

Sea Link

Volume 6: Environmental Statement

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Part 1 Introduction
Chapter 4 Appendix 1.4.B
Construction Plant Schedule

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1. Construction Plant Schedule

Table 1.1 Construction plant for the installation of converter stations and underground cables to inform the construction noise assessment

Activity Description	Plant Description	Data Source	Sound Pressure Level at 10 m L_{Aeq} dB	Drive-by Maximum Sound Pressure Level at 10 m $L_{A(max)}$ dB	No	% on-time
Construction and removal of haul roads, construction compounds and working platforms for permanent works.	360 excavator	BS 5228-1 Table C.2 #5 Tracked excavator (72 kW, 16 t)	76	-	2	90
	360 excavator (idling)	BS 5228-1 Table C.2 #6 Tracked excavator (idling) (72 kW, 16 t)	63	-	2	10
	Bulldozer	BS 5228-1 Table C.2 #10 Dozer (239 kW, 41 t)	80	-	2	100
	Dumper trucks	BS 5228-1 Table C.4 #4 Dumper (75 kW, 9 t)	-	76	3	90
	Dumper trucks (idling)	BS 5228-1 Table C.4 #5 Dumper (idling) (75 kW, 9 t)	63	-	3	10
	Smooth roller compacting plant	BS 5228-1 Table C.5 #19 Road roller (95 kW, 22 t)	-	80	1	65
	CBS/Concrete mixer 8 m³ capacity	BS 5228-1 Table C.4 #18 Cement Mixer Truck (discharging)	75	-	1	25
		BS 5228-1 Table C.4 #19 Cement Mixer Truck (idling)	71	-	1	50
	Tipper Eight-wheeled tipper lorry	BS 5228-1 Table D.3 #112 Tipper lorry (75 kW)	85	-	4	25

Activity Description	Plant Description	Data Source	Sound Pressure Level at 10 m L _{Aeq} dB	Drive-by Maximum Sound Pressure Level at 10 m L _{A(max)} dB	No	% on-time
Site establishment and demobilisation	Roller Ammann AV 70-2	BS 5228-1 Table C.5 #19 Road roller (95 kW, 22 t)	-	80	1	25
	Articulated lorry DSV mega trailer	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	2	10
	Fuel tank 7,500 Litre bunded fuel tanker	BS 5228-1 Table C.4 #15 Fuel tanker lorry (11 t)	-	76	1	10
	Medium crane NHC 100T crane	BS 5228-1 Table C.4 #41 Mobile telescopic crane (280 kW, 100 t)	71	-	1	25
Installation and removal of security fence	Readymix (discharging)	BS 5228-1 Table C.4 #18 Cement mixer truck- (discharging)	75	-	3	65
	Readymix (idling)	BS 5228-1 Table C.4 #19 Cement mixer truck (idling)	71	-	3	65
	Dumper trucks	BS 5228-1 Table C.4 #4 Dumper (75 kW, 9 t)	76	-	1	100
	Dumper trucks (idling)	BS 5228-1 Table C.4 #5 Dumper (idling) (75 kW, 9 t)	63	-	1	100
	Jackhammers	BS 5228-1 Table C.5 #4 Road breaker (hand-held pneumatic)	95	-	2	50
	Compressor	BS 5228-1 Table C.5 #5 Compressor for hand-held pneumatic breaker (1 t)	65	-	1	50
	Telehandler	BS 5228-1 Table C.4 #54 Telescopic handler (76 kW, 4 t)	79	-	1	100
	360 excavator	BS 5228-1 Table C.2 #5 Tracked excavator (72 kW, 16 t)	76	-	1	100
	360 excavator (idling)	BS 5228-1 Table C.2 #6 Tracked excavator (idling) (72 kW, 16 t)	63	-	1	100
	360 excavator	BS 5228-1 Table C.2 #5 Tracked excavator (72 kW, 16 t)	76	-	2	90
Construction of foundations (buildings,	360 excavator	BS 5228-1 Table C.2 #5 Tracked excavator (72 kW, 16 t)	76	-	2	90

Activity Description	Plant Description	Data Source	Sound Pressure Level at 10 m L_{Aeq} dB	Drive-by Maximum Sound Pressure Level at 10 m $L_{A(max)}$ dB	No	% on-time
bridges, HV equipment and OHL towers) Install piles on site	360 excavator (idling)	BS 5228-1 Table C.2 #6 Tracked excavator (idling) (72 kW, 16 t)	63	-	2	10
	Dumper trucks	BS 5228-1 Table C.4 #4 Dumper (75 kW, 9 t)	76	-	2	65
	Dumper trucks (idling)	BS 5228-1 Table C.4 #5 Dumper (idling) (75 kW, 9 t)	63	-	2	65
	Ready mix delivery (discharging)	BS 5228-1 Table C.4 #18 Cement mixer truck (discharging)	75	-	2	90
	Ready mix delivery (idling)	BS 5228-1 Table C.4 #19 Cement mixer truck (idling)	71	-	2	10
	Telehandler	BS 5228-1 Table C.4 #54 Telescopic handler (76 kW, 4 t)	79	-	2	100
	Hydrovac	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	1	100
	Piling rig 380-600mm	BS 5228-1 Table C.3 #22 Continuous Flight Auger Crawler mounted rig (126 kW, 33 t)	80	-	2	50
	Vibration compaction plant	BS 5228-1 Table C.5 #29 Vibratory compactor (asphalt) (3 kW, 60 kg)	82	-	1	50
Building structures (including delivery of equipment and steel structures to site and erecting bridges, building, HV equipment and OHL towers)	Compressor	BS 5228-1 Table C.5 #5 Compressor for hand held pneumatic breaker (1 t)	65	-	1	10
	Medium low loader 20 t capacity low loader	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	2	10
	CBS/Concrete mixer 8 m³ capacity	BS 5228-1 Table C.4 #18 Cement Mixer Truck (discharging)	75	-	2	25
		BS 5228-1 Table C.4 #19 Cement Mixer Truck (idling)	71	-	2	50

