

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)
<b>Stage 1 - Breaking up of road surface</b>							
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
<b>Stage 2 - Excavation of soil material</b>							
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
<b>Stage 3 - Steel fixing &amp; concreting of manholes</b>							
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
<b>Stage 4 - Laying of bedding material</b>							
Generator	CNP 103	95	1	100%	0	95	-
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
Total						113.0	0.0
<b>Stage 5 - Backfilling and soil compaction</b>							
Vibratory compactor	CNP 055	105	1	50%	-3	102	-
Total						102.0	0.0
<b>Stage 6 - Reinstatement of road surface</b>							
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

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)
<b>Stage 1 - Excavation of Pits</b>									
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	-	-	-
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
<b>Stage 2 - Pipes Laid by Segmental Excavation</b>									
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
<b>Stage 3 - Steel fixing and concreting of manholes</b>									
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
<b>Stage 4 - Reinstatement of road surface with Bricks</b>									
No PME Involved									
Total						0.0	0.0	0.0	0.0

Max Noise Level  
122.0

Remarks:

\*EPD - Details extracted from EPD website: [http://www.epd.gov.hk/epd/english/application\\_for\\_licenses/guidancefiles/OtherSWL\\_e.pdf](http://www.epd.gov.hk/epd/english/application_for_licenses/guidancefiles/OtherSWL_e.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 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)
<b>Stage 1 - Breaking up of road surface</b>							
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
<b>Stage 2 - Excavation of soil material</b>							
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
<b>Stage 3 - Removal of existing sewers and laying of new sewers</b>							
Backhoe (mini)	CNP 082	94	1	100%	0	94	-
Total						94.0	0.0
<b>Stage 4 - Steel fixing and concreting of manholes</b>							
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
Total						83.0	110.0
<b>Stage 5 - Laying of bedding material</b>							
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
Generator	CNP 103	95	1	100%	0	95	-
Total						113.0	0.0
<b>Stage 6 - Backfilling and soil compaction</b>							
Vibratory compactor	CNP 050	105	1	50%	-3	102	-
Total						102.0	0.0
<b>Stage 7 - Reinstatement of road surface</b>							
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  
113.0

Work Type 6 - Rehabilitation of Existing Sewers

Project Specific PME Item	ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)
<b>Stage 1 - Rehabilitation of Existing Sewers</b>						
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
Total						104.0

Max Noise Level  
104.0

Remarks:

\*EPD - Details extracted from EPD website: [http://www.epd.gov.hk/epd/english/application\\_for\\_licenses/guidancefiles/OtherSWL\\_e.pdf](http://www.epd.gov.hk/epd/english/application_for_licenses/guidancefiles/OtherSWL_e.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	ce	dB(A)	Items	On-time %	On-time Cor.	Total SWL_dB(A)	Total SWL_dB(A)	Total SWL_dB(A)
<b>Stage 1 &amp; 2 - Demolish the abandoned filter beds &amp; modification of pipework</b>								
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
<b>Stage 3 - Construction and upgrading of treatment facilities</b>								
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 052/20 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
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	1	100%	0	-	85	-
Total						119.0	123.0	119.0
<b>Stage 4 - Demolish existing air blower room and construction of the new pump house</b>								
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	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
Total						123.0	119.0	0.0
<b>Stage 5 - Demolish of the primary sediment tanks and sludge digester, laying of new pipeworks</b>								
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	60%	-2	104	-	-
Compactor, vibratory	CNP 050	105	1	80%	-1	-	104	-
Total						122.0	105.0	0.0
<b>Stage 6 - Construction of the new storm tanks and workshop, demolish existing preliminary treatment works</b>								
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 052/20 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	100%	0	106	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
Submersible Pump	CNP 283	85	1	100%	0	-	85	-
Total						119.0	123.0	119.0

Max Noise Level  
123.0

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)
<b>Stage 1 - Partial removal of existing structure</b>							
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
<b>Stage 2 - Partial reconstruction of structures</b>							
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
<b>Stage 3 - Replacement of E&amp;M equipments</b>							
Crane, mobile mounted	CNP 048	112	1	100%	0	112	-
Generator	CNP 103	95	1	100%	0	95	-
Winch (electric)	CNP 282	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:  
 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 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)
<b>Stage 1 - Breaking up of road surface</b>							
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
<b>Stage 2 - Excavation of soil material</b>							
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
<b>Stage 3 - Steel fixing &amp; concreting of manholes</b>							
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
<b>Stage 4 - Laying of bedding material</b>							
Generator	CNP 103	95	1	100%	0	95	-
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
Total						113.0	0.0
<b>Stage 5 - Backfilling and soil compaction</b>							
Vibratory compactor	CNP 055	105	1	50%	-3	102	-
Total						102.0	0.0
<b>Stage 6 - Reinstatement of road surface</b>							
Poker, vibratory, hand-held	CNP 170	113	1	100%	0	113	-
Generator	CNP 103	95	1	100%	0	95	-
Total						113.0	0.0

