

Appendix 3.3

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Normal Daytime Working Hours (Unmitigated Scenario)

(1) Site Clearance, Fencing & Hoarding

Powered Mechanical Equipment (PME)	TM Ref./other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	2	112	75%	114
Saw, circular, wood	CNP 201	1	108	100%	108
Crane	CNP 048	1	112	75%	111
Truck	CNP 067	1	117	75%	116
Concrete Truck	CNP 044	1	109	100%	109
Poker Vibrator	CNP 170	1	113	100%	113
Total					120

(2) Construction of Site Office

Powered Mechanical Equipment (PME)	TM Ref./other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	100%	112
Crane	CNP 048	1	112	75%	111
Truck	CNP 067	1	117	75%	116
Concrete Truck	CNP 044	1	109	100%	109
Poker Vibrator	CNP 170	1	113	100%	113
Total					120

(3) Flyover

Construction of Pile Foundation

Powered Mechanical Equipment (PME)	TM Ref./other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Piling Rig	CNP 166	1	100	100.0%	100
Excavator	CNP 081	1	112	75.0%	111
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100%	113
Truck	CNP 067	1	117	75.0%	116
Crane	CNP 048	1	112	75.0%	111
Total					120
Max					116

Construction of Pier

Powered Mechanical Equipment (PME)	TM Ref./other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	75%	111
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100.0%	113
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	75%	111
Total					120
Max					116

Construction of Superstructures

Powered Mechanical Equipment (PME)	TM Ref./other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100.0%	113
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	75%	111
Total					119
Max					116

(4) Footbridges

Construction of Temporary Footbridges

Powered Mechanical Equipm (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	75%	111
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100.0%	113
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	75%	111
				Total	120
				Max	116

Demolition of Existing Footbridges

Powered Mechanical Equipm (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	100%	112
Crane	CNP 048	1	112	100%	112
Truck	CNP 067	1	117	75%	116
				Total	118
				Max	116

Construction of Pile Foundation

Powered Mechanical Equipm (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Piling Rig	CNP 166	1	100	100.0%	100
Excavator	CNP 081	1	112	75%	111
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100.0%	113
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	75%	111
				Total	120
				Max	116

Construction of Pier

Powered Mechanical Equipm (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100.0%	113
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	75%	111
				Total	119
				Max	116

Construction of Superstructures

Powered Mechanical Equipm (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100.0%	113
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	75%	111
				Total	119
				Max	116

(5) Construction of Noise Barriers/Enclosure

Construction of Barrier Foundation

Powered Mechanical Equipm (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Piling Rig	CNP 166	1	100	100.0%	100
Excavator	CNP 081	1	112	75.0%	111
Concrete Truck	CNP 044	1	109	100%	109
Bar Bender	CNP 021	1	90	100.0%	90
Poker Vibrator	CNP 170	1	113	100.0%	113
Truck	CNP 067	1	117	75.0%	116
				Total	119
				Max	116

Installation of Barrier

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	100%	112
				Total	117
				Max	116

(6) Road Widening Works

Tree Felling / Transplantation

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Saw, circular, wood	CNP 201	1	108	100%	108
Excavator	CNP 081	1	112	100%	112
Crane	CNP 048	1	112	75.0%	111
Truck	CNP 067	1	117	75.0%	116
				Total	119
				Max	116

Utilities Diversion / Works (e.g. Construct Storm Water Drain, Cable Duct, etc)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	100%	112
Truck	CNP 067	1	117	75%	116
				Total	117
				Max	116

Bulk Excavation

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	100%	112
Truck	CNP 067	1	117	75%	116
				Total	117
				Max	116

Construction of Slope

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	100.0%	112
Concrete Truck	CNP 044	1	109	100%	109
Truck	CNP 067	1	117	75%	116
Crane	CNP 048	1	112	75%	111
				Total	119
				Max	116

Construction of road (e.g. base, surfacing, road kerbs, central dividers, parapets, etc)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Asphalt paver	CNP 004	1	109	100.0%	109
Roller, vibratory	CNP 186	1	108	100.0%	108
				Total	112
				Max	109

(7) E&M Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane	CNP 048	1	112	100%	112
Truck	CNP 067	1	117	75.0%	116
				Total	117
				Max	116

(8) Landscape Works

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Excavator	CNP 081	1	112	100%	112
Truck	CNP 067	1	117	75.0%	116
				Total	117
				Max	116

Note:

BS5228:Part 1:1997