

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

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface									
Drill, hand-held (battery)	CNP 071	1	89	30%	-5	(a) (b)	-10	73.8	-
Total								73.8	0.0
Stage 2 - Excavation of soil material									
Excavator, tracked	QPME EPD-02101	1	90	100%	0	(a) (b)	-10	80.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0
Submersible Pump	CNP 283	1	85	100%	0	(b)	-15	-	70.0
Total								80.0	79.5
Stage 3 - Steel fixing & concreting of manholes									
Bar bender and cutter (electric)	CNP 021	1	90	40%	-4	(b)	-15	-	71.0
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	75.0	75.0
Poker, vibratory, hand-held	BS C4/34	1	97	40%	-4	(a) (b)	-15	78.0	-
Total								79.8	76.5
Stage 4 - Laying of bedding material									
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	-	75.0
Poker, vibratory, hand-held - 2	BS C4/34	1	97	40%	-4	(a) (b)	-15	-	78.0
Total								0.0	79.8
Stage 5 - Backfilling and soil compaction									
Road Roller	BS D8/25	1	96	25%	-6	(a) (b)	-10	80.0	-
Total								80.0	0.0
Stage 6 - Reinstatement of road surface									
Poker, vibratory, hand-held - 2	BS C4/34	1	97	40%	-4	(a) (b)	-15	78.0	-
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	75.0	-
Total								79.8	0.0

Max Noise Level
80.0

Remarks:

(a) Use of Quiet PME; (b) Use of Temporary Barrier

*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 - Mitigated Scenario
 Work Type 2 - Construction of Sewer (Trenchless Method)

Mitigated ▼

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier 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	1	114	100%	0	(b)	-10	104.0	-	-	-
Hoist (electric)	CNP 122	1	95	100%	0	(b)	-10	85.0	-	-	-
Breaker, excavator mounted	BS C9/12	1	113	100%	0	(a) (b)	-5	-	108.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a) (b)	-5	-	-	94.0	-
Dumper	BS D3/98	1	101	100%	0	(b)	-5	-	-	96.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	79.0	-
Submersible Pump	CNP 283	2	85	100%	0	(b)	-10	-	-	78.0	-
Grout Mixer	CNP 105	1	90	100%	0	(b)	-10	-	-	-	80.0
Grout Pump	CNP 106	1	105	100%	0	(b)	-10	-	-	-	95.0
Total								104.1	108.0	98.2	95.1
Stage 2 - Pipe Laid by Trenchless Method											
Tunnel Boring Machine	CNP 183	1	116	100%	0	(b)	-10	106.0	-	-	-
Bentonite Filtering Plant	CNP 162	1	105	100%	0	(b)	-10	95.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-	-
Dumper - 2	BS D3/98	1	101	70%	-2	(b)	-5	94.5	-	-	-
Hoist (electric) - 2	CNP 122	1	95	70%	-2	-	0	93.5	-	-	-
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	75.0	-	-	-
Ventilation Fan	CNP 241	1	108	100%	0	(b)	-10	98.0	-	-	-
Grout Mixer	CNP 105	1	90	100%	0	(b)	-10	-	80.0	-	-
Grout Pump	CNP 106	1	105	100%	0	(b)	-10	-	95.0	-	-
Total								107.4	95.1	0.0	0.0
Stage 3 - Steel fixing and concreting of manholes											
Bar bender and cutter (electric)	CNP 021	1	90	40%	-4	(b)	-15	71.0	-	-	-
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	-	75.0	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	40%	-4	(a) (b)	-15	-	78.0	-	-
Total								71.0	79.8	0.0	0.0
Stage 4 - Reinstatement of road surface											
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	75.0	-	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	40%	-4	(a) (b)	-15	78.0	-	-	-
Total								79.8	0.0	0.0	0.0

Max Noise Level
108.0

Remarks:

(a) Use of Quiet PME; (b) Use of Temporary Barrier

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 50 and 70 percentage on-time has been given accordingly.

