

**Appendix 7.4 Powered Mechanical Equipment (PME) for Demolition/Construction Tasks During Normal Daytime Working Hours
(Without Mitigation Measures)**

ADVANCE WORK PRIOR TO PHASE 1 WORK

Tree Transplanting

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Excavator / Backhoe	CNP 081	1	112	80%	111	
Lorry, with Crane	CNP 144	1	112	80%	111	
Overall Noise Level, dB(A)					114	

PHASE 1 DEVELOPMENT

Site Formation Works

- Remove obstruction, expose and divert existing utilities

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	100%	104	
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	80%	110	
Excavator	CNP 081	1	112	65%	110	
Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100%	100	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Overall Noise Level, dB(A)					116	

- Re-divert utilities and Road surface reinstatement

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Concrete lorry mixer	CNP 044	1	109	80%	108	
Excavator/loader, wheeled/tracked	CNP 081	1	112	65%	110	
Poker, vibratory, hand-held	CNP 170	1	113	50%	110	
Road roller	CNP 185	1	108	50%	105	
Overall Noise Level, dB(A)					115	

- Slope and Wall Modification/Remedial Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Soil Nailing Drilling Machine	CNP 183	2	116	65%	117	
Rock Dowel Drilling Machine	CNP 183	2	116	65%	117	
Compactor, vibratory	CNP 050	3	105	50%	107	
Concrete lorry mixer	CNP 044	2	109	80%	111	
Concrete pump, stationary/lorry mounted	CNP 047	1	109	80%	108	
Bar bender & Cutter	CNP 021	1	90	50%	87	
Saw, circular, wood	CNP 201	1	108	50%	105	
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	100%	104	
Grout pump	CNP 106	1	105	65%	103	
Overall Noise Level, dB(A)					121	

- Installation of temporary walls and decking

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Excavator/loader, wheeled/tracked	CNP 081	1	112	65%	110	
Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100%	100	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Vertical Pipe Pile Rig	CNP 166	2	100	80%	102	
Crane, mobile/barge mounted (diesel)	CNP 048	2	112	30%	110	
Grout pump	CNP 106	2	105	65%	106	
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	100%	104	
Overall Noise Level, dB(A)					117	

- Excavations and installation of lateral support

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Air compressor, air flow > 30m ³ /min	CNP 003	3	104	100%	109	
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	80%	110	
Dump truck, gross vehicle weight > 38 tonne	CNP 067	3	117	65%	120	
Excavator/loader, wheeled/tracked	CNP 081	1	112	65%	110	
Generator, silenced, 75dB(A) at 7m	CNP 102	2	100	100%	103	
Bulldozer	CNP 030	3	115	65%	118	
Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	65%	110	
Ventilation fan	CNP 241	2	108	100%	111	
Water pump (petrol)	CNP 263	2	102	100%	105	
Rock drill, crawler mounted (hydraulic)	CNP 182	1	123	80%	122	
Overall Noise Level, dB(A)					126	

Substructure Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Compactor, vibratory	CNP 050	2	105	50%	105	
Excavator/loader, wheeled/tracked	CNP 081	2	112	65%	113	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Vertical Pre-boring H Pile Rig	CNP 166	2	100	80%	102	
Grout pump	CNP 106	2	105	65%	106	
Air compressor, air flow > 30m ³ /min	CNP 003	2	104	100%	107	
Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100%	100	
Ventilation fan	CNP 241	1	108	100%	108	
Mobile crane	CNP 048	1	112	30%	107	
Crane Lorry	CNP 048	1	112	65%	110	
Circular saw (wood)	CNP 201	2	108	50%	108	
Concrete pump	CNP 047	1	109	80%	108	
Concrete lorry mixer	CNP 044	2	109	80%	111	
Hand held vibratory	CNP 173	2	102	50%	102	
Bar bender & cutter	CNP 021	2	90	50%	90	
Dump truck	CNP 067	1	117	30%	112	
Overall Noise Level, dB(A)					121	

