

Appendix 4.6 - Construction Plant Inventory (Mitigated Scenario)
Airport Tung Chung Link Project Environmental Impact Assessment

Construction Plant Inventory (Construction Works Area A)

Activity ID	Description of Activity	PME			No. of PME
		Group	Description	TM or other ref.	
A1	Site Establishment	A1.A	Excavator, wheeled/tracked	EPD-12254	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
			Hydraulic Concrete Crusher	EPD ^[1]	1
			Press-in piling	EPD ^[1]	1
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	EPD ^[2]	1
			Concrete Pump	Ref: AEIAR-173/2013 ^[3]	1
			Concrete Lorry Mixer	Ref: AEIAR-173/2013 ^[3]	1
			Asphalt Paver	Ref: AEIAR-173/2013 ^[3]	1
			Roller, vibratory	Ref: AEIAR-173/2013 ^[3]	1
	Water pump (electric)	CNP 281	1		

Notes:

[1]: The SWL is converted from SPL by distance attenuation in point source, and the SPL at 7m from the equipment is referenced to EPD website: https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-methods.html.

[2]: The SWL is referenced to EPD website: https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[3]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).

[4]: The construction works areas are shown in Figure 4.3.

Appendix 4.6 - Construction Plant Inventory (Mitigated Scenario)
Airport Tung Chung Link Project Environmental Impact Assessment

Construction Plant Inventory (Construction Works Area B)

Activity ID	Description of Activity	PME				
		Group ^[1]	Description	TM or other ref.		
B1	Site Establishment	B1.A	Excavator, wheeled/tracked	EPD-12254	2	
			Crane, mobile	EPD-10143	1	
			Generator	EPD-12349	1	
			Hydraulic Concrete Crusher	EPD ^[2]	1	
			Press-in piling	EPD ^[2]	1	
			Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	EPD ^[3]	1	
			Water pump (electric)	CNP 281	1	
B2	Substructure	B2.A	Piling, large diameter bored, grab and chisel	CNP 164	1	
			Air Compressor	EPD-11726	1	
			Crane, mobile	EPD-10143	1	
			Generator	EPD-12349	1	
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1	
			Excavator, wheeled/tracked	EPD-12254	2	
			Water pump (electric)	CNP 281	2	
		B2.B	Piling, large diameter bored, oscillator	CNP 165	1	
			Air Compressor	EPD-11726	1	
			Crane, mobile	EPD-10143	1	
			Generator	EPD-12349	1	
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1	
			Excavator, wheeled/tracked	EPD-12254	2	
			Water pump (electric)	CNP 281	2	
		B2.C	Piling, large diameter bored, reverse circulation drill	CNP 166	1	
			Air Compressor	EPD-11726	1	
			Crane, mobile	EPD-10143	1	
			Generator	EPD-12349	1	
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1	
			Excavator, wheeled/tracked	EPD-12254	2	
			Water pump (electric)	CNP 281	2	
			B2.D	Crane, mobile	EPD-10143	1
				Generator	EPD-12349	1
				Concrete Pump	Ref: AEIAR-173/2013 ^[4]	1
		Concrete Lorry Mixer		Ref: AEIAR-173/2013 ^[4]	2	
		Bar bender and cutter (electric)		CNP 021	1	
		Excavator, wheeled/tracked		EPD-12254	2	
		Lorry (24t)		Ref: AEIAR-173/2013 ^[4]	1	
Water pump (electric)	CNP 281	2				
B3	Superstructure	B3.A	Crane, mobile	EPD-10143	1	
			Generator	EPD-12349	2	
			Concrete Pump	Ref: AEIAR-173/2013 ^[4]	1	
			Concrete Lorry Mixer	Ref: AEIAR-173/2013 ^[4]	1	
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1	
			Excavator, wheeled/tracked	EPD-12254	2	
			Bar bender and cutter (electric)	CNP 021	1	
			Asphalt Paver	Ref: AEIAR-173/2013 ^[4]	1	
			Roller, vibratory	Ref: AEIAR-173/2013 ^[4]	1	
B4	Building Service and Finishes	B4.A	Generator	EPD-12349	1	
			Cherry picker	Ref: AEIAR-173/2013 ^[4]	2	

Notes:

[1]: PMEs in each works group under same activity would not take place with others at the same time.

[2]: The SWL is converted from SPL by distance attenuation in point source, and the SPL at 7m from the equipment is referenced to EPD website: https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-methods.html.

[3]: The SWL is referenced to EPD website: https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).

[5]: The construction works areas are shown in Figure 4.3.

Appendix 4.6 - Construction Plant Inventory (Mitigated Scenario)
Airport Tung Chung Link Project Environmental Impact Assessment

Construction Plant Inventory (Construction Works Area C)

Activity ID	Description of Activity	PME			No. of PME
		Group ^[1]	Description	TM or other ref.	
C1	Site Establishment	C1.A	Excavator, wheeled/tracked	EPD-12254	1
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	EPD ^[3]	1
			Hydraulic Concrete Crusher	EPD ^[2]	1
			Press-in piling	EPD ^[2]	1
			Generator	EPD-12349	1
C2	Substructure	C2.A	Piling, large diameter bored, grab and chisel	CNP 164	1
			Air Compressor	EPD-11726	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
			Water pump (electric)	CNP 281	2
		C2.B	Piling, large diameter bored, oscillator	CNP 165	1
			Air Compressor	EPD-11726	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
		C2.C	Piling, large diameter bored, reverse circulation drill	CNP 166	1
			Air Compressor	EPD-11726	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
			Water pump (electric)	CNP 281	2
		C2.D	Crane, mobile	EPD-10143	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	2
			Generator	EPD-12349	1
			Water pump (electric)	CNP 281	2
			Concrete Pump	Ref: AEIAR-173/2013 ^[4]	1
			Bar bender and cutter (electric)	CNP 021	1
		C3	Superstructure	C3.A	Crane, mobile
Winch (petrol)	CNP 263				1
C3.B	Crane, mobile			EPD-10143	1
	Winch (electric)			CNP 262	1
	Generator			EPD-12349	2
	Lorry (24t)			Ref: AEIAR-173/2013 ^[4]	1
C3.C	Excavator, wheeled/tracked			EPD-12254	2
	Concrete Pump			Ref: AEIAR-173/2013 ^[4]	1
	Concrete Lorry Mixer			Ref: AEIAR-173/2013 ^[4]	1
C3.D	Generator			EPD-12349	2
	Bar bender and cutter (electric)			CNP 021	1
C3.E	Asphalt Paver			Ref: AEIAR-173/2013 ^[4]	1
	Roller, vibratory			Ref: AEIAR-173/2013 ^[4]	1

Notes:

[1]: PMEs in each works group under same activity would not take place with others at the same time.

[2]: The SWL is converted from SPL by distance attenuation in point source, and the SPL at 7m from the equipment is referenced to EPD website: https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-methods.html.

[3]: The SWL is referenced to EPD website: https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[4]: The SWL of the PME is referenced to the EIA report of the Tseung Kwan O – Lam Tin Tunnel and Associated Works (Register No. AEIAR-173/2013).

[5]: The construction works areas are shown in Figure 4.3.

Appendix 4.6 - Construction Plant Inventory (Mitigated Scenario)
Airport Tung Chung Link Project Environmental Impact Assessment

Construction Plant Inventory (Construction Works Area D)

Activity ID	Description of Activity	PME			No. of PME
		Group ^[1]	Description	TM or other ref.	
D1	Site Establishment	D1.A	Excavator, wheeled/tracked	EPD-12254	1
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	EPD ^[2]	1
			Hydraulic Concrete Crusher	EPD ^[3]	1
			Press-in piling	EPD ^[3]	1
			Generator	EPD-12349	1
D2	Substructure	D2.A	Piling, large diameter bored, grab and chisel	CNP 164	1
			Air Compressor	EPD-11726	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
			Water pump (electric)	CNP 281	2
		D2.B	Piling, large diameter bored, oscillator	CNP 165	1
			Air Compressor	EPD-11726	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
			Water pump (electric)	CNP 281	2
		D2.C	Piling, large diameter bored, reverse circulation drill	CNP 166	1
			Air Compressor	EPD-11726	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
			Water pump (electric)	CNP 281	2
		D2.D	Crane, mobile	EPD-10143	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	2
			Generator	EPD-12349	1
			Water pump (electric)	CNP 281	2
			Concrete Pump	Ref: AEIAR-173/2013 ^[4]	1
			Bar bender and cutter (electric)	CNP 021	1
D3	Superstructure	D3.A	Crane, mobile	EPD-10143	1
			Winch (petrol)	CNP 263	1
		D3.B	Crane, mobile	EPD-10143	1
			Winch (electric)	CNP 262	1
			Generator	EPD-12349	2
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	2
		D3.C	Concrete Pump	Ref: AEIAR-173/2013 ^[4]	1
			Concrete Lorry Mixer	Ref: AEIAR-173/2013 ^[4]	1
			Generator	EPD-12349	2
		D3.D	Generator	EPD-12349	2
			Bar bender and cutter (electric)	CNP 021	1
		D3.E	Asphalt Paver	Ref: AEIAR-173/2013 ^[4]	1
			Roller, vibratory	Ref: AEIAR-173/2013 ^[4]	1

Notes:

[1]: PMEs in each works group under same activity would not take place with others at the same time.

[2]: The SWL is converted from SPL by distance attenuation in point source, and the SPL at 7m from the equipment is referenced to EPD website: https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-methods.html.

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Appendix 4.6 - Construction Plant Inventory (Mitigated Scenario)
Airport Tung Chung Link Project Environmental Impact Assessment

Construction Plant Inventory (Construction Works Area E)

Activity ID	Description of Activity	PME			
		Group ^[1]	Description	TM or other ref.	No. of PME
E1	Site Establishment	E1.A	Excavator, wheeled/tracked	EPD-12254	1
			Generator	EPD-12349	1
			Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	EPD ^[3]	1
			Press-in piling	EPD ^[2]	1
			Hydraulic Concrete Crusher	EPD ^[2]	1
E2	Substructure	E2.A	Piling, large diameter bored, reverse circulation drill	CNP 166	1
			Piling, large diameter bored, oscillator	CNP 165	1
			Air Compressor	EPD-11726	1
			Crane, mobile	EPD-10143	1
			Generator	EPD-12349	1
			Piling, large diameter bored, grab and chisel	CNP 164	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Concrete Pump	Ref: AEIAR-173/2013 ^[4]	1
			Concrete Lorry Mixer	Ref: AEIAR-173/2013 ^[4]	2
			Bar bender and cutter (electric)	CNP 021	1
			Excavator, wheeled/tracked	EPD-12254	2
Water pump (electric)	CNP 281	2			
E3	Superstructure	E3.A	Crane, mobile	EPD-10143	1
			Winch (petrol)	CNP 263	1
			Winch (electric)	CNP 262	1
			Generator	EPD-12349	2
			Concrete Pump	Ref: AEIAR-173/2013 ^[4]	1
			Concrete Lorry Mixer	Ref: AEIAR-173/2013 ^[4]	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Excavator, wheeled/tracked	EPD-12254	2
			Bar bender and cutter (electric)	CNP 021	1
			Asphalt Paver	Ref: AEIAR-173/2013 ^[4]	1
Roller, vibratory	Ref: AEIAR-173/2013 ^[4]	1			
E4	Landscape Softworks and Cycle Track	E4.A	Excavator, wheeled/tracked	EPD-12254	1
			Lorry (24t)	Ref: AEIAR-173/2013 ^[4]	1
			Generator	EPD-12349	1
			Compactor, vibratory	CNP 050	1

Notes:

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Appendix 4.6 - Construction Plant Inventory (Mitigated Scenario)
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Construction Plant Inventory (Construction Works Area F)

Activity ID	Description of Activity	PME			
		Group ^[1]	Description	TM or other ref.	No. of PME
F1	Substructure	F1.A	Piling, large diameter bored, reverse circulation drill	CNP 166	1
			Air Compressor	EPD-11726	1
			Crane, mobile	EPD-10143	1
			Excavator, wheeled/tracked	EPD-12254	1
			Generator	EPD-12349	2
			Derrick barge	CNP 061	1
			Tug boat	CNP 221	1
			Water pump, submersible (electric)	CNP 283	2
		F1.B	Piling, large diameter bored, oscillator	CNP 165	1
			Air Compressor	EPD-11726	1
			Crane, mobile	EPD-10143	1
			Excavator, wheeled/tracked	EPD-12254	1
			Generator	EPD-12349	2
			Derrick barge	CNP 061	1
			Tug boat	CNP 221	1
			Water pump, submersible (electric)	CNP 283	2
		F1.C	Piling, large diameter bored, grab and chisel	CNP 164	1
			Air Compressor	EPD-11726	1
			Crane, mobile	EPD-10143	1
			Excavator, wheeled/tracked	EPD-12254	1
			Generator	EPD-12349	2
			Derrick barge	CNP 061	1
			Tug boat	CNP 221	1
			Water pump, submersible (electric)	CNP 283	2
		F1.D	Crane, mobile	EPD-10143	1
			Excavator, wheeled/tracked	EPD-12254	1
			Generator	EPD-12349	2
			Water pump, submersible (electric)	CNP 283	2
Concrete Pump	Ref: AEIAR-173/2013 ^[2]		1		
Concrete lorry mixer	Ref: AEIAR-173/2013 ^[2]		1		
Bar bender and cutter (electric)	CNP 021		1		
Derrick barge	CNP 061		1		
Tug boat	CNP 221	1			
F2	Superstructure	F2.A	Crane, mobile	EPD-10143	1
			Derrick barge	CNP 061	1
			Tug boat	CNP 221	1
			Winch (petrol)	CNP 263	1
			Winch (electric)	CNP 262	1
			Generator	EPD-12349	2
			Concrete Pump	Ref: AEIAR-173/2013 ^[2]	1
			Concrete lorry mixer	Ref: AEIAR-173/2013 ^[2]	1
			Excavator, wheeled/tracked	EPD-12254	2
			Bar bender and cutter (electric)	CNP 021	1
			Asphalt Paver	Ref: AEIAR-173/2013 ^[2]	1
			Roller, vibratory	Ref: AEIAR-173/2013 ^[2]	1

Notes:

[1]: PMEs in each works group under same activity would not take place with others at the same time.

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[3]: The construction works areas are shown in Figure 4.3.