Construction Plant Inventory - Unmitigated Scenario Work Type 1 - Construction of Sewer (Open Cut Method)

Project Specific PME Item	Ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface							
Breaker, hand-held, mass>10kg and <20kg	CNP 024	108	1	30%	-5	103	i
Generator	CNP 103	95	1	100%	0	95	ı
					Total	103.0	0.0
Stage 2 - Excavation of soil material							
Backhoe (mini)	*EPD's	94	1	100%	0	94	-
Generator	CNP 103	95	- 1	100%	0	-	95
Submersible Pump	CNP 283	85	- 1	100%	0	-	85
					Total	94.0	95.0
Stage 3 - Steel fixing & concreting of manholes							
Bar bender and cutter (electric)	CNP 021	90	- 1	20%	-7	-	83
Generator	CNP 103	95	- 1	100%	0	95	95
Poker, vibratory, hand-held	CNP 170	113	- 1	50%	-3	110	-
					Total	110.0	95.0
Stage 4 - Laying of bedding material							
Generator	CNP 103	95	- 1	100%	0	95	
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	
				-	Total	113.0	0.0
Stage 5 - Backfilling and soil compaction							
Vibratory compactor	CNP 055	105	1	50%	-3	102	-
					Total	102.0	0.0
Stage 6 - Reinstatement of road surface	CNP 170	140	_	100%			
Poker, vibratory, hand-held		113	1		0	113	
Generator	CNP 103	95	1	100%	0	95	-
					Total	113.0	0.0

Max Noise Level

Work Type 2 - Construction of Sewer (Trenchless Method)

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Excavation of Pits									
Piling, earth auger, auger	CNP 167	114	1	100%	0	114	-	-	-
Hoist (electric)	CNP 122	95	- 1	100%	0	95	-	-	-
Breaker, excavator mounted	CNP 028	122	1	100%	0	-	122	-	-
Excavator	CNP 081	112	1	100%	0	-	-	112	-
Dumper	CNP 066	106	-1	100%	0	-	-	106	-
Generator	CNP 103	95	1	100%	0	95	-	95	-
Submersible Pump	CNP 283	85	2	100%	0	-	-	88	-
Grout Mixer	*EPD's	90	1	100%	0	-	-	-	90
Grout Pump	*EPD's	105	1	100%	0	-	-	-	105
			•		Total	114.0	122.0	113.0	105.0
Stage 2 - Pipes Laid by Segmental Excavation									
Rock Drill, hand-held (pneumatic)	CNP 183	116	- 1	100%	0	116	-	-	-
Air Compressor	CNP 001	100	1	100%	0	100	-	-	-
Generator	CNP 103	95	- 1	100%	0	95	-	-	-
Dumper	CNP 066	106	-1	70%	-2	104	-	-	-
Hoist (electric)	CNP 122	95	1	70%	-2	93	-	-	
Ventilation Fan	CNP 241	108	2	100%	0	111	-	-	-
Grout Mixer	*EPD's	90	1	100%	0	90	-	-	
Grout Pump	*EPD's	105	-1	100%	0	105	-	-	-
					Total	118.0	0.0	0.0	0.0
Stage 3 - Steel fixing and concreting of manholes						•	•	•	•
Bar bender and cutter (electric)	CNP 021	90	1	20%	-7	83	-	-	
Generator	CNP 103	95	1	100%	0	÷	95		
Poker vibratory hand-held	CNP 170	113	-1	20%	-7	-	106	-	-
					Total	83.0	106.0	0.0	0.0
Stage 4 - Reinstatement of road surface with	Bricks								
No PME Involved					Total	0.0	0.0	0.0	0.0

Remarks:

"EPD - Details extracted from EPD website: http://www.epd.gov/tk/epd/engish/application for licences/buildance/files/Other/SWLe.pdf

Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages. Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 20, 30 and 50 percentage on-time has been given accordingly.

