

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Mitigation measures	Reduction dB(A)	Total SWL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>							
<b>Option 1 - TSHD</b>							
<b>Zone 1</b>							
TSHD	[1]	60	111	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Zone 2</b>							
TSHD	[1]	60	111	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Zone 3</b>							
TSHD	[1]	60	111	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Zone 4</b>							
TSHD	[1]	60	111	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Option 2 - Grab Dredgers</b>							
<b>Zone 1</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	48	112	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Group 2</b>							
Tug boat	CNP 221	48	110	100%			127
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>129</b>
<b>Zone 2</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	48	112	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Group 2</b>							
Tug boat	CNP 221	48	110	100%			127
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>129</b>
<b>Zone 3</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	48	112	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Group 2</b>							
Tug boat	CNP 221	48	110	100%			127
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>129</b>
<b>Zone 4</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	48	112	100%			129
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>129</b>
<b>Group 2</b>							
Tug boat	CNP 221	48	110	100%			127
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>129</b>

Remark:

[1] SWL is referred to the approved EIA reports include "1,800 MW Gas-fired Power Station at Lamma Extension" (Register No.: AEIAR-010/1999) and "Lamma Power Station Navigation Channel Improvement" (Register No.: AEIAR-069/2003).

PME	TM or other reference	No. of PME	SWL, dB(A)/ unit	% on time	Mitigation measures	Reduction dB(A)	Total SWL, dB(A)
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>							
<b>Foundation and Substructure</b>							
Excavator/ loader, wheeled/ tracked	CNP 081	3	112	100%			117
Air compressor, air flow $\leq$ 10m <sup>3</sup> /min	CNP 001	5	100	100%			107
Breaker, hand-held, mass > 35kg	CNP 026	1	114	100%			114
Concrete mixer (petrol)	CNP 046	1	96	100%			96
Concrete lorry mixer	CNP 044	4	109	100%			115
Poker, vibratory, hand-held	CNP 170	6	113	100%			121
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	100%			109
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[2]	2	112	100%			115
Water pump, submersible (electric)	CNP 283	2	85	100%			88
Scraper	CNP 204	1	119	100%			119
Roller, vibratory	CNP 186	1	108	100%			108
				<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>		<b>126</b>
<b>Superstructure</b>							
Hoist, passenger/ material (electric)	CNP 122	4	95	100%			101
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	100%			115
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	100%			115
Air compressor, air flow $\leq$ 10m <sup>3</sup> /min	CNP 001	5	100	100%			107
Breaker, hand-held, mass > 35kg	CNP 026	1	114	100%			114
Concrete mixer (petrol)	CNP 046	1	96	100%			96
Concrete lorry mixer	CNP 044	4	109	100%			115
Poker, vibratory, hand-held	CNP 170	6	113	100%			121
Concrete pump, stationary/ lorry mounted	CNP 047	1	109	100%			109
Lorry, with crane/grab, gross vehicle weight > 38 tonne	[2]	2	112	100%			115
Generator, standard	CNP 101	4	108	100%			114
Dump truck	CNP 067	2	117	100%			120
Grout pump	[2]	2	105	100%			108
				<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>		<b>126</b>
<b>Structural Steelwork and E&amp;M Erection</b>							
Heavy Duty Tracked Crane	CNP 048	2	112	100%			115
Crane, mobile/ barge mounted (diesel)	CNP 048	2	112	100%			115
Air compressor, air flow $\leq$ 10m <sup>3</sup> /min	CNP 001	2	100	100%			103
Generator, standard	CNP 101	1	108	100%			108
Lorry	CNP 141	4	112	100%			118
				<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>		<b>121</b>

Remark:

[2] SWL is referred to the approved EIA reports include "1,800 MW Gas-fired Power Station at Lamma Extension" (Register No.: AEIAR-010/1999) and "Lamma Power Station Navigation Channel Improvement" (Register No.: AEIAR-069/2003).

