

Appendix 5.2 Powered Mechanical Equipment (PME) for Demolition/Construction Tasks (Without Mitigation Measures)

Area D-01

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Demolition	Excavator	CNP 081	112	2	30%		109.8
	Excavator	CNP 081	112	2	40%		111.0
	Hand-held breaker	CNP 025	111	4	30%		111.8
	Dump truck	CNP 067	117	4	40%		119.0
<b>Total SWL:</b>							120.7

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Sheet Steel Piling	Vibratory Piling Rig	BS C3/8	116	2	30%		113.8
<b>Total SWL:</b>							113.8

Area D-02

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Demolition	Excavator	CNP 081	112	2	60%		112.8
	Excavator	CNP 081	112	2	60%		112.8
	Hand-held breaker	CNP 025	111	4	40%		113.0
	Dump truck	CNP 067	117	6	40%		120.8
<b>Total SWL:</b>							122.5

Area D-03

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Demolition	Excavator	CNP 081	112	2	60%		112.8
	Excavator	CNP 081	112	2	60%		112.8
	Hand-held breaker	CNP 025	111	4	40%		113.0
	Dump truck	CNP 067	117	6	40%		120.8
<b>Total SWL:</b>							122.5

Area D-04

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Demolition	Excavator	CNP 081	112	2	40%		111.0
	Excavator	CNP 081	112	2	40%		111.0
	Hand-held breaker	CNP 025	111	2	40%		110.0
	Dump truck	CNP 067	117	4	40%		119.0
<b>Total SWL:</b>							120.6

Area C-01

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	2	50%		116.0
<b>Total SWL:</b>							116.0
Deep Excavation	Dump Truck	CNP 067	117	4	50%		120.0
	Excavator	CNP 081	112	2	50%		112.0
<b>Total SWL:</b>							120.6

Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Area C-02

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	4	50%		119.0
<b>Total SWL:</b>							119.0
Deep Excavation	Dump Truck	CNP 067	117	6	50%		121.8
	Excavator	CNP 081	112	4	50%		115.0
<b>Total SWL:</b>							122.6

Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Appendix 5.2 Powered Mechanical Equipment (PME) for Demolition/Construction Tasks (Without Mitigation Measures)

Area C-03

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	4	30%		116.8
<b>Total SWL:</b>							116.8

Deep Excavation	Dump Truck	CNP 067	117	6	30%		119.6
	Excavator	CNP 081	112	4	30%		112.8
<b>Total SWL:</b>							120.4

Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	Tower Crane	BS C4/48	104	1	50%		101.0
<b>Total SWL:</b>							115.4

Area C-04

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Sheet Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	4	50%		119.0
<b>Total SWL:</b>							119.0

Deep Excavation	Dump Truck	CNP 067	117	6	50%		121.8
	Excavator	CNP 081	112	4	50%		115.0
<b>Total SWL:</b>							122.6

Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Area C-05

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Sheet Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	4	50%		119.0
<b>Total SWL:</b>							119.0

Deep Excavation	Dump Truck	CNP 067	117	6	50%		121.8
	Excavator	CNP 081	112	4	50%		115.0
<b>Total SWL:</b>							122.6

Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Area C-06

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Sheet Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	4	50%		119.0
<b>Total SWL:</b>							119.0

Deep Excavation	Dump Truck	CNP 067	117	6	50%		121.8
	Excavator	CNP 081	112	4	50%		115.0
<b>Total SWL:</b>							122.6

Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Area C-07

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Sheet Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	4	50%		119.0
<b>Total SWL:</b>							119.0

Deep Excavation	Dump Truck	CNP 067	117	6	50%		121.8
	Excavator	CNP 081	112	4	50%		115.0
<b>Total SWL:</b>							122.6

Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Appendix 5.2 Powered Mechanical Equipment (PME) for Demolition/Construction Tasks (Without Mitigation Measures)

Area C-08

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Sheet Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	2	50%		116.0
		<b>Total SWL:</b>					
Deep Excavation	Dump Truck	CNP 067	117	4	50%		120.0
		CNP 081	112	2	50%		112.0
<b>Total SWL:</b>							120.6
Substructure and Superstructure	Excavator	CNP 081	112	2	10%		105.0
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Area C-10