Certain PMEs	will be operated on site for a short
Work Type 3 -	Upgrading of Existing Sewer

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface							
Generator	CNP 103	95	1	100%	0	95	-
Breaker, hand-held, mass>10kg and <20kg	CNP 024	108	1	30%	-5	103	-
					Total	103.0	0.0
Stage 2 - Excavation of soil material							
Backhoe (mini)	*EPD's	94	1	100%	0	94	-
Generator	CNP 103	95	1	100%	0	-	95
Submersible pump (electric)	CNP 283	85	1	100%	0	-	85
					Total	94.0	95.0
Stage 3 - Removal of existing sewers and laying	of new sewers						
Backhoe (mini)	CNP 082	94	1	100%	0	94	-
					Total	94.0	0.0
Stage 4 - Steel fixing and concreting of manhole	s						
Bar Bender and cutter (electirc)	CNP 021	90	1	20%	-7	83	-
Generator	CNP 103	95	1	100%	0		95
Poker vibratory hand-held	CNP 170	113	1	50%	-3	-	110
					Total	83.0	110.0
Stage 5 - Laying of bedding material							
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
Generator	CNP 103	95	1	100%	0	95	-
					Total	113.0	0.0
Stage 6 - Backfilling and soil compaction							
Vibratory compactor	CNP 050	105	1	50%	-3	102	-
<u> </u>				-	Total	102.0	0.0
Stage 7 - Reinstatement of road surface							·
Poker vibratory hand-held	CNP 170	113	1	50%	-3	110	-
Generator	CNP 103	95	1	100%	0	95	-
·					Total	110.0	0.0

Work Type 6 - Rehabilitation of Existing Sewers

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)
Stage 1 - Rehabilitation of Existing Sewers						
Generator	CNP 103	95	1	100%	0	95
Submersible Pump	CNP 283	85	1	100%	0	85
Winch (electric)	CNP 262	95	1	100%	0	95
Grinder, hand held (electric)	CNP 065	98	1	100%	0	98
Air Compressor	CNP 001	100	1	100%	0	100

Max Noise Level

Remarks:

"EPD - Details extracted from EPD website: http://www.epd.gov/th/lepdenglish/application, for Licenses/pudance/files/OtherSWLe.pdf

Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trurk sever, sewer and rising main; and upgrading of existing sewer in the villages. Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 20, 30 and 50 percentage on-time has been given accordingly.

Work Type 5 - Upgrading of Cheung Chau Sewage Treatment Works

Project Specific PME Item	ce			Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 & 2 - Demolish the abandoned filter beds & n	nodificatio	n of pipe							
Breaker, excavator mounted	CNP	028	122	1	100%	0	122	-	-
Dumper	CNP	066	106	1	100%	0	106	-	-
Excavator	CNP	081	112	1	100%	0	112	-	-
Generator	CNP	103	95	1	100%	0	95		
Generator	0.4	100	- 00		10070	Total	123.0	0.0	0.0
Stage 3 - Construction and upgrading of treatment fa	- 19141					TOTAL	125.0	0.0	0.0
	CNP	164	115	1	100%	0		ı	1
Piling, grab and chisel							115	-	-
Piling, oscillator	CNP	165	115	1	100%	0	115	-	-
Piling, reverse circulation drill	CNP	166	100	1	100%	0	100	-	-
Air Compressor	CNP	001	100	-1	100%	0	100	-	-
Wife Wife		052/20		١.					
Welding Machine	*AEIAR	02	78	1	60%	-2	76	-	-
Crane, mobile mounted	CNP	048	112	1	100%	0	112	112	112
Generator	CNP	103	95	-1	100%	0	95	95	95
Breaker, excavator mounted	CNP	028	122	1	100%	0	-	122	-
Excavator	CNP	081	112	1	100%	0	-	112	-
Dumper	CNP	066	106	1	60%	-2	104	104	-
Bar Bender and Cutter	CNP	021	90	1	20%	-7	-	-	83
Concrete Pump	CNP	047	109	2	100%	0	-	-	112
Derrick Barge	CNP	061	104	1	100%	0	_	_	104
	CNP	201	108	1	100%	0	-	-	108
Saw. circular, wood Poker, vibratory, handheld	CNP	170	113	2	100%	0	-	-	116
	CNP	283	85	1	100%	0	-	-	116
Submersible Pump	CNP	283	85	1	100%			85	
						Total	119.0	123.0	119.0
Stage 4 - Demolish existing air blower room and con							ı	ı	
Crane, mobile mounted	CNP		112	1	100%	0	112	112	-
Generator	CNP	103	95	1	100%	0	95	95	-
Breaker, excavator mounted	CNP	028	122	1	100%	0	122		-
Excavator	CNP	081	112	1	100%	0	112		-
Dumper	CNP	066	106	1	100%	0	106		-
Bar Bender and Cutter	CNP	021	90	1	20%	-7	-	83	-
Concrete Pump	CNP	047	109	1	100%	0	-	109	-
Saw, circular, wood	CNP	201	108	1	100%	0	-	108	-
Derrick Barge	CNP	061	104	1	100%	0	-	104	-
Poker, vibratory, handheld	CNP	170	113	2	100%	0		116	
r oker, vibratory, nandrield	CIVI	170	113		10070		123.0	119.0	0.0
						Total	123.0	119.0	0.0
Stage 5 - Demolish of the primary sediment tanks an									
Breaker, excavator mounted	CNP		122	1	100%	0	122	-	-
Excavator	CNP	081	112	1	100%	0	112	-	-
Generator	CNP	103	95	1	100%	0	95	95	-
Dumper	CNP	066	106	1	60%	-2	104	-	-
Compactor, vibratory	CNP	050	105	1	80%	-1	-	104	
						Total	122.0	105.0	0.0
		P - 1	n existir	g prelin	ninary treatmen	t works			
Stage 6 - Construction of the new storm tanks and w	orkshop,	remonsi			100%	0	115	-	-
Piling, grab and chisel	CNP	164	115	- 1					
Piling, grab and chisel Piling, oscillator	CNP	164 165	115	1	100%	0	115	-	-
Piling, grab and chisel Piling, oscillator Piling, reverse circulation drill	CNP CNP	164 165 166	115 100	1	100% 100%	0	115 100	-	-
Piling, grab and chisel Piling, oscillator Piling, reverse circulation drill Air Compressor	CNP CNP CNP	164 165 166 001	115 100 100	1	100% 100% 100%	0 0	115 100 100		
Piling, grab and chisel Piling, oscillator Piling, reverse circulation drill Air Compressor Welding Machine	CNP CNP CNP CNP *AEIAR	164 165 166 001 02	115 100 100 78	1 1	100% 100% 100% 60%	0 0 0 -2	115 100 100 76		-
Piling, grab and chisel Piling, oscillator Piling, reverse circulation drill Air Compressor Welding Machine Trane, mobile mounted	CNP CNP CNP CNP *AEIAR	164 165 166 001 02 048	115 100 100 78 112	1 1 1	100% 100% 100% 60% 100%	0 0 0 -2	115 100 100 76 112	- - - 112	- - - 112
Piling, grab and chisel Piling, ceolator Piling, reverse circulation drill Air Compressor Weding Machine Crane, mobile mounted Generator	CNP CNP CNP CNP *AEIAR CNP	164 165 166 001 02 048 103	115 100 100 78 112 95	1 1 1 1	100% 100% 100% 60% 100%	0 0 0 -2 0	115 100 100 76 112 95	- - - 112 95	- - - 112 95