Activity Description	Plant Description	Data Source	Sound Pressure Level at 10 m L_{Aeq} dB	Drive-by Maximum Sound Pressure Level at 10 m $L_{A(max)}$ dB	No	% on-time
	Articulated lorry DSV mega trailer	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	2	10
	Large crane Liebherr 200–250 tonne crane	BS 5228-1 Table C.4 #38 Wheeled mobile telescopic crane (610 kW, 400 t)	78	-	1	10
	Medium crane NHC 100T crane	BS 5228-1 Table C.4 #41 Mobile telescopic crane (280 kW, 100 t)	71	-	1	25
	Tele handler JCB 17m telehandler	BS 5228-1 Table C.4 #55 Telescopic handler (75 kW, 3.7 t)	70	-	2	50
	Compressor	BS 5228-1 Table C.5 #5 Compressor for hand-held pneumatic breaker (1 t)	65	-	1	50
Transport transformers to site (Converter Station sites only)	AIL - Transformer delivery specialist low loader, AIL - Transformer delivery specialist low loader, AIL - Transformer delivery specialist low loader	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	1	10
Cable and conductor works (including trenchless installation, trenching, ducting and cable/conductor installation)	Horizontal directional drill JT60 directional drill	BS 5228-1 Table C.4 #96 Directional drill (generator) (106 kW)	77	-	1	25
	Cable drum delivery vehicle Category 3 vehicle and trailer	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	1	10
	Articulated lorry DSV mega trailer	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	1	10

Activity Description	Plant Description	Data Source	Sound Pressure Level at 10 m L_{Aeq} dB	Drive-by Maximum Sound Pressure Level at 10 m $L_{A(max)}$ dB	No	% on-time
	Cable drum installation rear-facing trailer Such as SEB CD980	BS 5228-1 Table C.4 #75 Tractor (towing trailer) (71 kW, 3.5 t)	-	79	1	25
	Cable drum installation side-facing trailer such as Goldhofer cable installation trailer	BS 5228-1 Table C.11 #4 Lorry (350 kW, 44 t)	-	83	1	25
	CBS/Concrete mixer 8 m³ capacity	BS 5228-1 Table C.4 #18 Cement Mixer Truck (discharging)	75	-	1	25
		BS 5228-1 Table C.4 #19 Cement Mixer Truck (idling)	71	-	1	50
	Dump truck 30 t bell dump truck	BS 5228-1 Table C.4 #1 Articulated dump truck (194 kW, 25 t)	-	81	1	25
	Dumper 10 t Dumper - Hydrema 912F & 912F MultiTip	BS 5228-1 Table C.4 #4 Dumper (75 kW, 9 t)	-	76	3	50
		BS 5228-1 Table C.4 #5 Dumper (idling) (75 kW, 9 t)	63	-	3	40
	Excavator Hyundai HX300 (30 t excavator)	BS 5228-1 Table C.2 #16 Tracked excavator (170 kW, 30t)	75	-	1	25
	Fuel tank 7,500 Litre bunded fuel tanker	BS 5228-1 Table C.4 #15 Fuel tanker lorry (11 t)	-	76	1	10
	Large crane Liebherr 200–250 tonne crane	BS 5228-1 Table C.4 #38 Wheeled mobile telescopic crane (610 kW, 400 t)	78	-	1	10

Activity Description	Plant Description	Data Source	Sound Pressure Level at 10 m L_{Aeq} dB	Drive-by Maximum Sound Pressure Level at 10 m $L_{A(max)}$ dB	No	% on-time
	Medium crane NHC 100T crane	BS 5228-1 Table C.4 #41 Mobile telescopic crane (280 kW, 100 t)	71	-	1	25
	Medium excavator JCB 13 Tonne Excavator	BS 5228-1 Table C.4 #56 Wheeled excavator (63 kW, 14 t)	83	-	2	50
	Roller Ammann AV 70-2	BS 5228-1 Table C.5 #19 Road roller (95 kW, 22 t)	-	80	1	25
	Small excavator 5 t excavator	BS 5228-1 Table C.4 #68 Mini tracked excavator (30 kW, 5 t)	65	-	1	25
	Tele handler JCB 17m telehandler	BS 5228-1 Table C.4 #55 Telescopic handler (75 kW, 3.7 t)	70	-	2	50
	Tipper Eight-wheeled tipper lorry	BS 5228-1 Table D.3 #112 Tipper lorry (75 kW)	85	-	1	25
	Tractor trailer 9R 440, 356 kW Engine power	BS 5228-1 Table C.4 #75 Tractor (towing trailer) (71 kW, 3.5 t)	-	79	1	10

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