Annex B5

Construction Plant Inventory (Mitigated)

Regulation of Shenzhen River Stage IV

Annex B5: Construction Plant Inventory (Mitigated)

Daytime Period (Normal days 0700 - 1900 hrs)

No.	Activities	Plant Item	TM / EPD ^[1] / BS 5228 ref.	No. of PME	On- time %	Type of Noise Control ^[3]	Noise reduction, dB(A)	Unit SWI dB(A)	L, SWL, dB(A)	Total SWL, dB(A) ^[2]	Groups ^[4]
Cons	struction of Shenzhen River Stag	e IV									
I)	Site Preparation										
	1 Site Clearance	Tracked Excavator/loader Lorry, with crane/grab, 5.5 tonne < gross vehicle weig	BS C3 97 EPD/PME/36	1 1	75% 50%	Noise barrier Noise barrier	-5 -5	105 105	99 97	101	
	2 Haul Road	Bulldozer	BS C3 65	1	75%	Noise barrier	-5	111	105	106	
		Tracked Excavator/loader Lorry, with crane/grab, 5.5 tonne < gross vehicle weig	BS C3 97	1 1	75% 50%	Noise barrier Noise barrier	-5 -5	105 105	99 97	100	
IV)	Works Area III										
1	1 River Excavation (Sediment)	Bulldozer Tracked Excavator/loader	BS C3 65 BS C3 97	1 2	75% 75%	Noise barrier Noise barrier	-5 -5	111 105	105 102	110	
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig		3	50%	Noise barrier	-5	105	102		
		Drill rig, rotary type (diesel)	CNP 072	1	50%	Noise barrier	-5	110	102		
		Mobile crane (62kW)	BS C7 114	1	50%	Noise barrier	-5	101	93		
		Concrete lorry mixer	CNP 044	1	50%	Noise barrier	-5	109	101		
		Concrete pump, stationary/lorry mounted	BS C6 36 CNP 065	1	50% 50%	Noise barrier	-5	106	98 98		
		Drill/grinder, hand-held (electric)	CNP 065	1	30 /6	Noise barrier	-5	98	90		
1	2 Haul Road	Bulldozer	BS C3 65	1	75%	Noise barrier	-5	111	105	106	
1		Tracked Excavator/loader	BS C3 97	1	75%	Noise barrier	-5	105	99		
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig		1	50%	Noise barrier	-5	105	97		
1	3 Excavation and River Training		BS C3 97	1	75%	Noise barrier	-5	105	99	108	
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig		1	50% 50%	Noise barrier	-5	105	97 106		
		Breaker, hand-held, mass > 20kg and < 35kg Concrete mixer (petrol)	CNP 025 CNP 046	2 1	50%	Noise barrier Noise barrier	-5 -5	111 96	106 88		
		Concrete pump, stationary/lorry mounted	BS C6 36	1	50%	Noise barrier	-5	106	98		
1	4 Landscaping	Bulldozer	BS C3 65	1	75%	Noise barrier	-5	111	105	108	
		Tracked Excavator/loader	BS C3 97	1	75% 50%	Noise barrier	-5	105	99		
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig Dump Truck (450kW, 50t)	CNP 072	1 1	50%	Noise barrier Noise barrier	-5 -5	105 110	97 102		
		Mobile crane (62kW)	BS C7 114	1	50%	Noise barrier	-5	101	93		
V)	Works Area IV										
		D 111	PG (22 (5	1	750/	N. 1 .	-	111	105	105	
1	5 River Excavation (Sediment)	Bulldozer Tracked Excavator/loader	BS C3 65 BS C3 97	1 2	75% 75%	Noise barrier Noise barrier	-5 -5	111 105	105 102	105	A 105 B 105
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig		3	50%	Noise barrier	-5	105	102		C 105
		Drill rig, rotary type (diesel)	CNP 072	1	50%	Noise barrier	-5	110	102		c
		Mobile crane (62kW)	BS C7 114	1	50%	Noise barrier	-5	101	93		c
		Concrete lorry mixer	CNP 044	1	50%	Noise barrier	-5	109	101		В
		Concrete pump, stationary/lorry mounted Drill/grinder, hand-held (electric)	BS C6 36 CNP 065	1 1	50% 50%	Noise barrier Noise barrier	-5 -5	106 98	98 90		B C
		Dini, grinder, nand-neld (electric)	CIVI 005	1	0010	Noise barrier	-5	90	50		C
1	6 Haul Road	Bulldozer	BS C3 65	1	75%	Noise barrier	-5	111	105	106	
		Tracked Excavator/loader	BS C3 97	1	75% 50%	Noise barrier	-5	105	99 07		
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig	EPD/PME/36	1	30 /8	Noise barrier	-5	105	97		
1	7 Excavation and River Training	Tracked Excavator/loader	BS C3 97	1	75%	Noise barrier	-5	105	99	106	A 101
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig	EPD/PME/36	1	50%	Noise barrier	-5	105	97		Α
		Breaker, hand-held, mass > 20kg and < 35kg	CNP 025	2	50%	Noise barrier	-5	111	106		B 106
		Concrete mixer (petrol) Concrete pump, stationary/lorry mounted	CNP 046 BS C6 36	1 1	50% 50%	Noise barrier Noise barrier	-5 -5	96 106	88 98		C 98 C
				-			-				-
1	8 Landscaping	Bulldozer	BS C3 65	1	75%	Noise barrier	-5	111	105	105	A 105
		Tracked Excavator/loader	BS C3 97	1	75%	Noise barrier	-5	105	99		B 105
		Lorry, with crane/grab, 5.5 tonne < gross vehicle weig		1	50%	Noise barrier	-5	105	97		B
		Drill rig, rotary type (diesel) Mobile crane (62kW)	CNP 072 BS C7 114	1 1	50% 50%	Noise barrier Noise barrier	-5 -5	110 101	102 93		B B
VI)	Others										
V I)	Others										
1	9 Reprovisioning Works	Tracked Excavator/loader	BS C3 97	1	75%	Noise barrier	-5	105	99	105	
		Mobile crane (62kW) Concrete lorry mixer	BS C7 114 CNP 044	1 2	50% 50%	Noise barrier Noise barrier	-5 -5	101 109	93 104		
			CIVI OH	2		Noise burrer	5	105	104		
	Advanced Works	Tradical Excession / 1	RC C2 07	4	75%	NT-7 1 1	-	105	00	101	
2	0 Backfilling	Tracked Excavator/loader Lorry, with crane/grab, 5.5 tonne < gross vehicle weig	BS C3 97	1 1	75% 50%	Noise barrier Noise barrier	-5 -5	105 105	99 97	101	
		Generator, super silenced, 70dB(A) at 7m	CNP 103	1	50%	Noise barrier	-5	95	97 87		
		Mobile crane (62kW)	CNP 281	1	50%	Noise barrier	-5	93 88	80		
-	1 Road Construction	Tracked Eventuator /	RC C2 07	1	75%	Noi h'	-	105	00	104	
2	1 Road Construction	Tracked Excavator/loader Lorry, with crane/grab, 5.5 tonne < gross vehicle weig	BS C3 97 EPD/PME/36	1	75% 50%	Noise barrier Noise barrier	-5 -5	105 105	99 97	104	
		Road roller	CNP 185	1	50%	Noise barrier	-5	105	100		
							_				
2	2 Fence Installation	Lorry, with crane/grab, 5.5 tonne < gross vehicle weig		1	50% 50%	Noise barrier	-5	105	97 100	102	
		Generator, standard Drill/grinder, hand-held (electric)	CNP 101 CNP 065	1 1	50% 50%	Noise barrier Noise barrier	-5 -5	108 98	100 90		
		Sim, Brinder, mind-field (electric)	CINI 000	1	5070	1 NOISE Datriet	-5		<i>,</i> ,,		

Annex B5: Construction Plant Inventory (Mitigated)

Daytime Period (Normal days 0700 - 1900 hrs)

No. Activities	Plant Item	TM / EPD ^[1] / BS 5228 ref.	No. of PME	On- time %	Type of Noise Control ^[3]	Noise reduction, dB(A)	Unit SW dB(A)	L, SWL, dB(A)	Total SWL, Groups ^[4] dB(A) ^[2]
23 Drainage / Sinage Works	Tracked Excavator/loader	BS C3 97	1	75%	Noise barrier	-5	105	99	107
	Lorry, with crane/grab, 5.5 tonne < gross vehicle we	eigl EPD/PME/36	1	50%	Noise barrier	-5	105	97	
	Breaker, hand-held, mass > 20kg and < 35kg	CNP 025	2	50%	Noise barrier	-5	111	106	
	Concrete mixer (petrol)	CNP 046	1	50%	Noise barrier	-5	96	88	
	Concrete pump, stationary/lorry mounted	CNP 047	1	50%	Noise barrier	-5	103	95	
Comment Brainste									

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Concurrent Project :

Construction of a Secondary Boundary Fence and New Sections of Primary Boundary Fence and Boundary Patrol Road (AEIAR-136/2009)

Maximum SWLs for Activities 24 and 25 were extracted from the approved EIA Report (AEIAR-136/2009)

Construction Activities (Section 3 - Ng Tung River to Ping Yuen River) Construction Activities (Section 3 - Pak Fu Shan to Lin Ma Hang Road) 24

25

Notes:

 Notes:

 [1]
 BS - British Standard BS 5228:1997, Part 1 Noise and Vibration Control on Construction and Open Sites SWLs of EPD/PME items refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

 [2]
 The figures are rounded-up to a whole number.

 [3]
 Noise barrier for mobile PME
 -5dB(A)

 [4]
 Either Group A, B or C will be undertaken at any one time.