Superstructure Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Crane Lorry	CNP 048	1	112	65%	110	
Tower crane	CNP 049	1	95	30%	90	
Concrete pump	CNP 047	1	109	80%	108	
Concrete lorry mixer	CNP 044	2	109	80%	111	
Hand held vibratory	CNP 173	2	102	50%	102	
Air Compressor	CNP 002	2	102	100%	105	
Generator	CNP 101	2	108	100%	111	
Bar bender & cutter	CNP 021	2	90	50%	90	
Dump truck	CNP 067	1	117	30%	112	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Circular saw (wood)	CNP 201	2	108	50%	108	
Overall Noise Level, dB(A)					119	

Landscape Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Excavator / Backhoe	CNP 081	1	112	80%	111	
Lorry, with Crane	CNP 144	1	112	80%	111	
Overall Noise Level, dB(A)					114	

Fitting-out Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Mobile crane	CNP 048	1	112	80%	111	
Crane lorry	CNP 048	1	112	80%	111	
Dump truck	CNP 067	1	117	30%	112	
Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	65%	110	
Overall Noise Level, dB(A)					117	

Demolition of Existing Chinese Service Hall

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Crane Lorry	CNP 048	1	112	65%	110	
Air Compressor	CNP 002	1	102	100%	102	
Generator	CNP 101	1	108	100%	108	
Dump truck	CNP 067	1	117	65%	115	
Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	65%	110	
Hand held pneumatic breaker (20 - 35 kg)	CNP 025	2	111	80%	113	
Ventilation fan	CNP 241	1	108	100%	108	
Bulldozer	CNP 030	1	115	80%	114	
Concrete crusher, excaavator mounted	CNP 055	1	103	80%	102	
Overall Noise Level, dB(A)					121	

PHASE 2 DEVELOPMENT

Remove Obstruction, Expose and Divert Existing Utilities

PME	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	100%	104	
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	2	108	80%	110	
Excavator	CNP 081	1	112	65%	110	
Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100%	100	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Overall Noise Level, dB(A)					116	

Installation of Temporary Walls and Decking

PME	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
Excavator/loader, wheeled/tracked	CNP 081	1	112	65%	110	
Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100%	100	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Vertical Pipe Pile Rig	CNP 166	2	100	80%	102	
Crane, mobile/berge mounted (diesel)	CNP 048	2	112	30%	110	
Grout pump	CNP 106	2	105	65%	106	
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	100%	104	
Overall Noise Level, dB(A)					117	

Demolition of Existing Cremators and Services Halls

PME	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
Crane Lorry	CNP 048	1	112	65%	110	
Air Compressor	CNP 002	1	102	100%	102	
Generator	CNP 101	1	108	100%	108	
Dump truck	CNP 067	3	117	65%	120	
Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	65%	110	
Hand held pneumatic breaker (20 - 35 kg)	CNP 025	3	111	80%	115	
Ventilation fan	CNP 241	3	108	100%	113	
Bulldozer	CNP 030	1	115	80%	114	
Concrete crusher, excaavator mounted	CNP 055	2	103	80%	105	
Overall Noise Level, dB(A)					123	

Excavations and Installation of Lateral Support Works

PME	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	3	108	80%	112	
Dump truck, gross vehicle weight > 38 tonne	CNP 067	2	117	65%	118	
Excavator/loader, wheeled/tracked	CNP 081	3	112	65%	115	
Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100%	100	
Bulldozer	CNP 030	2	115	65%	116	
Lorry, gross vehicle weight > 38 tonne	CNP 141	3	112	65%	115	
Ventilation fan	CNP 241	1	108	100%	108	
Water pump (petrol)	CNP 263	2	102	100%	105	
Rock drill, crawler mounted (hydraulic)	CNP 182	3	123	80%	127	
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	100%	104	
Overall Noise Level, dB(A)					128	

Slope and Wall Modification /Remedial Works (Part 1)

PME	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
Soil Nailing Drilling Machine	CNP 183	1	116	65%	114	
Rock Dowel Drilling Machine	CNP 183	2	116	65%	117	
Compactor, vibratory	CNP 050	2	105	50%	105	
Concrete lorry mixer	CNP 044	1	109	80%	108	
Concrete pump, stationary/lorry mounted	CNP 047	1	109	80%	108	
Bar bender & Cutter	CNP 021	1	90	50%	87	
Saw, circular, wood	CNP 201	1	108	50%	105	
Grout pump	CNP 106	2	105	65%	106	
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	65%	102	
Overall Noise Level, dB(A)					120	

Slope and Wall Modification /Remedial Works (Part 2)

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Soil Nailing Drilling Machine	CNP 183	1	116	65%	114	
Rock Dowel Drilling Machine	CNP 183	2	116	65%	117	
Compactor, vibratory	CNP 050	2	105	50%	105	
Concrete lorry mixer	CNP 044	1	109	80%	108	
Concrete pump, stationary/lorry mounted	CNP 047	1	109	80%	108	
Bar bender & Cutter	CNP 021	1	90	50%	87	
Saw, circular, wood	CNP 201	1	108	50%	105	
Grout pump	CNP 106	2	105	65%	106	
Air compressor, air flow > 30m ³ /min	CNP 003	1	104	65%	102	
Overall Noise Level, dB(A)					120	

Substructure Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Compactor, vibratory	CNP 050	2	105	50%	105	
Excavator/loader, wheeled/tracked	CNP 081	2	112	65%	113	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Vertical Pre-boring H Pile Rig	CNP 166	2	100	80%	102	
Grout pump	CNP 106	2	105	65%	106	
Air compressor, air flow > 30m ³ /min	CNP 003	2	104	100%	107	
Generator, silenced, 75dB(A) at 7m	CNP 102	2	100	100%	103	
Ventilation fan	CNP 241	1	108	100%	108	
Mobile crane	CNP 048	1	112	30%	107	
Crane Lorry	CNP 048	1	112	65%	110	
Circular saw (wood)	CNP 201	2	108	50%	108	
Concrete pump	CNP 047	1	109	80%	108	
Concrete lorry mixer	CNP 044	2	109	80%	111	
Hand held vibratory	CNP 173	2	102	50%	102	
Dump truck	CNP 067	1	117	30%	112	
Bar bender & cutter.	CNP 021	2	90	50%	90	
Overall Noise Level, dB(A)					121	

Superstructure Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Crane Lorry	CNP 048	1	112	65%	110	
Tower crane	CNP 049	1	95	30%	90	
Concrete pump	CNP 047	1	109	80%	108	
Concrete lorry mixer	CNP 044	2	109	80%	111	
Hand held vibratory	CNP 173	2	102	50%	102	
Air Compressor	CNP 002	2	102	100%	105	
Generator	CNP 101	2	108	100%	111	
Bar bender & cutter	CNP 021	2	90	50%	90	
Dump truck	CNP 067	1	117	30%	112	
Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	65%	113	
Saw, circular, wood	CNP 201	2	108	50%	108	
Overall Noise Level, dB(A)					119	

Construction of the New Transfer Room

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Crane Lorry	CNP 048	1	112	65%	110	
Air Compressor	CNP 002	1	102	100%	102	
Generator	CNP 101	1	108	100%	108	
Dump truck	CNP 067	1	117	65%	115	
Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	65%	110	
Hand held pneumatic breaker (20 - 35 kg)	CNP 025	2	111	80%	113	
Ventilation Fan	CNP 241	1	108	100%	108	
Bulldozer	CNP 030	1	115	80%	114	
Concrete crusher, excavator mounted	CNP 055	1	103	80%	102	
Overall Noise Level, dB(A)					121	

Landscape Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Excavator / Backhoe	CNP 081	1	112	80%	111	
Lorry, with Crane	CNP 144	1	112	80%	111	
Overall Noise Level, dB(A)					114	

Fitting-out Works

	TM Ref. /other Ref.	No. of Items	SWL/ Item dB(A)	On-time %	Overall SWL, dB(A)	Remarks
PME						
Mobile crane	CNP 048	1	112	80%	111	
Crane lorry	CNP 048	1	112	80%	111	
Dump truck	CNP 067	1	117	30%	112	
Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	65%	110	
Overall Noise Level, dB(A)					117	