Noise Sensitive Receiver						Noise Sensitive Receiver					
NSR N1 - Village House No.20, Ko Long	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	NSR N2 - Northern Lamma School	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>						<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>					
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	129	858	67	3	65	a) Zone 1	129	1306	70	3	62
b) Zone 2	129	1245	70	3	62	b) Zone 2	129	1779	73	3	59
c) Zone 3	129	2151	75	3	57	c) Zone 3	129	2622	76	3	56
d) Zone 4	129	2927	77	3	55	d) Zone 4	129	3381	79	3	53
Noise Impact from Option 1, dB(A) = 67						Noise Impact from Option 1, dB(A) = 65					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	129	858	67	3	65	a) Zone 1	129	1306	70	3	62
b) Zone 2	129	1245	70	3	62	b) Zone 2	129	1779	73	3	59
c) Zone 3	129	2151	75	3	57	c) Zone 3	129	2622	76	3	56
d) Zone 4	129	2927	77	3	55	d) Zone 4	129	3381	79	3	53
Noise Impact from Option 2, dB(A) = 67						Noise Impact from Option 2, dB(A) = 65					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>						<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>					
Foundation and Substructure	126	913	67	3	62	Foundation and Substructure	126	1424	71	3	58
Superstructure	126	913	67	3	62	Superstructure	126	1424	71	3	58
Structural Steelwork and E&M Erection	121	913	67	3	57	Structural Steelwork and E&M Erection	121	1424	71	3	53
Maximum Noise Impact from Concurrent Project, dB(A) = 62						Maximum Noise Impact from Concurrent Project, dB(A) = 58					
Cumulative Noise Impact for Option 1, dB(A) = 68						Cumulative Noise Impact for Option 1, dB(A) = 65					
Cumulative Noise Impact for Option 2, dB(A) = 68						Cumulative Noise Impact for Option 2, dB(A) = 65					
Noise Criterion, Leq (30 mins) dB(A) = 75						Noise Criterion, Leq (30 mins) dB(A) = 70/ 65					
Exceedance: No						Exceedance: No					
<b>Noise Sensitive Receiver</b>						<b>Noise Sensitive Receiver</b>					
NSR N3 - Village House No.21, Wang Long	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	NSR N4 - Concerto Inn, Hung Shing Ye	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>						<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>					
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	129	1263	70	3	62	a) Zone 1	129	1843	73	3	59
b) Zone 2	129	1516	72	3	60	b) Zone 2	129	1877	73	3	59
c) Zone 3	129	2262	75	3	57	c) Zone 3	129	2318	75	3	57
d) Zone 4	129	3006	78	3	54	d) Zone 4	129	2972	77	3	55
Noise Impact from Option 1, dB(A) = 65						Noise Impact from Option 1, dB(A) = 64					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	129	1263	70	3	62	a) Zone 1	129	1843	73	3	59
b) Zone 2	129	1516	72	3	60	b) Zone 2	129	1877	73	3	59
c) Zone 3	129	2262	75	3	57	c) Zone 3	129	2318	75	3	57
d) Zone 4	129	3006	78	3	54	d) Zone 4	129	2972	77	3	55
Noise Impact from Option 2, dB(A) = 65						Noise Impact from Option 2, dB(A) = 64					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>						<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>					
Foundation and Substructure	126	1123	69	3	60	Foundation and Substructure	126	1381	71	3	58
Superstructure	126	1123	69	3	60	Superstructure	126	1381	71	3	58
Structural Steelwork and E&M Erection	121	1123	69	3	55	Structural Steelwork and E&M Erection	121	1381	71	3	53
Maximum Noise Impact from Concurrent Project, dB(A) = 60						Maximum Noise Impact from Concurrent Project, dB(A) = 58					
Cumulative Noise Impact for Option 1, dB(A) = 66						Cumulative Noise Impact for Option 1, dB(A) = 65					
Cumulative Noise Impact for Option 2, dB(A) = 66						Cumulative Noise Impact for Option 2, dB(A) = 65					
Noise Criterion, Leq (30 mins) dB(A) = 75						Noise Criterion, Leq (30 mins) dB(A) = 75					
Exceedance: No						Exceedance: No					
<b>Noise Sensitive Receiver</b>						<b>Noise Sensitive Receiver</b>					
NSR N5 - YMCA Lamma Island Youth Hostel	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	NSR N6 - Village House No.6 Lo So Shing	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>						<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>					
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	129	2480	76	3	56	a) Zone 1	129	2564	76	3	56
b) Zone 2	129	2314	75	3	57	b) Zone 2	129	2061	74	3	58
c) Zone 3	129	2443	76	3	56	c) Zone 3	129	2052	74	3	58
d) Zone 4	129	2921	77	3	55	d) Zone 4	129	2277	75	3	57
Noise Impact from Option 1, dB(A) = 62						Noise Impact from Option 1, dB(A) = 63					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	129	2480	76	3	56	a) Zone 1	129	2564	76	3	56
b) Zone 2	129	2314	75	3	57	b) Zone 2	129	2061	74	3	58
c) Zone 3	129	2443	76	3	56	c) Zone 3	129	2052	74	3	58
* Zone 4	129	2921	77	3	55	d) Zone 4	129	2277	75	3	57
Noise Impact from Option 2, dB(A) = 62						Noise Impact from Option 2, dB(A) = 63					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>						<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>					
Foundation and Substructure	126	1858	73	3	56	Foundation and Substructure	126	1911	74	3	55
Superstructure	126	1858	73	3	56	Superstructure	126	1911	74	3	55
Structural Steelwork and E&M Erection	121	1858	73	3	51	Structural Steelwork and E&M Erection	121	1911	74	3	50
Maximum Noise Impact from Concurrent Project, dB(A) = 56						Maximum Noise Impact from Concurrent Project, dB(A) = 55					
Cumulative Noise Impact for Option 1, dB(A) = 63						Cumulative Noise Impact for Option 1, dB(A) = 64					
Cumulative Noise Impact for Option 2, dB(A) = 63						Cumulative Noise Impact for Option 2, dB(A) = 64					
Noise Criterion, Leq (30 mins) dB(A) = 75						Noise Criterion, Leq (30 mins) dB(A) = 75					
Exceedance: No						Exceedance: No					

Remarks:

1. Horizontal distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Mitigation measures	Reduction dB(A)	Total SWL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>							
<b>Option 1 - TSHD</b>							
<b>Zone 1</b>							
TSHD	[1]	12	111	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Zone 2</b>							
TSHD	[1]	12	111	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Zone 3</b>							
TSHD	[1]	12	111	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Zone 4</b>							
TSHD	[1]	12	111	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Option 2 - Grab Dredgers</b>							
<b>Zone 1</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	10	112	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Group 2</b>							
Tug boat	CNP 221	10	110	100%			120
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>122</b>
<b>Zone 2</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	10	112	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Group 2</b>							
Tug boat	CNP 221	10	110	100%			120
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>122</b>
<b>Zone 3</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	10	112	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Group 2</b>							
Tug boat	CNP 221	10	110	100%			120
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>122</b>
<b>Zone 4</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	10	112	100%			122
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>122</b>
<b>Group 2</b>							
Tug boat	CNP 221	10	110	100%			120
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>122</b>

Remark:

[1] SWL is referred to the approved EIA reports include "1,800 MW Gas-fired Power Station at Lamma Extension" (Register No.: AEIAR-010/1999) and "Lamma Power Station Navigation Channel Improvement" (Register No.: AEIAR-069/2003).

Noise Sensitive Receiver						Noise Sensitive Receiver					
NSR N1 - Village House No.20, Ko Long	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	NSR N2 - Northern Lamma School	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>						<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>					
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	122	858	67	3	58	a) Zone 1	122	1306	70	3	55
b) Zone 2	122	1245	70	3	55	b) Zone 2	122	1779	73	3	52
c) Zone 3	122	2151	75	3	50	c) Zone 3	122	2622	76	3	49
d) Zone 4	122	2927	77	3	48	d) Zone 4	122	3381	79	3	46
Noise Impact from Option 1, dB(A) = 60						Noise Impact from Option 1, dB(A) = 58					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	122	858	67	3	58	a) Zone 1	122	1306	70	3	55
b) Zone 2	122	1245	70	3	55	b) Zone 2	122	1779	73	3	52
c) Zone 3	122	2151	75	3	50	c) Zone 3	122	2622	76	3	49
d) Zone 4	122	2927	77	3	48	d) Zone 4	122	3381	79	3	46
Noise Impact from Option 2, dB(A) = 60						Noise Impact from Option 2, dB(A) = 58					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>						<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>					
No construction noise impact from concurrent project is anticipated*						No construction noise impact from concurrent project is anticipated*					
Noise Criterion, Leq (5 mins) dB(A) = 60						Noise Criterion, Leq (5 mins) dB(A) = 60					
Exceedance: No						Exceedance: No					
Noise Sensitive Receiver						Noise Sensitive Receiver					
NSR N3 - Village House No.21, Wang Long	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	NSR N4 - Concerto Inn, Hung Shing Ye	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>						<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>					
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	122	1263	70	3	55	a) Zone 1	122	1843	73	3	52
b) Zone 2	122	1516	72	3	53	b) Zone 2	122	1877	73	3	52
c) Zone 3	122	2262	75	3	50	c) Zone 3	122	2318	75	3	50
d) Zone 4	122	3006	78	3	47	d) Zone 4	122	2972	77	3	48
Noise Impact from Option 1, dB(A) = 58						Noise Impact from Option 1, dB(A) = 57					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	122	1263	70	3	55	a) Zone 1	122	1843	73	3	52
b) Zone 2	122	1516	72	3	53	b) Zone 2	122	1877	73	3	52
c) Zone 3	122	2262	75	3	50	c) Zone 3	122	2318	75	3	50
d) Zone 4	122	3006	78	3	47	d) Zone 4	122	2972	77	3	48
Noise Impact from Option 2, dB(A) = 58						Noise Impact from Option 2, dB(A) = 57					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>						<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>					
No construction noise impact from concurrent project is anticipated*						No construction noise impact from concurrent project is anticipated*					
Noise Criterion, Leq (5 mins) dB(A) = 60						Noise Criterion, Leq (5 mins) dB(A) = 60					
Exceedance: No						Exceedance: No					
Noise Sensitive Receiver						Noise Sensitive Receiver					
NSR N5 - YMCA Lamma Island Youth Hostel	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	NSR N6 - Village House No.6 Lo So Shing	SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>						<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>					
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	122	2480	76	3	49	a) Zone 1	122	2564	76	3	49
b) Zone 2	122	2314	75	3	50	b) Zone 2	122	2061	74	3	51
c) Zone 3	122	2443	76	3	49	c) Zone 3	122	2052	74	3	51
d) Zone 4	122	2921	77	3	48	d) Zone 4	122	2277	75	3	50
Noise Impact from Option 1, dB(A) = 55						Noise Impact from Option 1, dB(A) = 56					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	122	2480	76	3	49	a) Zone 1	122	2564	76	3	49
b) Zone 2	122	2314	75	3	50	b) Zone 2	122	2061	74	3	51
c) Zone 3	122	2443	76	3	49	c) Zone 3	122	2052	74	3	51
d) Zone 4	122	2921	77	3	48	d) Zone 4	122	2277	75	3	50
Noise Impact from Option 2, dB(A) = 55						Noise Impact from Option 2, dB(A) = 56					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>						<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>					
No construction noise impact from concurrent project is anticipated*						No construction noise impact from concurrent project is anticipated*					
Noise Criterion, Leq (5 mins) dB(A) = 60						Noise Criterion, Leq (5 mins) dB(A) = 60					
Exceedance: No						Exceedance: No					

Remarks:

1. Horizontal distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)

\* According to the approved EIA report "1,800 MW Gas-fired Power Station at Lamma Extension" (Register No.: AEIAR-010/1999), the foundation & substructure, superstructure, structural steelwork and E&M erection phases of the construction works of the Lamma Extension Project would be conducted during day-time period (i.e. 12 hours / day) only.