<b>Max Noise Level</b>
113.0

Remarks:

\*EPD - Details extracted from EPD website: [http://www.epd.gov.hk/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](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)				
<b>Stage 1 - Excavation of Pits</b>													
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				
<b>Stage 2 - Pipes Laid by Segmental Excavation</b>													
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				
<b>Stage 3 - Steel fixing and concreting of manholes</b>													
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	-	-				
Total						83.0	110.0	0.0	0.0				
<b>Stage 4 - Reinstatement of road surface with Bricks</b>													
No PME Involved						Total				0.0	0.0	0.0	0.0

<b>Max Noise Level</b>
122.0

Remarks:

\*EPD - Details extracted from EPD website: [http://www.epd.gov.hk/epd/english/application\\_for\\_licenses/guidance/OtherSWL\\_e.pdf](http://www.epd.gov.hk/epd/english/application_for_licenses/guidance/OtherSWL_e.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	Code	dB(A)	Items	On-time %	On-time Cor.	Total SWL, dB(A)	Total SWL, dB(A)
<b>Stage 1 - Breaking up of road surface</b>							
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
<b>Stage 2 - Excavation of soil material</b>							
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
<b>Stage 3 - Removal of existing sewers and laying of new sewers</b>							
Backhoe (mini)	CNP 082	94	1	100%	0	94	-
Total						94.0	0.0
<b>Stage 4 - Steel fixing and concreting of manholes</b>							
Bar Bender and cutter (electric)	CNP 021	90	1	20%	-7	83	-
Generator	CNP 103	95	1	100%	0	-	95
Poker vibrator hand-held	CNP 170	113	1	50%	-3	-	110
Total						83.0	110.0
<b>Stage 5 - Laying of bedding material</b>							
Poker vibrator hand-held	CNP 170	113	1	100%	0	113	-
Generator	CNP 103	95	1	100%	0	95	-
Total						113.0	0.0
<b>Stage 6 - Backfilling and soil compaction</b>							
Vibrator compactor	CNP 050	105	1	50%	-3	102	-
Total						102.0	0.0
<b>Stage 7 - Reinstatement of road surface</b>							
Poker vibrator hand-held	CNP 170	113	1	50%	-3	110	-
Generator	CNP 103	95	1	100%	0	95	-
Total						110.0	0.0

<b>Max Noise Level</b>
113.0

Remarks:

\*EPD - Details extracted from EPD website: [http://www.epd.gov.hk/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](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, 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)
<b>Stage 1 - Partial removal of existing structure</b>							
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
<b>Stage 2 - Partial reconstruction of structures</b>							
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
<b>Stage 3 - Replacement of E&amp;M equipments</b>							
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

<b>Max Noise Level</b>
122.0

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)
<b>Stage 1 &amp; 2 - Demolish the abandoned filter beds &amp; modification of pipework</b>								
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
<b>Stage 3 - Construction and upgrading of treatment facilities</b>								
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
<b>Stage 4 - Demolish existing air blower room and construction of the new pump house</b>								
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
<b>Stage 5 - Demolish of the primary sediment tanks and sludge digester, laying of new pipeworks</b>								
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
<b>Stage 6 - Construction of the new storm tanks and workshop, demolish existing preliminary treatment works</b>								
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
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
Submersible Pump	CNP 283	85	2	100%	0	-	88	-
Total						119.0	123.0	119.0

<b>Max Noise Level</b>
123.0

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 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)
<b>Stage 1 - Rehabilitation of Existing Sewers</b>						
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
					Total	104.0

<b>Max Noise Level</b>
104.0



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)
<b>Stage 1 - Operation of concrete mixer</b>							
Concrete mixer (petrol)	CNP 046	96	1	100%	0	96	-
Total						96.0	0.0

<b>Max Noise Level</b>
96.0

Remarks: