

Annex 5-D

Construction Plant Inventory

Annex 5-D - Preliminary Construction Plant Inventory

BLACK POINT OPTION

LAND BASED WORKS

Activity	Plant Required	No. of PME	CNP / BS5228 Ref.	SWL	Overall SWL
Earthwork					
- Site Clearance	Bulldozer / Excavator	2	CNP 030	115	118
	Backactor mounted with Breaker	3	CNP 027	122	127
	Truck	1	CNP 067	117	117
	Mobile Crane	4	CNP 048	112	118
	<i>Sub-total SWL =</i>				128
- Soil Compaction	Pneumatic Roller	1	CNP 185	108	108
	Mobile Crane	4	CNP 048	112	118
	<i>Sub-total SWL =</i>				118
- Blasting and Excavation	Bulldozer / Excavator	5	CNP 030	115	122
	Backactor mounted Drilling Rig	10	CNP 027	122	132
	Backactor mounted with Breaker	4	CNP 027	122	128
	Truck	12	CNP 067	117	128
	Electric Generator	4	CNP 101	108	114
	Concrete crushers, excavator mounted	2	.. ⁽¹⁾	103	106
	Mobile Crane	1	CNP 048	112	112
	Air Compressor	2	CNP 003	104	107
<i>Sub-total SWL =</i>				135	
- Slope Stabilization and Drainage Works	Backactor mounted Drilling Rig	3	CNP 027	122	127
	Water Pump	2	CNP 282	103	106
	Backactor mounted with Breaker	3	CNP 027	122	127
	Concrete Pumps	2	CNP 047	109	112
	Grout Pump w/Mixer	2	.. ⁽¹⁾	105	108
	<i>Sub-total SWL =</i>				130

RECLAMATION

Activity	Plant Required	No. of PME	CNP / BS5228 Ref.	SWL	Overall SWL
Dredging					
	Dredger - Grab	2	CNP 063	112	115
	Tug Boat / Motor Boat	2	CNP 221	110	113
	Split Bottom Barge	2	CNP 061	104	107
<i>Sub-total SWL =</i>				118	
Seawall Construction					
Placing Seawall Core	Tug Boat / Motor Boat	1	CNP 221	110	110
	Derrick Lighter	2	CNP 061	104	107
	Split Bottom Barge	2	CNP 061	104	107
<i>Sub-total SWL =</i>				113	
Placing Seawall Rock Armour	Derrick Lighter	2	CNP 061	104	107
	Backactor	2	CNP 027	122	125
	<i>Sub-total SWL =</i>				125
Placing Fill					
	Derrick Lighter	2	CNP 061	104	107
	Sand Barge + Generator	3	CNP 061+CNP 101	109	114
	Vibro-compactor	2	CNP 050	105	108
	Backactor	4	CNP 027	122	128
	Bulldozer / Excavator	8	CNP 030	115	124
	Pneumatic Roller	4	CNP 185	108	114
	Truck	12	CNP 141	112	123
	<i>Sub-total SWL =</i>				131
Drainage Works					
Install of Temporary Work	Backactor mounted with Vibrator	2	CNP 027	122	125
	Cutter, circular, steel (electric)	2	.. ⁽¹⁾	112	115
	Grinding Machine	2	CNP 065	98	101
<i>Sub-total SWL =</i>				125	
Laying of Drainage Pipes	Backactor	2	CNP 081	112	115
	Truck	1	CNP 067	117	117
<i>Sub-total SWL =</i>				119	
Backfilling	Pneumatic Roller	1	CNP 185	108	108
	Backactor	2	CNP 081	112	115
<i>Sub-total SWL =</i>				116	

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MAIN JETTY

Activity	Plant Required	No. of PME	CNP / BS5228 Ref.	SWL	Overall SWL	
Ground Investigation	SI Barge + Generator	2	CNP 061+CNP 101	109	112	
	Split Bottom Barge	2	CNP 061	104	107	
			<i>Sub-total SWL =</i>	113		
Jetties and Access Bridge						
- Steel Piles Construction	Crawler Crane	2	CNP 048	112	115	
	900 CFM Air Compressor	1	CNP 002	102	102	
	Mobile Crane	1	CNP 048	112	112	
	350 CFM Air Compressor	1	CNP 001	100	100	
	Tugboat	4	CNP 221	110	116	
	Truck	1	CNP 067	117	117	
	Generator	1	CNP 101	108	108	
	SI Barge + Generator	3	CNP 061+CNP 101	109	114	
	Piling, earth auger	3	CNP 167	114	119	
	Derrick Lighter	7	CNP 061	104	112	
	Automatic Grinder Machine	2	CNP 065	98	101	
	Poker, vibratory	2	CNP 170	113	116	
			<i>Sub-total SWL =</i>	125		
	- Concrete Caps, Slabs and Foundations	Crawler Crane	2	CNP 048	112	115
		900 CFM Air Compressor	2	CNP 002	102	105
25 Ton Mobile Crane		1	CNP 048	112	112	
350 CFM Air Compressor		2	CNP 001	100	103	
Tugboat		7	CNP 221	110	118	
Truck		1	CNP 067	117	117	
Generator		1	CNP 101	108	108	
Derrick Lighter		7	CNP 061	104	112	
Poker, vibratory		4	CNP 170	113	119	
Concrete Pump		2	CNP 047	109	112	
Bar bender and cutter		4	CNP 021	90	96	
Water Pump		4	CNP 282	103	109	
			<i>Sub-total SWL =</i>	125		
Dredging of Approach Channel and Turning Basin		Trailing Suction Hopper Dredger	1	Penny Bay EIA ⁽²⁾	109	109
		Mobile Crane	1	CNP 048	112	112
	Tugboat	2	CNP 221	110	113	
	Generator	1	CNP 101	108	108	
	Derrick Lighter	2	CNP 061	104	107	
	Dredger - Grab	3	CNP 063	112	117	
			<i>Sub-total SWL =</i>	120		
Intake and Outfall Construction	Tug Boat / Motor Boat	1	CNP 221	110	110	
	Derrick Lighter	1	CNP 061	104	104	
	Dredger - Grab	1	CNP 063	112	112	
			<i>Sub-total SWL =</i>	115		

LNG TERMINAL CIVIL, M&E WORK

Activity	Plant Required	No. of PME	CNP / BS5228 Ref.	SWL	Overall SWL
Terminal Civil Work	Truck	3	CNP 067	117	122
	Derrick Barge	9	CNP 061	104	114
	Tugboat	5	CNP 221	110	117
	Crawler Crane	15	CNP 048	112	124
	Drill Rig	3	Table C.10 Ref No. 2 ⁽³⁾	112	117
	Backhoe - Track	2	CNP 081	112	115
	Forklift	11	Penny Bay EIA ⁽²⁾	113	123
	Dump truck, with grab	1	.. ⁽¹⁾	105	105
	Track Drill	1	Table C.3 Ref No. 123 ⁽³⁾	128	128
	Generator	9	CNP 101	108	118
	Air Compressor 375 cfm, Portable	13	CNP 001	100	111
	Air Compressor 900 cfm, Portable	1	CNP 002	100	100
	Air Compressor 1200 cfm, Portable	1	CNP 003	104	104
	Air Compressor 2000 cfm, Portable	1	CNP 003	104	104
	Winch - Hoist 2 Drum	1	CNP 263	102	102
	Pump - Submersible	2	CNP 283	85	88
	Water jetting unit	1	.. ⁽¹⁾	107	107
	Pump - Concrete	4	CNP 047	109	115
	Grout Pump w/Mixer	1	.. ⁽¹⁾	105	105
	Tractor with Trailer	2	CNP 222	118	121
	Tower Crane	2	CNP 049	95	98
	Automatic Grinder Machine	8	CNP 065	98	107
	Air blower	3	.. ⁽¹⁾	95	100
	Winch (Power & Pneumatic/3 ton)	8	CNP 261	110	119
	Discharging Pump	4	CNP 282	103	109
	Batching Plant 60 CM/HR	2	CNP 022	108	111
	Concrete Mixer	10	CNP 046	96	106
	Poker, vibratory	8	CNP 170	113	122
	Bar bender and cutter	8	CNP 021	90	99
			<i>Sub-total SWL =</i>	133	

Remark:

(1) SWL 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) SWL refer to the approved EIA Report for the Construction of an International Theme Park in Penny's Bay of North Lantau and its Essential Associated Infrastructures

(3) SWL refer to the BS 5228 : Part 1: 1997