Piling, grab and chisel Piling, oscillator Piling, reverse circulation drill Air Compressor Welding Machine Crane, mobile mounted Generator Generator	CNP CNP CNP CNP *AEIAR CNP CNP CNP	164 165 166 001 02 048 103 028	115 100 100 78 112 95 122	1 1 1 1 1 1	100% 100% 100% 60% 100% 100%	0 0 0 -2 0 0	115 100 100 76 112 95	- - - 112 95 122	- - - 112 95
Piling, grab and chisel Piling, scellator Piling, reverse circulation drill Air Compressor Welding Machine Crane, mobile mounted Generator Generator Greaker, excavator mounted Excave, modile mounted	CNP CNP CNP CNP *AEIAR CNP CNP CNP CNP CNP	164 165 166 001 02 048 103 028 081	115 100 100 78 112 95 122 112	1 1 1 1 1 1 1	100% 100% 100% 60% 100% 100% 100%	0 0 0 -2 0 0 0	115 100 100 76 112 95	- - - 112 95 122 112	- - - 112 95 -
Piling, grab and chisel Piling, oscillator Piling, reverse circulation drill Air Compressor Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper	CNP CNP CNP CNP *AEIAR CNP CNP CNP CNP CNP CNP	164 165 166 001 02 048 103 028 081	115 100 100 78 112 95 122 112 106	1 1 1 1 1 1 1 1	100% 100% 100% 60% 100% 100% 100% 100%	0 0 0 -2 0 0 0	115 100 100 76 112 95	- - - 112 95 122	- - - 112 95 - -
Piling, grab and chisel Piling, scellator Piling, severe reverse circulation drill Air Compressor Wedding Machine Trane, mobile mounted Generator Generator Greaker, excavator mounted Excavator Dumper Dumper Bar Bender and Cutter	CNP CNP CNP CNP *AEIAR CNP CNP CNP CNP CNP CNP CNP	164 165 166 001 02 048 103 028 081 066	115 100 100 78 112 95 122 112 106 90	1 1 1 1 1 1 1 1 1 1 1	100% 100% 100% 60% 100% 100% 100% 100% 1	0 0 0 -2 0 0 0 0	115 100 100 76 112 95 - - 106	- - 112 95 122 112 106	- - - 112 95 - - - - 83
Piling, grab and chisel Piling, cocilator Piling, reverse circulation drill Air Compressor Weding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter Concrete Pump	CNP CNP CNP CNP *AEIAR CNP	164 165 166 001 02 048 103 028 081 066 021	115 100 100 78 112 95 122 112 106 90	1 1 1 1 1 1 1 1 1 1 1 1	100% 100% 100% 60% 100% 100% 100% 100% 20% 100%	0 0 0 -2 0 0 0 0 0	115 100 100 76 112 95 - - 106	- - 112 95 122 112 106	- - - 112 95 - - - - 83 109
Piling, grab and chisel Piling, socialistor Piling, severage processor Piling, severage Piling, severage Weiding Machine Traner, mobile mounted Generator Ge	CNP CNP CNP CNP *AEIAR CNP	164 165 166 001 02 048 103 028 081 066 021 047	115 100 100 78 112 95 122 112 106 90 109	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100% 100% 100% 60% 100% 100% 100% 100% 1	0 0 0 -2 0 0 0 0 0 0 -7 0	115 100 100 76 112 95 - - 106	- - 112 95 122 112 106 - -	- - 112 95 - - - - 83 109 108
Piling, grab and chisel Piling, cosolator Piling, reverse circulation drill Air Compressor Weding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter Concrete Pump Saw, circular, wood Derrick Barge Derrick Barge	CNP CNP CNP CNP CNP *AEIAR CNP	164 165 166 001 02 048 103 028 081 066 021 047 201	115 100 100 78 112 95 122 112 106 90 109 108	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100% 100% 100% 60% 100% 100% 100% 100% 20% 100% 100%	0 0 0 -2 0 0 0 0 0 0 -7 0	115 100 100 76 112 95 - - 106	- - 112 95 122 112 106	- - 112 95 - - - 83 109 108
Piling, grab and chisel Piling, cocilator Piling, reverse circulation drill Air Compressor Weding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter Concrete Pump	CNP CNP CNP CNP *AEIAR CNP	164 165 166 001 02 048 103 028 081 066 021 047	115 100 100 78 112 95 122 112 106 90 109	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100% 100% 100% 60% 100% 100% 100% 100% 1	0 0 0 -2 0 0 0 0 0 0 -7 0	115 100 100 76 112 95 - - 106	- - 112 95 122 112 106 - -	- - 112 95 - - - - 83 109 108