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Sheet Steel Piling (cofferdam)	Vibratory Piling Rig	BS C3/8	116	2	50%		116.0
		<b>Total SWL:</b>					
Deep Excavation	Dump Truck	CNP 067	117	4	50%		120.0
		CNP 081	112	2	50%		112.0
<b>Total SWL:</b>							120.6
Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	2	30%		110.8
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	1	80%		95.0
	<b>Total SWL:</b>						

Area C-11

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Bored Piling	Piling Machine	CNP 164	115	2	30%		112.8
		CNP 047	109	2	30%		106.8
<b>Total SWL:</b>							113.8
Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	4	30%		113.8
	Tower Crane	BS C4/48	104	1	50%		101.0
	Mobile Crane	CNP 048	112	1	50%		109.0
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	2	50%		96.0
<b>Total SWL:</b>							117.0

Area C-12

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Bored Piling (Retaining Wall)	Piling Machine	CNP 164	115	2	30%		112.8
		CNP 047	109	2	30%		106.8
<b>Total SWL:</b>							113.8
Deep Excavation	Dump Truck	CNP 067	117	6	40%		120.8
		CNP 081	112	4	60%		115.8
	Excavator	CNP 081	112	2	40%		111.0
		BS C2/10	108	1	30%		102.8
<b>Total SWL:</b>							122.4
Road Paving	Road Roller	CNP 185	108	2	30%		105.8
<b>Total SWL:</b>							105.8
Bored Piling (Building Foundation)	Piling Machine	CNP 164	115	2	50%		115.0
		CNP 047	109	2	30%		106.8
<b>Total SWL:</b>							115.6
Substructure and Superstructure	Excavator	CNP 081	112	2	30%		109.8
	Concrete pump + truck	CNP 047	109	2	30%		106.8
	Poker Vibrator	CNP 170	113	4	30%		113.8
	Tower Crane	BS C4/48	104	4	50%		107.0
	Mobile Crane	CNP 048	112	1	30%		106.8
	Diesel Generator	CNP 101	108	1	30%		102.8
	Water Pump	BS C4/88	96	2	50%		96.0
<b>Total SWL:</b>							117.0

Area C-14

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Lifting	Mobile Crane	CNP 048	112	1	100%		112.0
<b>Total SWL:</b>							112.0

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Area C-15

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL	
Bored Piling (Foundation)	Piling Machine	BS C3/14	111	1	50%		108.0	
		CNP 047	109	1	30%		103.8	
<b>Total SWL:</b>							109.4	
Superstructure	Excavator	CNP 081	112	1	30%		106.8	
		CNP 047	109	1	30%		103.8	
	Concrete Pump + Truck	Poker Vibrator	CNP 170	113	2	30%		110.8
		Mobile Crane	CNP 048	112	1	30%		106.8
<b>Total SWL:</b>							113.8	

Area C-16

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Bored Piling (Foundation)	Piling Machine	BS C3/14	111	2	30%		108.8
		CNP 047	109	2	30%		106.8
<b>Total SWL:</b>							110.9
Excavation	Excavator	CNP 081	112	2	40%		111.0
		CNP 067	117	3	40%		117.8
<b>Total SWL:</b>							118.6
Road Paving	Bulldozer	CNP 030	115	1	30%		109.8
		CNP 185	108	1	30%		102.8
<b>Total SWL:</b>							110.6

Access Road

Activity	Item	SWL ref.	SWL	No. of Plant	Utilization Rate	Mitigation Measure	Sub-Total SWL
Road Surface Breaking	Backhoe Mounted Hydraulic Breaker	BS C5/1	116	1	30%		110.8
<b>Total SWL:</b>							110.8
Excavation	Excavator	CNP 081	112	1	30%		106.8
		CNP 067	117	1	30%		111.8
<b>Total SWL:</b>							113.0
Road Paving	Road Roller	CNP 185	108	1	30%		102.8
<b>Total SWL:</b>							102.8