PME	TM or other reference	No. of PME	SWL, dB(A)/unit	% on time	Mitigation measures	Reduction dB(A)	Total SWL, dB(A)
<b>Improvement Dredging for Lamma Power Station Navigation Channel</b>							
<b>Option 1 - TSHD</b>							
<b>Zone 1</b>							
TSHD	[1]	0	111	100%			0
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>0</b>
<b>Zone 2'</b>							
TSHD	[1]	1	111	100%			111
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>111</b>
<b>Zone 3</b>							
TSHD	[1]	1	111	100%			111
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>111</b>
<b>Zone 4</b>							
TSHD	[1]	1	111	100%			111
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>111</b>
<b>Option 2 - Grab Dredgers</b>							
<b>Zone 1</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	0	112	100%			0
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>0</b>
<b>Group 2</b>							
Tug boat	CNP 221	0	110	100%			0
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>0</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>0</b>
<b>Zone 2'</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	1	112	100%			112
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>112</b>
<b>Group 2</b>							
Tug boat	CNP 221	1	110	100%			110
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>110</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>112</b>
<b>Zone 3</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	1	112	100%			112
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>112</b>
<b>Group 2</b>							
Tug boat	CNP 221	1	110	100%			110
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>110</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>112</b>
<b>Zone 4</b>							
<b>Group 1</b>							
Dredger, grab	CNP 063	1	112	100%			112
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>112</b>
<b>Group 2</b>							
Tug boat	CNP 221	1	110	100%			110
						<b>Total SWL, dB (A)</b>	<b>Total SWL, dB (A)</b>
							<b>110</b>
						<b>Maximum SWL, dB (A)</b>	<b>Maximum SWL, dB (A)</b>
							<b>112</b>

Remark:

[1] SWL is referred to the approved EIA reports include "1,800 MW Gas-fired Power Station at Lamma Extension" (Register No.: AEIAR-010/1999) and "Lamma Power Station Navigation Channel Improvement" (Register No.: AEIAR-069/2003).

Dredging working Zone 2' has been adopted in Option 2.