Max Noise Level

Work Type 4 - Upgrading of Pak She Sewage Pumping Station

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Partial removal of exisiting structur	9				•		
Crane, mobile mounted	CNP 048	112	-1	100%	0	112	-
Generator	CNP 103	95	-1	100%	0	95	95
Breaker, excavator mounted	CNP 028	122	1	100%	0	122	-
Excavator	CNP 081	112	1	100%	0	i	112
Dumper	CNP 066	106	1	60%	-2	-	104
Submersible Pump	CNP 283	85	2	100%	0	-	88
					Total	122.0	113.0
Stage 2 - Partial reconstruction of structures							
Crane, mobile mounted	CNP 048	112	1	100%	0	112	-
Generator	CNP 103	95	1	100%	0	95	-
Bar Bender and Cutter	CNP 021	90	1	100%	0	90	-
Concrete Pump	CNP 047	109	2	100%	0	112	-
Saw, circular, wood	CNP 201	108	1	100%	0	108	-
Poker, vibratory, handheld	CNP 170	113	2	100%	0	116	-
					Total	119.0	0.0
Stage 3 - Replacement of E&M equipments							
Crane, mobile mounted	CNP 048	112	1	100%	0	112	-
Generator	CNP 103	95	1	100%	0	95	-
Vinch (electric)	CNP 262	95	1	100%	0	95	-
Drill/grinder, hand-held	CNP 065	98	1	100%	0	98	-
					Total	112.0	0.0

Max Noise Level 122.0

Remarks:

AEWA-R65/2002: Noise level of PME extracted from the Approved EIA Report in the Register. AEIAR-05/2/2002

Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of funk sewer, sewer and rising main; and upgrading of existing sewer in the villages.

Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 10, 20, 30, 60, 70 and 80 percentage on-time has been given accordingly.

Construction Plant Inventory - Unmitigated Scenario Work Type 1 - Construction of Sewer (Open Cut Method)

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface							
Breaker, hand-held, mass>10kg and <20kg	CNP 024	108	1	30%	-5	103	-
Generator	CNP 103	95	1	100%	0	95	-
					Total	103.0	0.0
Stage 2 - Excavation of soil material							
Backhoe (mini)	*EPD's	94	1	100%	0	94	-
Generator	CNP 103	95	1	100%	0	-	95
Submersible Pump	CNP 283	85	1	100%	0	-	85
•	•				Total	94.0	95.0
Stage 3 - Steel fixing & concreting of manholes							
Bar bender and cutter (electric)	CNP 021	90	1	20%	-7	-	83
Generator	CNP 103	95	1	100%	0	95	95
Poker, vibratory, hand-held	CNP 170	113	1	50%	-3	110	-
					Total	110.0	95.0
Stage 4 - Laying of bedding material							
Generator	CNP 103	95	1	100%	0	95	-
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
					Total	113.0	0.0
Stage 5 - Backfilling and soil compaction							
/ibratory compactor	CNP 055	105	1	50%	-3	102	-
					Total	102.0	0.0
Stage 6 - Reinstatement of road surface							•
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
Generator	CNP 103	95	1	100%	0	95	-
					Total	113.0	0.0

Max	Noise Level
	113.0

Remarks:

"EPD - Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application for licences/guidance/files/OtherSWLe.pdf

Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages. Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 20, 30 and 50 percentage on-time has been given accordingly.

Construction Plant Inventory - Unmitigated Scenario Work Type 2 - Construction of Sewer (Trenchless Method)

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Excavation of Pits									
Piling, earth auger, auger	CNP 167	114	1	100%	0	114			
Hoist (electric)	CNP 122	95	1	100%	0	95			
Breaker, excavator mounted	CNP 028	122	1	100%	0		122		
Excavator	CNP 081	112	1	100%	0			112	
Dumper	CNP 066	106	1	100%	0			106	
Generator	CNP 103	95	1	100%	0	95		95	
Submersible Pump	CNP 283	85	2	100%	0			88	
Grout Mixer	*EPD's	90	1	100%	0				90
Grout Pump	*EPD's	105	1	100%	0				105
•					Total	114.0	122.0	113.0	105.0
Stage 2 - Pipes Laid by Segmental Excavation									
Rock Drill, hand-held (pneumatic)	CNP 183	116	1	100%	0	116			
Air Compressor	CNP 001	100	1	100%	0	100			
Generator	CNP 103	95	1	100%	0	95			
Dumper	CNP 066	106	1	70%	-2	104			
Hoist (electric)	CNP 122	95	1	70%	-2	93			
Ventilation Fan	CNP 241	108	2	100%	0	111			
Grout Mixer	*EPD's	90	1	100%	0	90			
Grout Pump	*EPD's	105	1	100%	0	105			
					Total	118.0	0.0	0.0	0.0
Stage 3 - Steel fixing and concreting of manholes									
Bar bender and cutter (electric)	CNP 021	90	1	20%	-7	83			
Generator	CNP 103	95	1	100%	0		95		
Poker, vibratory, hand-held	CNP 170	113	1	50%	-3	-	110		
Stage 4 - Reinstatement of road surface with Bricks					Total	83.0	110.0	0.0	0.0
No PME Involved					Total	0.0	0.0	0.0	0.0

Max Noise Level

Remarks:

"EPD - Details extracted from EPD website: https://www.upd.gov.hk/epolengish/application for licences/guidance/files/Other/SWL a.pdf

Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.

Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 70 percentage on-time has been given accordingly.

Construction Plant Inventory - Unmitigated Scenario Work Type 3 - Upgrading of Existing Sewer

Project Specific PME Item	nce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface							
Generator	CNP 103	95	1	100%	0	95	-
Breaker, hand-held, mass>10kg and <20kg	CNP 024	108	1	30%	-5	103	-
	•				Total	103.0	0.0
Stage 2 - Excavation of soil material							
Backhoe (mini)	*EPD's	94	1	100%	0	94	-
Generator	CNP 103	95	1	100%	0		95
Submersible pump (electric)	CNP 283	85	1	100%	0		85
	•				Total	94.0	95.0
Stage 3 - Removal of existing sewers and laying of new se	wers						
Backhoe (mini)	CNP 082	94	1	100%	0	94	-
			•		Total	94.0	0.0
Stage 4 - Steel fixing and concreting of manholes							
Bar Bender and cutter (electirc)	CNP 021	90	1	20%	-7	83	-
Generator	CNP 103	95	1	100%	0		95
Poker, vibratory, hand-held	CNP 170	113	1	50%	-3		110
					Total	83.0	110.0
Stage 5 - Laying of bedding material							
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
Generator	CNP 103	95	1	100%	0	95	-
					Total	113.0	0.0
Stage 6 - Backfilling and soil compaction							
Vibratory compactor	CNP 050	105	1	50%	-3	102	-
					Total	102.0	0.0
Stage 7 - Reinstatement of road surface							
Poker, vibratory, hand-held	CNP 170	113	1	50%	-3	110	-
Generator	CNP 103	95	1	100%	0	95	-
					Total	110.0	0.0

Max Noise Level

Remarks:

"EPD - Details extracted from EPD website: http://www.epd.gov/bk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.

Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 20, 30, 50 and 70 percentage on-time has been given accordingly.

Construction Plant Inventory - Unmitigated Scenario Work Type 4 - Upgrading of Pak She Sewage Pumping Station

Project Specific PME Item	ence	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Partial removal of exisiting structure							
Crane, mobile mounted	CNP 048	112	1	100%	0	112	-
Generator	CNP 103	95	1	100%	0	95	95
Breaker, excavator mounted	CNP 028	122	1	100%	0	122	-
Excavator	CNP 081	112	1	100%	0	-	112
Dumper	CNP 066	106	1	60%	-2	-	104
Submersible Pump	CNP 283	85	2	100%	0	-	88
•					Total	122.0	113.0
Stage 2 - Partial reconstruction of structures							
Crane, mobile mounted	CNP 048	112	1	100%	0	112	-
Generator	CNP 103	95	1	100%	0	95	-
Bar Bender and Cutter	CNP 021	90	1	100%	0	90	-
Concrete Pump	CNP 047	109	2	100%	0	112	-
Saw, circular, wood	CNP 201	108	1	100%	0	108	-
Poker, vibratory, handheld	CNP 170	113	2	100%	0	116	-
					Total	119.0	0.0
Stage 3 - Replacement of E&M equipments							
Crane, mobile mounted	CNP 048	112	1	100%	0	112	-
Generator	CNP 103	95	1	100%	0	95	-
Winch (electric)	CNP 262	95	1	100%	0	95	-
Drill/grinder, hand-held	CNP 065	98	1	100%	0	98	-
•					Total	112.0	0.0

Max Noise Level

Remarks:

Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.

Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 30 and 60 percentage on-time has been given accordingly.

Construction Plant Inventory - Unmitigated Scenario Work Type 5 - Upgrading of Cheung Chau Sewage Treatment Works

Project Specific PME Item	Reference		dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 & 2 - Demolish the abandoned filter beds & modification	n of pipework								
Breaker, excavator mounted	CNP	028	122	1	100%	0	122	-	-
Dumper	CNP	066	106	1	100%	0	106	-	-
Excavator	CNP	081	112	1	100%	0	112	-	-
Generator	CNP	103	95	1	100%	0	95	-	-
						Total	123.0	0.0	0.0
Stage 3 - Construction and upgrading of treatment facilities									
Piling, grab and chisel	CNP	164	115	1	100%	0	115	-	
Piling, oscillator	CNP	165	115	1	100%	0	115	-	
Piling, reverse circulation drill	CNP	166	100	1	100%	0	100	-	
Air Compressor	CNP	001	100	1	100%	0	100	-	
Welding Machine	*AEIAR	052/2002	78	1	100%	0	78	-	-
Crane, mobile mounted	CNP	048	112	1	100%	0	112	112	112
Generator	CNP	103	95	1	100%	0	95	95	95
Breaker, excavator mounted	CNP	028	122	1	100%	0	-	122	
Excavator	CNP	081	112	2	100%	0	-	115	
Dumper	CNP	066	106	1	100%	0	106	106	
Bar Bender and Cutter	CNP	021	90	1	100%	0	-	-	90
Concrete Pump	CNP	047	109	2	100%	0	-	-	112
Derrick Barge	CNP	061	104	1	100%	0	-	-	104
Saw, circular, wood	CNP	201	108	1	100%	0	-	-	108
Poker, vibratory, handheld	CNP	170	113	2	100%	0	-	-	116
Submersible Pump	CNP	283	85	2	100%	0	-	88	-
		•	•	•	•	Total	119.0	123.0	119.0
Stage 4 - Demolish existing air blower room and construction of	of the new pum	p house					•	•	
Crane, mobile mounted	CNP	048	112	1	100%	0	112	112	-
Generator	CNP	103	95	1	100%	0	95	95	-
Breaker, excavator mounted	CNP	028	122	1	100%	0	122		-
Excavator	CNP	081	112	1	100%	0	112		-
Dumper	CNP	066	106	1	100%	0	106		-
Bar Bender and Cutter	CNP	021	90	1	100%	0	-	90	-
Concrete Pump	CNP	047	109	2	100%	0	-	112	-
Saw, circular, wood	CNP	201	108	1	100%	0	-	108	-
Derrick Barge	CNP	061	104	1	100%	0	-	104	
Poker, vibratory, handheld	CNP	170	113	2	100%	0	-	116	
		•	•	•	•	Total	123.0	119.0	0.0
Stage 5 - Demolish of the primary sediment tanks and sludge of	ligestor, laying	of new pipew	orks						
Breaker, excavator mounted	CNP	028	122	1	100%	0	122	-	-
Excavator	CNP	081	112	1	100%	0	112	-	-
Generator	CNP	103	95	1	100%	0	95	95	
Dumper	CNP	066	106	1	100%	0	106	-	-
Compactor, vibratory	CNP	050	105	1	100%	0	-	105	-
						Total	123.0	105.0	0.0
Stage 6 - Construction of the new storm tanks and workshop, or	lemolish existir	g preliminary	y treatme	nt work					
Piling, grab and chisel	CNP		115	1	100%	0	115	-	-
Piling, oscillator	CNP		115	1	100%	0	115	-	
Piling, reverse circulation drill Air Compressor	CNP		100	1	100%	0	100 100	-	-
		UUI			100%			-	-
		052/2002	78			n			
Welding Machine Crane, mobile mounted		052/2002 048	78 112	1	100%	0	78 112	112	112
Welding Machine	*AEIAR CNP								
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted	*AEIAR CNP CNP CNP	048 103 028	112 95 122	1 1 1	100% 100% 100%	0 0 0	112 95 -	112 95 122	112 95 -
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator	*AEIAR CNP CNP CNP CNP	048 103 028 081	112 95 122 112	1 1 1 2	100% 100% 100% 100%	0 0 0	112 95 - -	112 95 122 115	112 95
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper	*AEIAR CNP CNP CNP CNP CNP	048 103 028 081 066	112 95 122 112 106	1 1 1 2	100% 100% 100% 100% 100%	0 0 0 0	112 95 - - 106	112 95 122 115 106	112 95 - -
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter	*AEIAR CNP CNP CNP CNP CNP CNP CNP	048 103 028 081 066 021	112 95 122 112 106 90	1 1 1 2 1	100% 100% 100% 100% 100%	0 0 0 0 0	112 95 - - 106	112 95 122 115 106	112 95 - - - 90
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter Concrete Pump	*AEIAR CNP CNP CNP CNP CNP CNP CNP CNP CNP	048 103 028 081 066 021 047	112 95 122 112 106 90 109	1 1 1 2 1 1 2	100% 100% 100% 100% 100% 100% 100%	0 0 0 0 0 0	112 95 - - 106 -	112 95 122 115 106	112 95 - - - 90 112
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter Concrete Pump Saw, circular, wood	*AEIAR CNP	048 103 028 081 066 021 047 201	112 95 122 112 106 90 109	1 1 1 2 1 1 2 1	100% 100% 100% 100% 100% 100% 100%	0 0 0 0 0	112 95 - - 106 - -	112 95 122 115 106	112 95 - - - 90 112 108
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter Concrete Pump	*AEIAR CNP	048 103 028 081 066 021 047	112 95 122 112 106 90 109 108 104	1 1 1 2 1 1 2	100% 100% 100% 100% 100% 100% 100%	0 0 0 0 0 0	112 95 - - 106 -	112 95 122 115 106	112 95 - - - 90 112
Welding Machine Crane, mobile mounted Generator Breaker, excavator mounted Excavator Dumper Bar Bender and Cutter Concrete Pump Saw, circular, wood Demrick Barge	*AEIAR CNP	048 103 028 081 066 021 047 201 061	112 95 122 112 106 90 109	1 1 1 2 1 1 2 1 1	100% 100% 100% 100% 100% 100% 100% 100%	0 0 0 0 0 0 0 0	112 95 - - 106 - -	112 95 122 115 106 -	112 95 - - - 90 112 108

Max Noise Level

Remarks:

AEJAR-052/2002: Noise level of PME extracted from the Approved EIA Report in the Register. AEJAR-052/2002

Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages. Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 10, 20, 30, 60, 70 and 80 percentage on-time has been given accordingly.

Construction Plant Inventory - Unmitigated Scenario Work Type 6 - Rehabilitation of Existing Sewers

Project Specific PME Item	ence	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)		
Stage 1 - Rehabilitation of Existing Sewers								
Generator	CNP 103	95	1	100%	0	95		
Submersible Pump	CNP 283	85	1	100%	0	85		
Winch (electric)	CNP 262	95	1	100%	0	95		
Grinder, hand held (electric)	CNP 065	98	1	100%	0	98		
Air Compressor	CNP 001	100	1	100%	0	100		
	104.0							

Max Noise Level

Construction Plant Inventory - Unmitigated Scenario Work Type 7 - Temporary Concrete Mixing

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)		
Stage 1 - Operation of concrete mixer									
Concrete mixer (petrol)	CNP 046	96	1	100%	0	96	-		
					Total	96.0	0.0		

Max Noise Level 96.0

Remarks: