Vibratory poker (QP)	Tab9/ 32	1	100	100
					Area Total SWL	116
(8) Equipment for Paving		Noise Source	Ref. No.	No.	SWL/unit	sub-SWL
		Asphalt paver	CNP004	1	109	109
		Road roller	CNP185	1	108	108
					Area Total SWL	112

	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
(9) Equipment for Landscaping	Excavator (QP)	Tab7/ 97	2	105	108	
	Loader (QP)	Tab7/ 97	2	105	108	
	Lorry (QP)	Tab12/ 27	4	105	111	
	Area Total SWL					114
(10) Equipment for Excavation	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
	Bulldozer (QP)	Tab7/ 65	2	111	114	
	Compressor (QP)	Tab10/ 26	3	100	105	
	Excavator (QP)	Tab7/ 97	2	105	108	
	Loader (QP)	Tab17/ 97	2	105	108	
	Truck (QP)	Tab12/ 27	4	105	111	
Area Total SWL					117	
(11) Tunnel Construction	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
	Concrete mixer truck (QP)	Tab9/ 35	3	100	105	
	Vibratory poker (QP)	Tab9/ 32	4	100	106	
	Piling, Diaphragm Wall	CNP 162	2	105	108	
	Water Pump	CNP 281	2	88	91	
Area Total SWL					111	
(12) Backfilling and Slope Works <i>Backfilling</i>	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
	Excavator (QP)	Tab7/ 97	2	105	108	
	Loader (QP)	Tab7/ 97	1	105	105	
	Vibrator Roller (QP)	Tab7/ 116	1	106	106	
	Lorry (QP)	Tab12/ 27	4	105	111	
Area Total SWL					114	
(13) Dredging of Marine Sediment	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
	Grab Dredgers	CNP 063	2	112	115	
	Barge	CNP 061	2	104	107	
	Tugboat	CNP 221	2	110	113	
Area Total SWL					118	
(14) Seawall Construction	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
	Grab Dredgers	CNP 063	2	112	115	
	Barge	CNP 061	2	104	107	
	Crane (QP)	Tab10/ 110	2	106	109	
Area Total SWL					117	
(15) Reclamation	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
	Barge	CNP 061	2	104	107	
	Bulldozer (QP)	Tab7/ 65	2	111	114	
	Lorry (QP)	Tab12/ 27	2	105	108	
	Mechanical Compactors	CNP 050	2	105	108	
Area Total SWL					116	
(16) Marine Piling Works	Noise Source	Ref. No.	No.	SWL/unit	sub-SWL	
	Excavator (QP)	Tab7/ 97	2	105	108	
	Water Pump (petrol)	CNP 282	1	103	103	
	Lorry (QP)	Tab12/ 27	2	105	108	
	Barge	CNP 061	1	104	104	
	Bored piling rig (QP)	Tab8 / 41*	1	112	112	
Area Total SWL					115	

Notes:

(1) Reference taken from British standard BS5228:part 1 :1984

Table A4a - Predicted Facade Noise Levels (Mitigation Option 1 - Quiet Plant) TKO Section

AP	Description	A	B	C	D	E	F	G	H	I	J	K	L	M	N
N903	Village House to the northwest of the Proposed Road	118	121	120	117	119	116	113	118	116	117	112	118	118	114
	Phase	1	1,13	13,14	14	14,15	15	2	2,3,4	3,4	3,4,5	5,6	5,7,8	7,8	9
	Plant Team														
	Total SWL, dB(A)	78	81	80	77	80	77	73	78	76	77	73	78	78	74
	Distance from worksite, m	Construction Noise Levels, dB(A)													
	55														

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site Clearance
- B - Site clearance and Dredging for seawall trenches
- C - Dredging for seawall trench and construction
- D - Seawall construction
- E - Seawall construction and Reclamation
- F - Reclamation
- G - Piling
- H - Piling, pile capping and abutment construction
- I - Pile capping and abutment construction
- J - Pile capping, abutment and bridge deck construction
- K - Bridge deck construction and drainage
- L - Bridge deck construction and Roadworks
- M - Roadworks
- N - Landscaping

Table A4b - Predicted Facade Noise Levels (Mitigation Option 1 - Quiet Plant) Tunnel Section

AP	Description	Phase	A	B	C	D	E	F	G	
		Plant Team	1	10	11	12	12,6	6	9	
		Total SWL, dB(A)	118	117	111	114	116	110	114	
		Plan distance from worksite, m								
N904	Village House to the north of Tunnel	50	79	78	72	75	77	71	75	
			Construction Noise Levels, dB(A)							

Note: **BOLD** type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site clearance
- B - Excavation
- C - Tunnel construction
- D - Backfilling and slopeworks
- E - Backfilling, slopeworks and drainage
- F - Drainage
- G - Landscaping

Table A4c - Predicted Facade Noise Levels (Mitigation Option 1 - Quiet Plant) Lei Yue Mun Section

AP	Description	A	B	C	D	E	F	G	H	I	J	K
	Phase	1	12,2	12,2,3,4	12,3,4	12	12,5	12,5,6	5,6	6	7,8	9
	Plant Team	118	117	119	118	114	115	116	112	110	118	114
	Total SWL, dB(A)											
	Distance from worksite (m)											
		Construction Noise Levels, dB(A)										
N114	Ma San Tsuen	87	86	88	87	83	84	85	81	79	87	83
N103	Ma San Tsuen	84	82	85	84	80	81	82	78	76	83	79
N111	Sam Ka Tsuen	84	82	85	84	80	81	82	78	76	83	79
N303	Yau Tong Centre	87	86	88	87	83	84	85	81	79	87	83
N304	Yau Tong Centre	84	82	85	84	80	81	82	78	76	83	79
N402	Yau Tong Phase 5 Site C	85	84	87	85	81	82	83	79	77	85	81
N504	Ko Chiu Road Phase 3	79	78	81	79	75	76	77	73	71	79	75
N502	Ko Chiu Road Phase 3	87	86	88	87	83	84	85	81	79	87	83

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site clearance
- B - Cut and fill slopes, retaining walls, piling
- C - Cut and fill slopes, retaining walls, piling, pile capping and abutment construction
- D - Cut and fill slopes, retaining walls and pile capping and abutment construction
- E - Cut and fill slopes, retaining walls
- F - Cut and fill slopes, retaining walls and bridge deck construction
- G - Cut and fill slopes, retaining walls, bridge deck construction and utilities, drainage and sewer works
- H - Bridge deck construction and utilities, drainage and sewer works
- I - Drainage
- J - Roadworks
- K - Landscaping

Table A4d - Predicted Facade Noise Levels (Mitigation Option 1 - Quiet Plant) Yau Tong Section

AP	Description	Phase													
		Plant Team	A	B	C	D	E	F	G	H	I	J	K	L	M
	Total SWL, dB(A)	118	118	120	117	119	116	113	118	116	115	110	118	114	
	Distance from worksite (m)	Construction Noise Levels, dB(A)													
N107	Hoi Bun School	30	84	83	86	82	85	82	79	83	82	80	76	83	79
N106	Sam Ka Tsuen	45	80	79	82	81	78	75	80	78	77	72	80	76	

Note: BOLD type indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site cleanance
- B - Dredging for seawall trenches
- C - Dredging for seawall trenches and seawall construction
- D - Seawall construction
- E - Seawall construction and reclamation
- F - Reclamation
- G - Land piling
- H - Piling, pile capping and column construction
- I - Pile capping and column construction
- J - Bridge deck construction and drainage
- K - Drainage
- L - Roadworks
- M - Landscaping

Table A4e - Predicted Facade Noise Levels (Mitigation Option 1 - Quiet Plant) Marine Section

AP	Description	Phase	A	B	C	D	E	F	G	H	I
		Plant Team	1	16	16, 16	16	3,4	3,4,5	5	5,6	6
		Total SWL, dB(A)	118	115	118	115	116	117	108	112	110
		Distance from worksite (m)	Construction Noise Levels, dB(A)								
N701	Proposed Residential Development at Cha Kwo Ling	30	84	81	84	81	82	82	74	78	76
N608	Proposed School Site at Yau Tong Bay Reclamation Area	50	79	76	79	76	77	78	69	73	71
N602	Proposed Residential Development at Yau Tong Bay	50	79	76	79	76	77	78	69	73	71

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Mobilisation
- B - Submerged reef construction
- C - Submerged reef construction and marine piling works
- D - Marine piling work
- E - Pile capping and column construction
- F - Pile capping and column, and marine bridge deck construction
- G - Marine deck construction
- H - Marine deck construction and drainage
- I - Drainage

Table A5 - Plant Inventory (Quiet Plant + Barrier + Restriction of Plant Nos.)

Sitework

(1) Site Clearance	Noise Source	Ref. No.(1)	No.	SWL/unit	Barrier	sub-SWL
	Bulldozer/Ripper (QP)	Tab7 / 65	1	111	-5	106
	Excavator (QP)	Tab7 / 97	1	105	-5	100
	Generator (QP)	Tab10 / 62	1	100	-10	90
	Compressor (QP)	Tab10 / 26	2	100	-10	93
	Loader (QP)	Tab7 / 97	1	105	-5	100
	Lorry (QP)	Tab12 / 27	1	105	-5	100
	Scraper (QP)	Tab12 / 17	1	110	-5	105
	Motor Grader(QP)	Tab7 / 75	1	112	-5	107
				Area Total SWL		112
(2) Equipment for Bored Piling	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
Boring	Bored piling rig (QP)	Tab8 / 41	1	112	-10	102
Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95
	Concrete pump (QP)	Tab9/ 38	1	106	-10	96
	Water pump	CNP281	1	88	-10	78
				Area Total SWL		104
(3) Equipment for Piling Capping Ground	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
	Excavator (QP)	Tab7 / 97	1	105	-5	100
	Lorry (QP)	Tab12 / 27	1	105	-5	100
Reinforcement	Crane (QP)	Tab10 / 110	1	106	-10	96
	Compressor (QP)	Tab10 / 26	1	100	-10	90
	Bar bender	CNP021	1	90	-10	80
Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95
	Vibratory poker (QP)	Tab9/ 32	2	100	-10	93
Backfilling	Roller	CNP186	1	108	-5	103
				Area Total SWL		107
(4) Equipment for In-Situ Superstructure Construction	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
Formwork and Reinforcement	Crane (QP)	Tab10/110	1	106	-10	96
	Compressor (QP)	Tab10 / 26	2	100	-10	93
	Winch	CNP283	2	102	-10	95
Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95
	Concrete pump truck (QP)	Tab9/ 22	1	106	-5	101
	Vibratory poker (QP)	Tab9/ 32	2	100	-10	93
				Area Total SWL		104
(5) Equipment for Precast Superstructure Construction	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
	Launching girder (hoist)	CNP122	1	95	-5	90
	Truck-based generator	CNP102	1	100	-5	95
	Track-mounted crane (QP)	Tab10/110	1	106	-10	96
	Compressor for prestressing	CNP002	1	102	-10	92
				Area Total SWL		100
(6) Equipment for Drainage	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
Excavation of trench	Excavator (QP)	Tab7/ 97	1	105	-5	100
	Lorry (QP)	Tab12/ 27	1	105	-5	100
Placement of pipe	Crane (QP)	Tab10/110	1	106	-10	96
				Area Total SWL		104
(7) Equipment for Road Construction	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
Levelling of new road	Grader (QP)	Tab7/ 78	1	112	-5	107
	Bulldozer (QP)	Tab7/ 65	1	111	-5	106
Laying base and sub-base	Lorry (QP)	Tab12/ 27	1	105	-5	100
	Compactor	CNP050	1	105	-10	95
	Roller	CNP185	1	108	-5	103
Kerbing	Concrete mixer truck (QP)	Tab9/35	1	100	-5	95
	Vibratory poker (QP)	Tab9/ 32	1	100	-10	90
				Area Total SWL		111
(8) Equipment for Paving	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
	Asphalt paver	CNP004	1	109	-5	104
	Road roller	CNP185	1	108	-5	103
				Area Total SWL		107
(9) Equipment for Landscaping	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL
	Excavator (QP)	Tab7/ 97	1	105	-5	100
	Loader (QP)	Tab7/ 97	1	105	-5	100
	Lorry (QP)	Tab12/ 27	1	105	-5	100
				Area Total SWL		105

(10) Equipment for Excavation		Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
		Bulldozer (QP)	Tab7/ 65	1	111	-5	106	
		Compressor(QP)	Tab10/ 28	3	100	-10	95	
		Excavator (QP)	Tab7/ 97	1	105	-5	100	
		Loader (QP)	Tab17/ 97	1	105	-5	100	
		Truck (QP)	Tab12/ 27	1	105	-5	100	
		Area Total SWL						109
(11) Tunnel Construction		Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
		Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95	
		Vibratory poker (QP)	Tab9/ 32	2	100	-10	93	
		Piling, Diaphragm Wall	CNP 162	1	105	-10	95	
		Water Pump	CNP 281	2	88	-10	81	
		Area Total SWL						99
(12) Backfilling and Slope Works Backfilling		Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
		Excavator (QP)	Tab7/ 97	1	105	-5	100	
		Loader (QP)	Tab7/ 97	1	105	-5	100	
		Vibrator Roller (QP)	Tab7/ 116	1	106	-5	101	
		Lorry (QP)	Tab12/ 27	1	105	-5	100	
		Area Total SWL						106
(13) Dredging of Marine Sediment		Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
		Grab Dredgers	CNP 063	1	112	-5	107	
		Barge	CNP 061	2	104	-5	102	
		Tugboat	CNP 221	1	110	-5	105	
		Area Total SWL						110
(14) Seawall Construction		Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
		Grab Dredgers	CNP 063	1	112	-5	107	
		Barge	CNP 061	1	104	-5	99	
		Crane (QP)	Tab10/ 110	1	106	-10	96	
		Area Total SWL						108
(15) Reclamation		Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
		Barge	CNP 061	1	104	-5	99	
		Bulldozer (QP)	Tab7/ 65	1	111	-5	106	
		Lorry (QP)	Tab12/ 27	1	105	-5	100	
		Mechanical Compactors	CNP 050	2	105	-10	98	
		Area Total SWL						108
(16) Marine Piling Works		Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
		Excavator (QP)	Tab7/ 97	1	105	-5	100	
		Water Pump (petrol)	CNP 282	1	103	-10	93	
		Lorry (QP)	Tab12/ 27	2	105	-5	103	
		Barge	CNP 061	1	104	-5	99	
		Bored piling rig (QP)	Tab8 / 41	1	112	-10	102	
		Total						107

Notes:

(1) References taken from GW-TM (CNP) or British standard BS5228:part 1 :1984 (Table reference / plant reference)

Table A6a - Predicted Facade Noise Levels (Quiet Plant + Barriers) TKO Section

AP	Description	A	B	C	D	E	F	G	H	I	J	K	L	M	N
N903	Village House to the northwest of the Proposed Road	1	1,13	13,14	14	14,15	15	2	2,3,4	3,4	3,4,5	5,6	5,7,8	7,8	9
	Total SWL, dB(A)	113	116	115	111	114	111	104	110	109	110	105	113	112	109
	Distance from worksite, m	Construction Noise Levels, dB(A)													
	55	73	76	75	71	74	71	64	70	69	70	65	73	73	69

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site Clearance
- B - Site clearance and Dredging for seawall trenches
- C - Dredging for seawall trench and construction
- D - Seawall construction
- E - Seawall construction and Reclamation
- F - Reclamation
- G - Piling
- H - Piling, pile capping and abutment construction
- I - Pile capping and abutment construction
- J - Pile capping, abutment and bridge deck construction
- K - Bridge deck construction and drainage
- L - Bridge deck construction and Roadworks
- M - Roadworks
- N - Landscaping

Table A6b - Predicted Facade Noise Levels (Quiet Plant + Barriers) Tunnel Section

Phase		A	B	C	D	E	F	G
AP	Plant Team	1	10	11	12	12,6	6	9
N904	Total SWL, dB(A)	113	112	103	109	110	104	109
	Plan distance from worksite, m	Construction Noise Levels, dB(A)						
	50	74	73	64	70	71	65	70

Note: **BOLD** type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site clearance
- B - Excavation
- C - Tunnel construction
- D - Backfilling and slopeworks
- E - Backfilling, slopeworks and drainage
- F - Drainage
- G - Landscaping

Table A6c - Predicted Facade Noise Levels (Quiet Plant + Barriers) Lei Yue Mun Section

AP	Description	Phase										
		A	B	C	D	E	F	G	H	I	J	K
	Plant Team	1	12,2	12,2,3,4	12,3,4	12	12,5	12,5,6	5,6	6	7,8	9
	Total SWL, dB(A)	113	110	113	112	109	110	111	105	104	112	109
	Distance from worksite (m)	Construction Noise Levels, dB(A)										
N114	Ma San Tsuen	82	79	82	81	78	79	80	74	73	81	78
N103	Ma San Tsuen	79	76	78	78	75	75	76	71	69	78	74
N111	Sam Ka Tsuen	79	76	78	78	75	75	76	71	69	78	74
N303	Yau Tong Centre	82	79	82	81	78	79	80	74	73	81	78
N304	Yau Tong Centre	79	76	78	78	75	75	76	71	69	78	74
N402	Yau Tong Phase 5 Site C	80	77	80	79	76	77	78	72	71	79	76
N504	Ko Chiu Road Phase 3	74	71	74	73	70	71	72	66	65	73	70
N502	Ko Chiu Road Phase 3	82	79	82	81	78	79	80	74	73	81	78

Note: **BOLD** type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site clearance
- B - Cut and fill slopes, retaining walls, piling
- C - Cut and fill slopes, retaining walls, piling, pile capping and abutment construction
- D - Cut and fill slopes, retaining walls and pile capping and abutment construction
- E - Cut and fill slopes, retaining walls
- F - Cut and fill slopes, retaining walls and bridge deck construction
- G - Cut and fill slopes, retaining walls, bridge deck construction and utilities, drainage and sewer works
- H - Bridge deck construction and utilities, drainage and sewer works
- I - Drainage
- J - Roadworks
- K - Landscaping

Table A6d - Predicted Facade Noise Levels (Quiet Plant + Barriers) Yau Tong Section

AP	Description	A	B	C	D	E	F	G	H	I	J	K	L	M	
	Phase	1	13	13, 14	14	14, 15	15	2	2, 3, 4	3, 4	4, 6	6	7, 8	9	
	Plant Team	113	113	115	111	114	111	104	110	109	108	104	112	109	
	Total SWL, dB(A)														
	Distance from worksite (m)	Construction Noise Levels, dB(A)													
N107	Hoi Bun School	79	78	80	76	79	76	69	76	75	73	69	78	74	
N106	Sam Ka Tsuen	75	74	77	73	76	73	66	72	71	70	66	74	71	

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Site cleanance
- B - Dredging for seawall trenches
- C - Dredging for seawall trenches and seawall construction
- D - Seawal construction
- E - Seawall construction and reclamation
- F - Reclamation
- G - Land piling
- H - Piling, pile capping and column construction
- I - Pile capping and column construction
- J - Bridge deck construction and drainage
- K - Drainage
- L - Roadworks
- M - Landscaping

Table A6e - Predicted Facade Noise Levels (Quiet Plant + Barriers) Marine Section

AP	Description	Phase	A	B	C	D	E	F	G	H	I
N701	Proposed Residential Development at Cha Kwo Ling	Plant Team	1	16	16, 16	16	3,4	3,4,5	5	5,6	6
N608	Proposed School Site at Yau Tong Bay Reclamation Area	Total SWL, dB(A)	113	108	111	108	109	110	100	105	104
N602	Proposed Residential Development at Yau Tong Bay	Distance from worksite (m)									
			Construction Noise Levels, dB(A)								
		30	79	74	77	74	75	75	65	71	69
		50	74	69	72	69	70	71	61	66	65
		50	74	69	72	69	70	71	61	66	65

Note: BOLD type face indicates criteria exceedances. Construction Noise Criteria are 75dB(A) and 70dB(A) for residential uses and schools respectively.

Key:

- A - Mobilisation
- B - Submerged reef construction
- C - Submerged reef construction and marine piling works
- D - Marine piling work
- E - Pile capping and column construction
- F - Pile capping and column, and Marine bridge deck construction
- G - Marine deck construction
- H - Marine deck construction and drainage
- I - Drainage

Table A7 - Maximum Permissible SWLs

AP	Description	Criterion ⁽¹⁾	Distance	Max SWL
TKO Section				
N903	Village House to the northwest of the Proposed Road	75	55	N903 115
Tunnel Section				
N904	Village House to the north of Tunnel	75	50	114
Lei Yue Mun Section				
N114	Ma San Tsuen	75	20	106
N103	Ma San Tsuen	75	30	110
N111	Sam Ka Tsuen	75	30	110
N303	Yau Tong Centre	75	20	106
N304	Yau Tong Centre	75	30	110
N402	Yau Tong Phase 5 Site C	75	25	108
N504	Ko Chiu Road Phase 3	75	50	114
N502	Ko Chiu Road Phase 3	75	20	105
Reclamation Works Section				
N107	Hoi Bun School	70	30	105
N106	Sam Ka Tsuen	75	45	113
Marine Section				
N701	Proposed Residential Development at Cha Kwo Ling	75	30	110
N608	Proposed School Site at Yau Tong Bay Reclamation Area	70	50	109
N602	Proposed Residential Development at Yau Tong Bay	75	50	114

Note: (1) Construction Noise Criteria, 75dB(A) for dwellings and 70dB(A) for schools

Table A8 - Plant Inventory (Mitigation Option 3)

Tseung Kwan O Section (Max allowable SWL = 115dB(A))

Construction Phase	Construction Work	Isolated works	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL			
B	Site Clearance + Dredging of Marine Sediment (Plant Team 1 + 13)		Bulldozer/Ripper (QP)	Tab7 / 65	1	111	-5	106			
			Excavator (QP)	Tab7 / 97	1	105	-5	100			
			Generator (QP)	Tab10 / 62	1	100	-10	90			
			Compressor (QP)	Tab10 / 26	2	100	-10	93			
			Loader (QP)	Tab7 / 97	1	105	-5	100			
			Lorry (QP)	Tab12 / 27	1	105	-5	100			
			Scraper (QP)	Tab12 / 17	1	110	-5	105			
			Motor Grader(QP)	Tab7 / 75	1	112	-5	107			
			Grab Dredgers	CNP 063	1	112	-5	107			
			Barge	CNP 061	2	104	-5	102			
			Tugboat	CNP 221	1	110	-5	105			
			Total SWL								114

Lei Yue Mun Section (Max allowable SWL = 105(A))

Construction Phase	Construction Work	Isolated works	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL					
D	Piling Capping (Plant Team 3)	Ground	Excavator(QP)	Tab7 / 97	1	105	-10	95					
			Lorry(QP)	Tab12 / 27	1	105	-5	100					
			Reinforcement	Crane (QP)	Tab10 / 110	1	106	-10	96				
				Compressor (QP)	Tab10 / 26	1	100	-10	90				
				Bar bender	CNP021	1	90	-10	80				
			Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95				
				Vibratory poker (QP)	Tab9/ 32	2	100	-10	93				
			Total SWL								104		
			H	Road Construction (Plant Team 7)	Levelling of new road	Roller	CNP186	1	108	-5	103		
						Total SWL							103
						Laying base and sub-base	Lorry (QP)	Tab12/ 27	1	105	-5	100	
							Compactor	CNP050	1	105	-10	95	
							Roller	CNP185	1	108	-5	103	
Total SWL								105					
Kerbing	Concrete mixer truck (QP)	Tab9/35	1	100	-5	95							
	Vibratory poker (QP)	Tab9/ 32	1	100	-10	90							
Total SWL								96					
I	Equipment for Paving (Plant Team 8)	Isolated works	Asphalt paver	CNP004	1	109	-10	99					
			Road roller	CNP185	1	108	-10	96					
			Total SWL							102			
J	Landscaping (Plant Team 9)	Isolated works	Excavator (QP)	Tab7/ 97	1	105	-10	95					
			Loader (QP)	Tab7/ 97	1	105	-5	100					
			Lorry (QP)	Tab12/ 27	1	105	-5	100					
			Total SWL							104			

Yau Tong Section (Max allowable SWL = 105dB(A))

Construction Phase	Construction Work	Isolated works	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL		
A	Site Clearance (Plant Team 1)	Excluding scraper and motor grader	Bulldozer/Ripper (QP)	Tab7 / 65	1	111	-10	101		
			Generator (QP)	Tab10 / 62	1	100	-10	90		
			Compressor (QP)	Tab10 / 26	2	100	-10	93		
			Excavator (QP)	Tab7 / 97	1	105	-10	95		
			Loader (QP)	Tab7 / 97	1	105	-10	95		
			Lorry (QP)	Tab12 / 27	2	105	-10	96		
			Total SWL							105
			Excluding bulldozer and motor grader	Scraper (QP)	Tab12 / 17	1	110	-10	100	
				Generator (QP)	Tab10 / 62	1	100	-10	90	
				Compressor (QP)	Tab10 / 26	2	100	-10	93	
				Excavator (QP)	Tab7 / 97	1	105	-10	95	
				Loader (QP)	Tab7 / 97	1	105	-10	95	
				Lorry (QP)	Tab12 / 27	2	105	-10	96	
Total SWL							104			
Excluding bulldozer and scraper	Motor Grader(QP)	Tab7 / 75	1	112	-10	102				
	Generator (QP)	Tab10 / 62	1	100	-10	90				
	Compressor (QP)	Tab10 / 26	2	100	-10	93				
	Excavator (QP)	Tab7 / 97	1	105	-10	95				
	Loader (QP)	Tab7 / 97	1	105	-10	95				
	Lorry (QP)	Tab12 / 27	2	105	-10	96				
Total SWL							105			
B	Dredging for seawall/seawall trenches (Plant Team 13)	Isolated works	Grab Dredgers	CNP 063	1	112	-5	107		
			Barge	CNP 061	2	104	-5	102		
			Tugboat	CNP 221	1	110	-5	105		
			Total SWL							110
C	Seawall Construction (Plant Team 14)	Isolated works	Grab Dredgers	CNP 063	1	112	-5	107		
			Barge	CNP 061	1	104	-5	99		
			Crane (QP)	Tab10/ 110	1	106	-10	96		
Total SWL							108			
D	Reclamation (Plant Team 15)	Isolated works	Barge	CNP 061	1	104	-5	99		
			Bulldozer (QP)	Tab7/ 65	1	111	-10	101		
			Lorry (QP)	Tab12/ 27	1	105	-10	95		
			Mechanical Compactors	CNP 050	2	105	-10	96		
			Total SWL							105

Construction Phase	Construction Work	Isolated works	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL				
G	Column construction (Plant team 4)	Formwork and Reinforcement	Crane (QP)	Tab10/110	1	108	-10	96				
			Compressor (QP)	Tab10 / 26	2	100	-10	93				
			Winch	CNP263	2	102	-10	95				
		Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95				
			Concrete pump truck (QP)	Tab9/ 22	1	106	-5	101				
			Vibratory poker (QP)	Tab9/ 32	2	100	-10	93				
			Total SWL						104			
		Marine Section (Max allowable SWL = 107dB(A))										
		A	Mobilisation (Plant Team 1)	Excluding scraper and motor grader	Bulldozer/Ripper (QP)	Tab7 / 65	1	111	-10	101		
					Excavator (QP)	Tab7 / 97	1	105	-5	100		
Generator (QP)	Tab10 / 82				1	100	-10	90				
Compressor (QP)	Tab10 / 26				2	100	-10	93				
Loader (QP)	Tab7 / 97				1	105	-5	100				
Lorry (QP)	Tab12 / 27				1	105	-5	100				
Total SWL									107			
Excluding bulldozer and motor grader	Scraper (QP)				Tab12 / 17	1	110	-10	100			
	Excavator (QP)				Tab7 / 97	1	105	-5	100			
	Generator (QP)			Tab10 / 82	1	100	-10	90				
	Compressor (QP)			Tab10 / 26	2	100	-10	93				
	Loader (QP)			Tab7 / 97	1	105	-5	100				
	Lorry (QP)			Tab12 / 27	1	105	-5	100				
Total SWL								106				
Excluding bulldozer and scraper	Motor Grader(QP)			Tab7 / 75	1	112	-10	102				
	Excavator (QP)			Tab7 / 97	1	105	-5	100				
	Generator (QP)			Tab10 / 82	1	100	-10	90				
	Compressor (QP)			Tab10 / 26	2	100	-10	93				
	Loader (QP)			Tab7 / 97	1	105	-5	100				
	Lorry (QP)			Tab12 / 27	1	105	-5	100				
	Total SWL								107			
C	Submerged reef construction (Plant Team 18)			Isolated works	Excavator (QP)	Tab7/ 97	1	105	-5	100		
					Water Pump (petrol)	CNP 282	1	103	-10	93		
					Lorry (QP)	Tab12/ 27	2	105	-5	103		
					Barge	CNP 061	1	104	-5	99		
					Bored piling rig (QP)	Tab8 / 41	1	112	-10	102		
					Total SWL						107	
				Submerged reef construction (Plant Team 16)	Excavator (QP)	Tab7/ 97	1	105	-5	100		
					Water Pump (petrol)	CNP 282	1	103	-10	93		
					Lorry (QP)	Tab12/ 27	2	105	-5	103		
	Barge			CNP 061	1	104	-5	99				
	Bored piling rig (QP)			Tab8 / 41	1	112	-10	102				
	Total SWL								107			
	E	Pile capping (Plant Team 3)	Ground	Excavator (QP)	Tab7 / 97	1	105	-5	100			
				Lorry (QP)	Tab12 / 27	1	105	-5	100			
				Total SWL						100		
			Reinforcement	Crane (QP)	Tab10 / 110	1	108	-10	96			
				Compressor (QP)	Tab10 / 26	1	100	-10	90			
				Bar bender	CNP021	1	90	-10	80			
Concreting			Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95				
			Vibratory poker (QP)	Tab9/ 32	2	100	-10	93				
Backfilling			Roller	CNP186	1	108	-5	103				
			Total SWL						107			
Column construction (Plant Team 4)			Formwork and Reinforcement	Crane (QP)	Crane (QP)	Tab10/110	1	108	-10	96		
					Compressor (QP)	Tab10 / 26	2	100	-10	93		
					Winch	CNP263	2	102	-10	95		
				Concreting	Concrete mixer truck (QP)	Tab9/ 35	1	100	-5	95		
					Concrete pump truck (QP)	Tab9/ 22	1	106	-5	101		
					Vibratory poker (QP)	Tab9/ 32	2	100	-10	93		
				Total SWL						104		
				F	Pile capping (Plant Team 3)	Ground	Excavator (QP)	Tab7 / 97	1	105	-5	100
							Lorry (QP)	Tab12 / 27	1	105	-5	100
							Total SWL					
						Reinforcement	Crane (QP)	Tab10 / 110	1	108	-10	96
	Compressor (QP)	Tab10 / 26					1	100	-10	90		
Bar bender	CNP021	1	90				-10	80				
Concreting	Concrete mixer truck (QP)	Tab9/ 35	1			100	-5	95				
	Vibratory poker (QP)	Tab9/ 32	2			100	-10	93				
Backfilling	Roller	CNP186	1			108	-5	103				
	Total SWL								107			
Column construction (Plant Team 4)	Formwork and Reinforcement	Crane (QP)	Crane (QP)			Tab10/110	1	108	-10	96		
			Compressor (QP)			Tab10 / 26	2	100	-10	93		
			Winch			CNP263	2	102	-10	95		
		Concreting	Concrete mixer truck (QP)			Tab9/ 35	1	100	-5	95		
			Concrete pump truck (QP)			Tab9/ 22	1	106	-5	101		
			Vibratory poker (QP)			Tab9/ 32	2	100	-10	93		
		Total SWL								104		
		Manne deck construction (Plant Team 5)	Launching girder (hoist)			Truck-based generator	CNP102	1	100	-5	95	
				Track-mounted crane (QP)	Tab10/110	1	106	-10	96			
Compressor for prestressing	CNP002			1	102	-10	92					
Total SWL								100				

Construction Phase	Construction Work	Isolated works	Noise Source	Ref. No.	No.	SWL/unit	Barrier	sub-SWL	
H	Manne deck construction (Plant Team 5)		Launching girder (hoist)	CNP122	1	95	-5	90	
			Truck-based generator	CNP102	1	100	-5	95	
			Track-mounted crane (QP)	Tab10/110	1	106	-10	96	
			Compressor for prestressing	CNP002	1	102	-10	92	
			Total SWL						100
	Drainage (Plant Team 6)	Excavation of trench	Excavator (QP)	Tab7/ 97	1	105	-5	100	
			Lorry (QP)	Tab12/ 27	1	105	-5	100	
			Total SWL						103
		Placement of pipe	Crane (QP)	Tab10/110	1	106	-10	96	
			Total SWL						96
I	Drainage (Plant Team 6)	Isolated works	Excavation of trench	Excavator (QP)	Tab7/ 97	1	105	-5	100
					Tab12/ 27	1	105	-5	100
					Total SWL				
			Placement of pipe	Crane (QP)	Tab10/110	1	106	-10	96
					Total SWL				