Noise Sensitive Receiver						Noise Sensitive Receiver					
NSR N1 - Village House No.20, Ko Long						NSR N2 - Northern Lamma School (For Reference Only)					
SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)		SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	
Improvement Dredging for Lamma Power Station Navigation Channel											
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	0	858	67	3	0	a) Zone 1	0	1306	70	3	0
b) Zone 2'	111	1684	73	3	41	b) Zone 2'	111	2183	75	3	39
c) Zone 3	111	2151	75	3	39	c) Zone 3	111	2622	76	3	38
d) Zone 4	111	2927	77	3	37	d) Zone 4	111	3381	79	3	35
Noise Impact from Option 1, dB(A) = 44						Noise Impact from Option 1, dB(A) = 42					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	0	858	67	3	0	a) Zone 1	0	1306	70	3	0
b) Zone 2'	112	1684	73	3	42	b) Zone 2'	112	2183	75	3	40
c) Zone 3	112	2151	75	3	40	c) Zone 3	112	2622	76	3	39
d) Zone 4	112	2927	77	3	38	d) Zone 4	112	3381	79	3	36
Noise Impact from Option 2, dB(A) = 45						Noise Impact from Option 2, dB(A) = 43					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>											
No construction noise impact from concurrent project is anticipated*						No construction noise impact from concurrent project is anticipated*					
Noise Criterion, Leq (5 mins) dB(A) = 45						Noise Criterion, Leq (5 mins) dB(A) = 45					
Exceedance: No						Exceedance: No					
Noise Sensitive Receiver						Noise Sensitive Receiver					
NSR N3 - Village House No.21, Wang Long						NSR N4 - Concerto Inn, Hung Shing Ye					
SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)		SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	
Improvement Dredging for Lamma Power Station Navigation Channel											
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	0	1263	70	3	0	a) Zone 1	0	1843	73	3	0
b) Zone 2'	111	1848	73	3	41	b) Zone 2'	111	2027	74	3	40
c) Zone 3	111	2262	75	3	39	c) Zone 3	111	2318	75	3	39
d) Zone 4	111	3006	78	3	36	d) Zone 4	111	2972	77	3	37
Noise Impact from Option 1, dB(A) = 44						Noise Impact from Option 1, dB(A) = 44					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	0	1263	70	3	0	a) Zone 1	0	1843	73	3	0
b) Zone 2'	112	1848	73	3	42	b) Zone 2'	112	2027	74	3	41
c) Zone 3	112	2262	75	3	40	c) Zone 3	112	2318	75	3	40
d) Zone 4	112	3006	78	3	37	d) Zone 4	112	2972	77	3	38
Noise Impact from Option 2, dB(A) = 45						Noise Impact from Option 2, dB(A) = 45					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>											
No construction noise impact from concurrent project is anticipated*						No construction noise impact from concurrent project is anticipated*					
Noise Criterion, Leq (5 mins) dB(A) = 45						Noise Criterion, Leq (5 mins) dB(A) = 45					
Exceedance: No						Exceedance: No					
Noise Sensitive Receiver						Noise Sensitive Receiver					
NSR N5 - YMCA Lamma Island Youth Hostel						NSR N6 - Village House No.6 Lo So Shing					
SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)		SWL	Dist.(m) <sup>1</sup>	DC <sup>2</sup>	FC <sup>3</sup>	CNL, dB(A)	
Improvement Dredging for Lamma Power Station Navigation Channel											
<b>Option 1 - TSHD</b>						<b>Option 1 - TSHD</b>					
a) Zone 1	0	2480	76	3	0	a) Zone 1	0	2564	76	3	0
b) Zone 2'	111	2326	75	3	39	b) Zone 2'	111	2058	74	3	40
c) Zone 3	111	2443	76	3	38	c) Zone 3	111	2052	74	3	40
d) Zone 4	111	2921	77	3	37	d) Zone 4	111	2277	75	3	39
Noise Impact from Option 1, dB(A) = 43						Noise Impact from Option 1, dB(A) = 44					
<b>Option 2 - Grab Dredgers</b>						<b>Option 2 - Grab Dredgers</b>					
a) Zone 1	0	2480	76	3	0	a) Zone 1	0	2564	76	3	0
b) Zone 2'	112	2326	75	3	40	b) Zone 2'	112	2058	74	3	41
c) Zone 3	112	2443	76	3	39	c) Zone 3	112	2052	74	3	41
d) Zone 4	112	2921	77	3	38	d) Zone 4	112	2277	75	3	40
Noise Impact from Option 2, dB(A) = 44						Noise Impact from Option 2, dB(A) = 45					
<b>Construction of Unit 10 under the 1,800 MW Gas-fired Power Station at Lamma Extension Project</b>											
No construction noise impact from concurrent project is anticipated*						No construction noise impact from concurrent project is anticipated*					
Noise Criterion, Leq (5 mins) dB(A) = 45						Noise Criterion, Leq (5 mins) dB(A) = 45					
Exceedance: No						Exceedance: No					

Remarks:

1. Horizontal distance is adopted for the construction noise assessment
2. Distance correction in dB(A)
3. Facade correction in dB(A)

\* According to the approved EIA report "1,800 MW Gas-fired Power Station at Lamma Extension" (Register No.: AEIAR-010/1999), the foundation & substructure, superstructure, structural steelwork and E&M erection phases of the construction works of the Lamma Extension Project would be conducted during day-time period (i.e. 12 hours / day) only.

■ Dredging working Zone 2' has been adopted in Option 2.