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

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface									
Drill, hand-held (battery)	CNP 071	1	89	30%	-5	(a) (b)	-10	73.8	-
Total								73.8	0.0
Stage 2 - Excavation of soil material									
Excavator, tracked	QPME EPD-02101	1	90	100%	0	(a) (b)	-10	80.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0
Submersible Pump	CNP 283	1	85	100%	0	(b)	-15	-	70.0
Total								80.0	79.5
Stage 3 - Removal of existing sewers and laying of new sewers									
Excavator, tracked	QPME EPD-02101	1	90	100%	0	(a) (b)	-10	80.0	-
Total								80.0	0.0
Stage 4 - Steel fixing and concreting of manholes									
Bar bender and cutter (electric)	CNP 021	1	90	40%	-4	(b)	-15	71.0	-
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	-	75.0
Poker vibrator hand-held	BS C4/34	1	97	40%	-4	(a) (b)	-15	-	78.0
Total								71.0	79.8
Stage 5 - Laying of bedding material									
Poker vibrator hand-held - 2	BS C4/34	1	97	40%	-4	(a) (b)	-15	78.0	-
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	75.0	-
Total								79.8	0.0
Stage 6 - Backfilling and soil compaction									
Road Roller	BS D8/25	1	96	25%	-6	(a) (b)	-10	80.0	-
Total								80.0	0.0
Stage 7 - Reinstatement of road surface									
Poker vibrator hand-held - 2	BS C4/34	1	97	40%	-4	(a) (b)	-15	78.0	-
Generator	BS C4/78	1	94	40%	-4	(a) (b)	-15	75.0	-
Total								79.8	0.0

Max Noise Level
80.0

Remarks:

(a) Use of Quiet PME; (b) Use of Temporary Barrier

*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, 50 and 70 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
 Work Type 4 - Construction of Tai O STW & Seawall Construction

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Form part of permanent seawall - by forming rock / Gabion wall											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
Total								111.0	0.0	0.0	0.0
Stage 2 - Fill the reclamation to 3mPD											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	-	-	-
Total								111.1	0.0	0.0	0.0
Stage 3 - Core boreholes											
Drill Rig	BS D10/2	1	112	100%	0	(a)	0	112.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Total								112.5	0.0	0.0	0.0
Stage 4 - 1 - 1: Excavation and Construction of substructures in new reclamation areas											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	110.0	110.0	110.0
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	95.0	95.0	95.0
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	97.0	97.0	97.0
Air Compressor	CNP 002	2	102	100%	0		0	105.0	105.0	105.0	105.0
Stage 4 - 1 - 2: Construct bored piles for above-ground-structures: 350m³ boring in rock											
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0		0	-	115.0	-	115.0
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0		0	-	115.0	-	115.0
Piling, Crawler crane/chisel/oscillator/RCD	CNP 164	1	115	100%	0		0	-	115.0	-	115.0
Air Compressor	CNP 002	1	102	100%	0		0	-	102.0	-	102.0
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	-	90.0	-	90.0
Stage 4 - 1 - 3: Construct sheet pile walls for excavation of substructure: 625 m³ boring in rock											
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a)	0	94.0	-	94.0	-
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0		0	115.0	-	115.0	-
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0		0	115.0	-	115.0	-
Piling, Crawler crane/chisel/oscillator/RCD	CNP 164	1	115	100%	0		0	115.0	-	115.0	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	102.0	-
Stage 4 - 1 - 4: Excavation for substructures: 1000m³ excavation in rock											
Breaker, excavator mounted	BS C9/12	1	113	100%	0	(a)	0	113.0	113.0	113.0	-
Excavator	BS C4/65	1	99	100%	0	(a)	0	99.0	99.0	99.0	-
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	88.0	88.0	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	98.0	98.0	-
Stage 4 - 1 - 5: Construction of Substructures											
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	88.0	-	88.0
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	90.0	-	90.0
Concrete Pump	CNP 047	2	109	100%	0		0	112.0	112.0	-	112.0
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	108.0	-	108.0
Poker, vibratory, hand-held	BS C4/34	3	97	100%	0	(a)	0	101.8	101.8	-	101.8
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	98.0	-	98.0
Stage 4 - 2: Construct Temporary Outfall Chamber through existing seawall and on existing outfall pipes											
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Total								122.1	121.9	121.2	121.3
Stage 5 - 1: Install Temporary Treatment Installation											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Stage 5 - 2: Construct Temporary Sewage Inlet Pipe from existing Inlet Chamber to Temporary Treatment											
Submersible Pump	CNP 283	1	85	100%	0		0	85.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Stage 5 - 3: Construct Temporary Treated Effluent Outlet Pipe from Temporary Treatment Installation to the Temporary Outfall Chamber											
Submersible Pump	CNP 283	1	85	100%	0		0	85.0	-	-	-
Total								112.8	0.0	0.0	0.0
Stage 6 - 1 - 1: Demolish and remove the Imhoff Tank, pipework, chambers and workshop											
Breaker, excavator mounted	BS C9/12	1	113	100%	0	(a)	0	113.0	113.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a)	0	99.0	99.0	-	-
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	97.0	-	-
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	88.0	-	-
Stage 6 - 1 - 2: Construct sheet pile walls for excavation of substructure: 850m³ boring in rock											
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a)	0	94.0	-	-	-
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0		0	115.0	-	-	-
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0		0	115.0	-	-	-
Piling, Crawler crane/chisel/oscillator/RCD	CNP 164	1	115	100%	0		0	115.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Stage 6 - 1 - 3: Excavation for substructures: 1000m³ excavation in reinforced concrete (by saw-cut) and rock											
Saw/grinder, concrete (petrol)	CNP 203	2	115	100%	0		0	-	118.0	-	-
Total								120.7	119.3	0.0	0.0
Stage 7 - 1: Construct the new Preliminary Treatment											
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	-	-	-
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Stage 7 - 2: Construct the superstructures of MBR, Pump House and Header Tank, Sludge Thickening Tanks, Sludge Pump House, Air Blower, Sludge Digestors, Sludge Holding Tanks, Dangerous Goods Store, Fire Pump Room and Workshop											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	110.0	-	-
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	95.0	-	-
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	97.0	-	-
Air Compressor	CNP 002	2	102	100%	0		0	105.0	105.0	-	-
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	90.0	-	-
Concrete Pump	CNP 047	2	109	100%	0		0	112.0	112.0	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	108.0	-	-
Poker, vibratory, hand-held	BS C4/34	2	97	100%	0	(a)	0	100.0	100.0	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	98.0	-	-
Total								116.5	115.8	0.0	0.0
Stage 8 - 1: Installation of major E&M equipments											
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	-	-	-
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Winch (electric)	CNP 262	1	95	100%	0		0	95.0	-	-	-
Stage 8 - 3: Construct pipelines within the STW site and install a temporary pipeline											
Poker, vibratory, hand-held	BS C4/34	1	97	100%	0	(a)	0	97.0	-	-	-
Total								110.1	0.0	0.0	0.0
Stage 9 - Remove Temporary Treatment Units and construct the new Sludge Dewatering House											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	-	-	-
Concrete Pump	CNP 047	2	109	100%	0		0	112.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Poker, vibratory, hand-held	BS C4/34	2	97	100%	0	(a)	0	100.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Total								115.5	0.0	0.0	0.0
Stage 10 - Installation of ancillary equipments and remove temporary platform											
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Winch (electric)	CNP 262	1	95	100%	0		0	95.0	-	-	-
Total								109.7	0.0	0.0	0.0
Construction of the remaining permanent seawall											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
Total								111.0	0.0	0.0	0.0
Laying of submarine outfall											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Dredger, grab	CNP 063	1	112	100%	0		0	112.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
Total								114.5	0.0	0.0	0.0

Max Noise Level
122.1

Remarks:
 (a) Use of Quiet PME; (b) Use of Temporary Barrier
 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 - Mitigated Scenario

Work Type 5 - Construction of Hang Mei Sewerage Pumping Station

Mitigated ▼

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Site Clearance										
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
Total								89.0	0.0	0.0
Stage 2 - Piling										
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a) (b)	-10	84.0	-	-
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	92.5	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
Total								93.2	0.0	0.0
Stage 3 - Excavation										
Breaker, hand-held, mass≥20kg and ≤35kg	CNP 025	1	111	100%	0	(b)	-10	101.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a) (b)	-5	-	94.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0	79.0
Dumper	BS D3/98	1	101	100%	0	(b)	-5	-	-	96.0
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	-	92.5	92.5
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	-	75.0	75.0
Welding Machine	*AEIAR 052/2002	1	78	60%	-2	(b)	-10	-	65.8	-
Total								101.0	96.4	97.7
Stage 4 - Steel fixing and concreting for structure										
Bar bender and cutter (electric)	CNP 021	1	90	30%	-5	(b)	-15	69.8	-	-
Concrete Pump	CNP 047	1	109	100%	0	(b)	-10	-	99.0	-
Saw, circular, wood	CNP 201	1	108	100%	0	(b)	-10	98.0	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	100%	0	(a) (b)	-15	-	82.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	79.0	-
Total								98.1	99.1	0.0
Stage 5 - Backfilling and Soil Compaction										
Vibratory Compactor	BS D8/25	1	96	100%	0	(a) (b)	-10	86.0	-	-
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
Total								90.8	0.0	0.0
Stage 6 - Installation of E&M equipments										
Crane, mobile mounted	BS C4/50	1	99	100%	0	(a) (b)	-5	94.0	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
Winch (electric)	CNP 262	1	95	100%	0	(b)	-10	85.0	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0	(b)	-10	88.0	-	-
Total								95.5	0.0	0.0

Max Noise Level
101.0

Remarks:

(a) Use of Quiet PME; (b) Use of Temporary Barrier

*EPD - Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

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 30 and 60 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario

Work Type 6 - Construction of Fan Kwai Tong Sewerage Pumping Station

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Site Clearance										
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
Total								89.0	0.0	0.0
Stage 2 - Piling										
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a) (b)	-10	84.0	-	-
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	92.5	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
Total								93.2	0.0	0.0
Stage 3 - Excavation										
Breaker, hand-held, mass≥20kg and s35kg	CNP 025	1	111	100%	0	(b)	-10	101.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a) (b)	-5	-	94.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0	79.0
Dumper	BS D3/98	1	101	100%	0	(b)	-5	-	-	96.0
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	-	92.5	92.5
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	-	75.0	75.0
Welding Machine	*AEIAR 052/2002	1	78	60%	-2	(b)	-10	-	65.8	-
Total								101.0	96.4	97.7
Stage 4 - Steel fixing and concreting for structure										
Bar bender and cutter (electric)	CNP 021	1	90	30%	-5	(b)	-15	69.8	-	-
Concrete Pump	CNP 047	1	109	100%	0	(b)	-10	-	99.0	-
Saw, circular, wood	CNP 201	1	108	100%	0	(b)	-10	98.0	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	100%	0	(a) (b)	-15	-	82.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	79.0	-
Total								98.1	99.1	0.0
Stage 5 - Backfilling and Soil Compaction										
Vibratory Compactor	BS D8/25	1	96	100%	0	(a) (b)	-10	86.0	-	-
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
Total								90.8	0.0	0.0
Stage 6 - Installation of E&M equipments										
Crane, mobile mounted	BS C4/50	1	99	100%	0	(a) (b)	-5	94.0	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
Winch (electric)	CNP 262	1	95	100%	0	(b)	-10	85.0	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0	(b)	-10	88.0	-	-
Total								95.5	0.0	0.0

Max Noise Level
101.0

Remarks:

(a) Use of Quiet PME; (b) Use of Temporary Barrier

*EPD - Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

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 30 and 60 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
 Work Type 7 - Temporary Workings Area

Mitigated ▼

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Site Clearance									
Backhoe (mini)	CNP 082	1	94	100%	0	-	0	94.0	-
Total								94.0	0.0
Stage 2 - Operation of concrete mixer									
Concrete mixer (petrol)	CNP 046	1	96	100%	0	-	0	96.0	-
Total								96.0	0.0

Max Noise Level
96.0