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

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Barrier 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	-10	93	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	93.0	0.0
Stage 2 - Excavation of soil material								
Backhoe (mini)	*EPD-GN	94	1	100%	0	-5	89	-
Generator	BS C4/77	88	1	100%	0	-10	-	78
Submersible Pump	CNP 283	85	1	100%	0	-10	-	75
						Total	89.0	80.0
Stage 3 - Steel fixing & concreting of manholes								
Bar bender and cutter (electric)	CNP 021	90	1	20%	-7	-10	-	73
Generator	BS C4/77	88	1	100%	0	-10	78	78
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	84	-
						Total	85.0	79.0
Stage 4 - Laying of bedding material								
Generator	BS C4/77	88	1	100%	0	-10	-	78
Poker, vibratory, hand-held	BS C4/34	97	1	100%	0	-10	-	87
						Total	0.0	88.0
Stage 5 - Backfilling and soil compaction								
Vibratory compactor	QPME EPD 00055	102	1	50%	-3	-10	89	-
						Total	89.0	0.0
Stage 6 - Reinstatement of road surface								
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	84	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	85.0	0.0

Max Noise Level
93.0

Work Type 2 - Construction of Sewer (Trenchless Method)

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Excavation of Pits										
Piling Rig	BS C3/14	111	1	100%	0	-10	101	-	-	-
Hoist (electric)	CNP 122	95	1	100%	0	-10	85	-	-	-
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	-5	-	108	-	-
Excavator	BS C4/65	99	1	100%	0	-5	-	-	94	-
Dumper (7 t)	BS C4/3	104	1	100%	0	-5	-	-	99	-
Generator	BS C4/77	88	1	100%	0	-10	78	-	78	-
Submersible Pump	CNP 283	85	2	100%	0	-10	-	-	78	-
Grout Mixer	*EPD-GN	90	1	100%	0	-10	-	-	-	80
Grout Pump	*EPD-GN	105	1	100%	0	-10	-	-	-	95
						Total	101.0	108.0	100.0	95.0
Stage 2 - Pipe Laid by Segmental Excavation										
Rock Drill, hand-held (pneumatic)	CNP 183	116	1	100%	0	-10	106	-	-	-
Air Compressor	BS D7/24	95	1	100%	0	-10	85	-	-	-
Generator	BS C4/77	88	1	100%	0	-10	78	-	-	-
Dumper (7 t)	BS C4/3	104	1	70%	-2	-5	97	-	-	-
Hoist (electric)	CNP 122	95	1	70%	-2	-10	83	-	-	-
Ventilation Fan	CNP 241	108	2	100%	0	-10	101	-	-	-
Grout Mixer	*EPD-GN	90	1	100%	0	-10	80	-	-	-
Grout Pump	*EPD-GN	105	1	100%	0	-10	95	-	-	-
						Total	108.0	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	-10	73	-	-	-
Generator	BS C4/77	88	1	100%	0	-10	-	78	-	-
Poker, vibratory, hand-held	BS C4/34	97	1	20%	-7	-10	-	80	-	-
						Total	73.0	82.0	0.0	0.0
Stage 4 - Reinstatement of road surface with Bricks										
No PME Involved						Total	0.0	0.0	0.0	0.0

Max Noise Level
108.0

Work Type 3 - Upgrading of Existing Sewer

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface								
Generator	BS C4/77	88	1	100%	0	-10	78	-
Breaker, hand-held, mass>10kg and <20kg	CNP 024	108	1	30%	-5	-10	93	-
						Total	93.0	0.0
Stage 2 - Excavation of soil material								
Backhoe (mini)	CNP 082	94	1	100%	0	-5	89	-
Generator	BS C4/77	88	1	100%	0	-10	-	78
Submersible pump (electric)	CNP 283	85	1	100%	0	-10	-	75
						Total	89.0	80.0
Stage 3 - Removal of existing sewers and laying of new sewers								
Backhoe (mini)	CNP 082	94	1	100%	0	-5	89	-
						Total	89.0	0.0
Stage 4 - Steel fixing and concreting of manholes								
Bar Bender and cutter (electirc)	CNP 021	90	1	20%	-7	-10	73	-
Generator	BS C4/77	88	1	100%	0	-10	-	78
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	-	84
						Total	73.0	85.0
Stage 5 - Laying of bedding material								
Poker, vibratory, hand-held	BS C4/34	97	1	100%	0	-10	87	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	88.0	0.0
Stage 6 - Backfilling and soil compaction								
Vibratory compactor	QPME EPD 00055	102	1	50%	-3	-10	89	-
						Total	89.0	0.0
Stage 7 - Reinstatement of road surface								
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	84	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	85.0	0.0

Max Noise Level
93.0

Work Type 6 - Rehabilitation of Existing Sewers

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)
Stage 1 - Rehabilitation of Existing Sewers							
Generator	BS C4/77	88	1	100%	0	-10	78
Submersible Pump	CNP 283	85	1	100%	0	-10	75
Winch (electric)	CNP 262	95	1	100%	0	-10	85
Grinder, hand held (electric)	CNP 065	98	1	100%	0	-10	88
Air Compressor	BS D7/24	95	1	100%	0	-10	85
					Total		91.0

Max Noise Level
91.0

Remarks:
*EPD-GN - EPD Guidance Note on Sound Power Level on Other Commonly Use PME (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.

Work Type 5 - Upgrading of Cheung Chau Sewage Treatment Works

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 & 2 - Demolish the abandoned filter beds & modification of pipework									
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	113	-	-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104	-	-
Excavator	BS C4/65	99	1	100%	0	0	99	-	-
Generator	BS C4/77	88	1	100%	0	0	88	-	-
						Total	114.0	0.0	0.0
Stage 3 - Construction and upgrading of treatment facilities									
Piling, grab and chisel	CNP 164	115	1	100%	0	0	115	-	-
Piling, oscillator	CNP 165	115	1	100%	0	0	115	-	-
Piling, reverse circulation drill	CNP 166	100	1	100%	0	0	100	-	-
Air Compressor	BS D7/24	95	1	100%	0	0	95	-	-
Welding Machine	*AEIAR 2	78	1	60%	-2	0	76	-	-
Tracked Mobile Crane	BS C4/50	99	1	100%	0	0	99	99	99
Generator	BS C4/77	88	1	100%	0	0	88	88	88
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	-	113	-
Excavator	BS C4/65	99	1	100%	0	0	-	99	-
Dumper (7 t)	BS C4/3	104	1	60%	-2	0	102	102	-
Bar Bender and Cutter	CNP 021	90	1	20%	-7	0	-	-	83
Concrete Pump	BS C3/25	106	2	100%	0	0	-	-	109
Derrick Barge	CNP 061	104	1	100%	0	0	-	-	104
Saw, circular, wood	CNP 201	108	1	100%	0	0	-	-	108
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	0	-	-	100
Submersible Pump	CNP 283	85	1	100%	0	0	-	85	-
						Total	118.0	114.0	113.0
Stage 4 - Demolish existing air blower room and construction of the new pump house									
Crane, mobile mounted	BS C4/50	99	1	100%	0	0	99	99	-
Generator	BS C4/77	88	1	100%	0	0	88	88	-
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	113		-
Excavator	BS C4/65	99	1	100%	0	0	99		-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104		-
Bar Bender and Cutter	CNP 021	90	1	20%	-7	0	-	83	-
Concrete Pump	BS C3/25	106	1	100%	0	0	-	106	-
Saw, circular, wood	CNP 201	108	1	100%	0	0	-	108	-
Derrick Barge	CNP 061	104	1	100%	0	0	-	104	-
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	0	-	100	-
						Total	114.0	112.0	0.0
Stage 5 - Demolish of the primary sediment tanks and sludge digestor, laying of new pipeworks									
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	113	-	-
Excavator	BS C4/65	99	1	100%	0	0	99	-	-
Generator	BS C4/77	88	1	100%	0	0	88	88	-
Dumper (7 t)	BS C4/3	104	1	60%	-2	0	102	-	-
Compactor, vibratory	QPME EPD 00055	102	1	80%	-1	0	-	101	-
						Total	113.0	101.0	0.0
Stage 6 - Construction of the new storm tanks and workshop, demolish existing preliminary treatment works									
Piling, grab and chisel	CNP 164	115	1	100%	0	0	115	-	-
Piling, oscillator	CNP 165	115	1	100%	0	0	115	-	-
Piling, reverse circulation drill	CNP 166	100	1	100%	0	0	100	-	-
Air Compressor	BS D7/24	95	1	100%	0	0	95	-	-
Welding Machine	*AEIAR 2	78	1	60%	-2	0	76	-	-
Crane, mobile mounted	BS C4/50	99	1	100%	0	0	99	99	99
Generator	BS C4/77	88	1	100%	0	0	88	88	88
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	-	113	-
Excavator	BS C4/65	99	1	100%	0	0	-	99	-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104	104	-
Bar Bender and Cutter	CNP 021	90	1	20%	-7	0	-	-	83
Concrete Pump	BS C3/25	106	1	100%	0	0	-	-	106
Saw, circular, wood	CNP 201	108	1	100%	0	0	-	-	108
Derrick Barge	CNP 061	104	1	100%	0	0	-	-	104
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	0	-	-	100
Submersible Pump	CNP 283	85	1	100%	0	0	-	85	-
						Total	118.0	114.0	112.0

Max Noise Level
118.0

Remarks:
AEIAR-052/2002: Noise level of PME extracted from the Approved EIA Report in the Register: AEIAR-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 20, 60 and 80 percentage on-time has been given accordingly.

Work Type 4 - Upgrading of Pak She Sewage Pumping Station

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Partial removal of exisiting structure								
Crane, mobile mounted	BS C4/50	99	1	100%	0	-5	94	-
Generator	BS C4/77	88	1	100%	0	-5	83	83
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	-5	108	-
Excavator	BS C4/65	99	1	100%	0	-5	-	94
Dumper (7 t)	BS C4/3	104	1	60%	-2	-5	-	97
Submersible Pump	CNP 283	85	2	100%	0	-5	-	83
					Total		108.0	99.0
Stage 2 - Partial reconstruction of structures								
Crane, mobile mounted	BS C4/50	99	1	100%	0	-5	94	-
Generator	BS C4/77	88	1	100%	0	-5	83	-
Bar Bender and Cutter	CNP 021	90	1	100%	0	-5	85	-
Concrete Pump	BS C3/25	106	2	100%	0	-5	104	-
Saw, circular, wood	CNP 201	108	1	100%	0	-5	103	-
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	-5	95	-
					Total		107.0	0.0
Stage 3 - Replacement of E&M equipments								
Crane, mobile mounted	BS C4/50	99	1	100%	0	-5	94	-
Generator	BS C4/77	88	1	100%	0	-5	83	-
Winch (electric)	CNP 262	95	1	100%	0	-5	90	-
Drill/grinder, hand-held	CNP 065	98	1	100%	0	-5	93	-
					Total		97.0	0.0

Max Noise Level
108.0

Remarks:
a -5 dB(A) screening correction is assumed for site hoardings
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 60 percentage on-time has been given accordingly.

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

Project Specific PME Item	Reference	dB(A)	Items	On-time %	On-time Cor.	Barrier 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	-10	93	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	93.0	0.0
Stage 2 - Excavation of soil material								
Backhoe (mini)	*EPD-GN	94	1	100%	0	-5	89	-
Generator	BS C4/77	88	1	100%	0	-10	-	78
Submersible Pump	CNP 283	85	1	100%	0	-10	-	75
						Total	89.0	80.0
Stage 3 - Steel fixing & concreting of manholes								
Bar bender and cutter (electric)	CNP 021	90	1	20%	-7	-10	-	73
Generator	BS C4/77	88	1	100%	0	-10	78	78
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	84	-
						Total	85.0	79.0
Stage 4 - Laying of bedding material								
Generator	BS C4/77	88	1	100%	0	-10	-	78
Poker, vibratory, hand-held	BS C4/34	97	1	100%	0	-10	-	87
						Total	0.0	88.0
Stage 5 - Backfilling and soil compaction								
Vibratory compactor	QPME EPD 00055	102	1	50%	-3	-10	89	-
						Total	89.0	0.0
Stage 6 - Reinstatement of road surface								
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	84	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	85.0	0.0

Max Noise Level
93.0

Remarks:
*EPD-GN - EPD Guidance Note on Sound Power Level on Other Commonly Use PME (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 - Mitigated Scenario
Work Type 2 - Construction of Sewer (Trenchless Method)

Project Specific PME Item	e	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Excavation of Pits										
Piling Rig	BS C3/14	111	1	100%	0	-10	101	-	-	-
Hoist (electric)	CNP 122	95	1	100%	0	-10	85	-	-	-
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	-5	-	108	-	-
Excavator	BS C4/65	99	1	100%	0	-5	-	-	94	-
Dumper (7 t)	BS C4/3	104	1	100%	0	-5	-	-	99	-
Generator	BS C4/77	88	1	100%	0	-10	78	-	78	-
Submersible Pump	CNP 283	85	2	100%	0	-10	-	-	78	-
Grout Mixer	*EPD's	90	1	100%	0	-10	-	-	-	80
Grout Pump	*EPD's	105	1	100%	0	-10	-	-	-	95
						Total	101.0	108.0	100.0	95.0
Stage 2 - Pipe Laid by Segmental Excavation										
Rock Drill, hand-held (pneumatic)	CNP 183	116	1	100%	0	-10	106	-	-	-
Air Compressor	BS D7/24	95	1	100%	0	-10	85	-	-	-
Generator	BS C4/77	88	1	100%	0	-10	78	-	-	-
Dumper (7 t)	BS C4/3	104	1	70%	-2	-5	97	-	-	-
Hoist (electric)	CNP 122	95	1	70%	-2	-10	83	-	-	-
Ventilation Fan	CNP 241	108	2	100%	0	-10	101	-	-	-
Grout Mixer	*EPD's	90	1	100%	0	-10	80	-	-	-
Grout Pump	*EPD's	105	1	100%	0	-10	95	-	-	-
						Total	108.0	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	-10	73	-	-	-
Generator	BS C4/77	88	1	100%	0	-10	-	78	-	-
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	-	84	-	-
						Total	73.0	85.0	0.0	0.0
Stage 4 - Reinstatement of road surface with Bricks										
No PME Involved						Total	0.0	0.0	0.0	0.0

Max Noise Level
108.0

Remarks:
*EPD-GN - EPD Guidance Note on Sound Power Level on Other Commonly Use PME (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 and 70 percentage on-time has been given accordingly.

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

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface								
Generator	BS C4/77	88	1	100%	0	-10	78	-
Breaker, hand-held, mass>10kg and <20kg	CNP 024	108	1	30%	-5	-10	93	-
						Total	93.0	0.0
Stage 2 - Excavation of soil material								
Backhoe (mini)	CNP 082	94	1	100%	0	-5	89	-
Generator	BS C4/77	88	1	100%	0	-10	-	78
Submersible pump (electric)	CNP 283	85	1	100%	0	-10	-	75
						Total	89.0	80.0
Stage 3 - Removal of existing sewers and laying of new sewers								
Backhoe (mini)	CNP 082	94	1	100%	0	-5	89	-
						Total	89.0	0.0
Stage 4 - Steel fixing and concreting of manholes								
Bar Bender and cutter (electirc)	CNP 021	90	1	20%	-7	-10	73	-
Generator	BS C4/77	88	1	100%	0	-10	-	78
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	-	84
						Total	73.0	85.0
Stage 5 - Laying of bedding material								
Poker, vibratory, hand-held	BS C4/34	97	1	100%	0	-10	87	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	88.0	0.0
Stage 6 - Backfilling and soil compaction								
Vibratory compactor	QPME EPD 00055	102	1	50%	-3	-10	89	-
						Total	89.0	0.0
Stage 7 - Reinstatement of road surface								
Poker, vibratory, hand-held	BS C4/34	97	1	50%	-3	-10	84	-
Generator	BS C4/77	88	1	100%	0	-10	78	-
						Total	85.0	0.0

Max Noise Level
93.0

Remarks:
*EPD-GN - EPD Guidance Note on Sound Power Level on Other Commonly Use PME (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 - Mitigated Scenario
Work Type 4 - Upgrading of Pak She Sewage Pumping Station

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Partial removal of exisiting structure								
Crane, mobile mounted	BS C4/50	99	1	100%	0	-5	94	-
Generator	BS C4/77	88	1	100%	0	-5	83	83
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	-5	108	-
Excavator	BS C4/65	99	1	100%	0	-5	-	94
Dumper (7 t)	BS C4/3	104	1	60%	-2	-5	-	97
Submersible Pump	CNP 283	85	2	100%	0	-5	-	83
					Total		108.0	99.0
Stage 2 - Partial reconstruction of structures								
Crane, mobile mounted	BS C4/50	99	1	100%	0	-5	94	-
Generator	BS C4/77	88	1	100%	0	-5	83	-
Bar Bender and Cutter	CNP 021	90	1	100%	0	-5	85	-
Concrete Pump	BS C3/25	106	2	100%	0	-5	104	-
Saw, circular, wood	CNP 201	108	1	100%	0	-5	103	-
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	-5	95	-
					Total		107.0	0.0
Stage 3 - Replacement of E&M equipments								
Crane, mobile mounted	BS C4/50	99	1	100%	0	-5	94	-
Generator	BS C4/77	88	1	100%	0	-5	83	-
Winch (electric)	CNP 262	95	1	100%	0	-5	90	-
Drill/grinder, hand-held	CNP 065	98	1	100%	0	-5	93	-
					Total		97.0	0.0

Max Noise Level
108.0

Remarks:
a -5 dB(A) screening correction is assumed for site hoardings
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 60 percentage on-time has been given accordingly.

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

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 & 2 - Demolish the abandoned filter beds & modification of pipework									
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	113	-	-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104	-	-
Excavator	BS C4/65	99	1	100%	0	0	99	-	-
Generator	BS C4/77	88	1	100%	0	0	88	-	-
						Total	114.0	0.0	0.0
Stage 3 - Construction and upgrading of treatment facilities									
Piling, grab and chisel	CNP 164	115	1	100%	0	0	115	-	-
Piling, oscillator	CNP 165	115	1	100%	0	0	115	-	-
Piling, reverse circulation drill	CNP 166	100	1	100%	0	0	100	-	-
Air Compressor	BS D7/24	95	1	100%	0	0	95	-	-
Welding Machine	*AEIAR 052/2002	78	1	100%	0	0	78	-	-
Tracked Mobile Crane	BS C4/50	99	1	100%	0	0	99	99	99
Generator	BS C4/77	88	1	100%	0	0	88	88	88
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	-	113	-
Excavator	BS C4/65	99	2	100%	0	0	-	102	-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104	104	-
Bar Bender and Cutter	CNP 021	90	1	100%	0	0	-	-	90
Concrete Pump	BS C3/25	106	2	100%	0	0	-	-	109
Derrick Barge	CNP 061	104	1	100%	0	0	-	-	104
Saw, circular, wood	CNP 201	108	1	100%	0	0	-	-	108
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	0	-	-	100
Submersible Pump	CNP 283	85	2	100%	0	0	-	88	-
						Total	118.0	114.0	113.0
Stage 4 - Demolish existing air blower room and construction of the new pump house									
Crane, mobile mounted	BS C4/50	99	1	100%	0	0	99	99	-
Generator	BS C4/77	88	1	100%	0	0	88	88	-
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	113		-
Excavator	BS C4/65	99	1	100%	0	0	99		-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104		-
Bar Bender and Cutter	CNP 021	90	1	100%	0	0	-	90	-
Concrete Pump	BS C3/25	106	2	100%	0	0	-	109	-
Saw, circular, wood	CNP 201	108	1	100%	0	0	-	108	-
Derrick Barge	CNP 061	104	1	100%	0	0	-	104	-
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	0	-	100	-
						Total	114.0	113.0	0.0
Stage 5 - Demolish of the primary sediment tanks and sludge digestor, laying of new pipeworks									
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	113	-	-
Excavator	BS C4/65	99	1	100%	0	0	99	-	-
Generator	BS C4/77	88	1	100%	0	0	88	88	-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104	-	-
Compactor, vibratory	QPME EPD 00055	102	1	100%	0	0	-	102	-
						Total	114.0	102.0	0.0
Stage 6 - Construction of the new storm tanks and workshop, demolish existing preliminary treatment works									
Piling, grab and chisel	CNP 164	115	1	100%	0	0	115	-	-
Piling, oscillator	CNP 165	115	1	100%	0	0	115	-	-
Piling, reverse circulation drill	CNP 166	100	1	100%	0	0	100	-	-
Air Compressor	BS D7/24	95	1	100%	0	0	95	-	-
Welding Machine	*AEIAR 052/2002	78	1	100%	0	0	78	-	-
Crane, mobile mounted	BS C4/50	99	1	100%	0	0	99	99	99
Generator	BS C4/77	88	1	100%	0	0	88	88	88
Breaker, excavator mounted (hydraulic)	BS C9/12	113	1	100%	0	0	-	113	-
Excavator	BS C4/65	99	2	100%	0	0	-	102	-
Dumper (7 t)	BS C4/3	104	1	100%	0	0	104	104	-
Bar Bender and Cutter	CNP 021	90	1	100%	0	0	-	-	90
Concrete Pump	BS C3/25	106	2	100%	0	0	-	-	109
Saw, circular, wood	CNP 201	108	1	100%	0	0	-	-	108
Derrick Barge	CNP 061	104	1	100%	0	0	-	-	104
Poker, vibratory, handheld	BS C4/34	97	2	100%	0	0	-	-	100
Submersible Pump	CNP 283	85	2	100%	0	0	-	88	-
						Total	118.0	114.0	113.0

Max Noise Level
118.0

Remarks:
AEIAR-052/2002: Noise level of PME extracted from the Approved EIA Report in the Register: AEIAR-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 20, 60 and 80 percentage on-time has been given accordingly.

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

Project Specific PME Item	ence	dB(A)	Items	On-time %	On-time Cor.	Barrier Cor.	Total SWL, dB(A)
Stage 1 - Rehabilitation of Existing Sewers							
Generator	BS C4/77	88	1	100%	0	-10	78
Submersible Pump	CNP 283	85	1	100%	0	-10	75
Winch (electric)	CNP 262	95	1	100%	0	-10	85
Grinder, hand held (electric)	CNP 065	98	1	100%	0	-10	88
Air Compressor	BS D7/24	95	1	100%	0	-10	85
					Total		91.0

Max Noise Level
91.0

Remarks:

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

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

Max Noise Level
96.0

Remarks: