North Approaching Tunnel (Source ID: NAT1 - 28)

Yearly Estimate - Feb 2014 to Jan 2015

Total works area = 26576.49 m²

Area C1 North Approach Tunnel

 Activity 1 - Demolish Exisiting way & Works Workshop(ID: 11110NF08000)

 From:
 1-Feb-14
 To:
 1-Mar-14

Plant	Percentage		Area in term of				
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)	
Backhoe with Hydraulic Breaker	70	3.2	8	1	25.6	17.92	
Dump Truck	30	2.4	10	1	24	7.2	
					Total:	25.12	
Activity 1		Percentage of Usage Area to Works Area					

Duration:

Duration:

Percentage of Yearly Usage:

10

Percentage of Yearly Usage:

months

0.008%

months

months

months

0.12%

Cheung Wan Road Viaduct

Activity 1- Construction of substructure and superstructure for diversion bridge(ID: 11110VD04400 to 11110VD04420)

From: 1-Feb-14 To: 31-Jul-14 Duration

Plant	Percentage	Percentage Plan Size					
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)	
Excavator	50	3.2	8	1	25.6	12.8	
Concrete Lorry Mixer	30	2.4	10	2	48	14.4	
Poker, Vibrator, hand-held#	-	-	-	-	-	-	
Air Compressor#	-	-	-	-	-	-	
Crane, mobile	30	2.6	10	1	26	7.8	
					Total:	35	
Activity 1		Percentage of Usage Area to Works Area:					
- 1				Percentage	of Vearly Usage:	0.07%	

 Activity 2 - Demolish of existing viaduct(ID: 11110VD04600)

 From:
 1-Aug-14
 To:

Plant	Percentage	Percentage Plan Size						
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)		
Excavator	70	3.2	8	1	25.6	17.92		
Hydraulic breaker	70	3.2	8	1	25.6	17.92		
Concrete saw	40	1	2	1	2	0.8		
Air compressor#	-	-	-	-	-	-		
Lorry with crane/grab	100	2.4	10	1	24	24		
Crane, mobile	70	2.6	10	1	26	18.2		
Welder/generator#	-	-	-	-	-	-		
					Total:	78.84		
Activity 2		Percentage of Usage Area to Works Area:				0.3%		
-		Percentage of Yearly Usage:						

30-Sep-14

Storm Water Culvert

 Activity 1- Construct New Box Culvert(ID: 11110CW03500)

 From:
 1-Feb-14
 To:

Plant	Percentage	Percentage Plan Size					
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)	
Backhoe with Hydraulic Breaker	70	3.2	8	1	25.6	17.92	
Dump Truck	30	2.4	10	1	24	7.2	
Bar bender and cutter#	-	-	-	-	-	-	
Concrete pump truck	30	2.4	10	1	24	7.2	
Concrete mixer truck	30	2.4	10	1	24	7.2	
			•	•	Total:	39.52	
Activity 1	Percentage of Usage Area to Works Area					0.1%	

30-Nov-14 Duration:

To:

Podium to Existing Culvert

Activity 1- Temporar	v cofferdam NSL & EV	VL(ID: 11110NF10110)
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From:	1-Aug-14	To:	31-Oct-14	Duration:		3	months
DI			1	DI 0'			
Plant		Percentage		Plan Size			Area in term of
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Pipe Piling Rig		70	2.3	6	2	27.6	19.32
Crawler crane		30	4.5	8	1	36	10.8
Grout mixer#		-	-	-	-	-	-
Grout pump#		-	-	-	-	-	-
Air compressor#		-	-	-	-	-	-
Drill rig, rotary type(diese	el)	50	2.3	6	1	13.8	6.9
Backhoe with hydraulic b	reaker	30	3.2	8	1	25.6	7.68
•						Total:	44.7
Activity 1		Percentage of Usage Area to Works Area:					0.2%
					Percentage	of Yearly Usage:	0.04%

Activity 2- Excavation(ID: 11110NF11110)

Plant	Percentage	Percentage Plan Size						
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)		
Backhoe	70	3.2	8	1	25.6	17.92		
Dump Truck	30	2.4	10	1	24	7.2		
					Total:	25.12		
Activity 2		Percentage of Usage Area to Works Area:						
			0.02%					

31-Jan-15 Duration:

months

months

Area C2 **Existing Culvert to STA building**

Activity 1 - Temporary Cofferdam(ID: 11110NF10210) From: 1-Feb-14 To:

From:	1-Feb-14	To:	30-Jun-14	Duration:		5	months
Plant		Percentage	ercentage Plan Size				
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Pipe Piling Rig		70	2.3	6	2	27.6	19.32
Crawler crane		30	4.5	8	1	36	10.8
Grout mixer#		-	-	-	-	-	-
Grout pump#		-	-	-	-	-	-
Air compressor#		-	-	-	-	-	-
Drill rig, rotary type	(diesel)	50	2.3	6	1	13.8	6.9
Backhoe with hydra	aulic breaker	30	3.2	8	1	25.6	7.68
						Total:	44.7
Activity 1				Percenta	age of Usage Ar	ea to Works Area:	0.2%
•					Percentage	e of Yearly Usage:	0.07%

Activity 2 - Excavation(ID: 11110NF11210) From: 1-Jul-14 From: 1-Jul-14

From:	1-Jul-14	To:	31-Dec-14	31-Dec-14 Duration: 6			months	
Plant Percentage Plan Size							Area in term of	
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)	
Backhoe		70	3.2	8	2	51.2	35.84	
Dump Truck		30	2.4	10	2	48	14.4	
						Total:	50.24	
Activity 2		Percentage of Usage Area to Works Area: 0.2%						
					Percentag	e of Yearly Usage:	0.09%	

Duration:

Activity 3 - Concrete structures NSL(ID:11110NF12220) From: 1-Jan-15 To:

-							
Plant		Percentage		Plan Size			Area in term of
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Backhoe		30	3.2	8	1	25.6	7.68
Crawler crane		30	4.5	8	1	36	10.8
Bar bender and cutter#			-	-	-	-	-
Concrete Mixer Truck		50	2.4	10	2	48	24
Concrete Pump Truck		50	2.4	10	2	48	24
Poker, vibrator,hand-he	ld#		-	-	-	-	-
						Total:	66.48
Activity 3	•	Percentage of Usage Area to Works Area:					0.3%
				·	Percentag	e of Yearly Usage:	0.02%

31-Jan-15

Area C3A STA building to Chatham Road North(OB2)

Activity 1 - Temp	orary Cofferdam	NSL(ID: 1111	ONF10320)
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From:	1-Feb-14	To:	30-Apr-14	Dur	ration:	3	months	
Plant		Percentage	Percentage Plan Size					
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)	
Pipe Piling Rig		70	2.3	6	1	13.8	9.66	
Crawler crane		30	4.5	8	1	36	10.8	
Grout mixer#		-	-	-	-	-	-	
Grout pump#		-	-	-	-	-	-	
Air compressor#		-	-	-	-	-	-	
Drill rig, rotary type(diesel)		50	2.3	6	1	13.8	6.9	
Backhoe with hydraulic bro	eaker	30	3.2	8	1	25.6	7.68	
•		•				Total:	35.04	
Activity 1		Percentage of Usage Area to Works Area:				0.1%		
•					Percentage	e of Yearly Usage:	0.03%	

Activity 2 - Excavation(ID: 11110NF11320)
From: 1-May-14

From:	1-May-14	To:	31-Aug-14	Duration:		4	months		
Plant		Percentage	Percentage Plan Size						
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)		
Backhoe		70	3.2	8	1	25.6	17.92		
Dump Truck		30	2.4	10	1	24	7.2		
						Total:	25.12		
Activity 2			0.1%						
-					Percentage	e of Yearly Usage:	0.03%		

Duration:

Duration:

4

months

months

From:	1-Sep-14	To:	31-Jan-15	Duration:		5	months
Plant		Percentage	Area in term of				
		of Usage (%)	B (m)	B (m) L (m) No. of Ite		Area(m²)	Time of Usage (m ²)
Backhoe		30	3.2	8	1	25.6	7.68
Crawler crane		30	4.5	8	1	36	10.8
Bar bender and	cutter#	-	-	-	-	-	-
Concrete Mixer	Truck	50	2.4	10	2	48	24
Concrete Pump	Truck	50	2.4	10	2	48	24
Poker, vibrator,h	and-held#	-	-	-	-	-	-
			-			Total:	66.48
Activity 3			0.3%				
_					Percentage	of Yearly Usage:	0.10%

Area C4A Chatham Road North(OB2) to Slip Road (OB2A)

Activity 1 - Temporary Cofferdam NSL(ID: 11110NF10410) 1-Feb-14

Plant	Percentage		Area in term of			
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m ²)	Time of Usage (m ²)
Pipe Piling Rig	70	2.3	6	1	13.8	9.66
Crawler crane	30	4.5	8	1	36	10.8
Grout mixer#	-	-	-	-	-	-
Grout pump#	-	-	-	-	-	-
Air compressor#	-	-	-	-	-	-
Drill rig, rotary type(diesel)	50	2.3	6	1	13.8	6.9
Backhoe with hydraulic breaker	30	3.2	8	1	25.6	7.68
	<u> </u>				Total:	35.04
Activity 1		0.1%				
1				Percentage	e of Yearly Usage:	0.03%

30-Apr-14

Activity 2 - Excavation(ID: 11110NF11410)
From: 1-Jul-14

Plant	Percentage	Percentage Plan Size						
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)		
Backhoe	70	3.2	8	1	25.6	17.92		
Dump Truck	30	2.4	10	1	24	7.2		
			•	•	Total:	25.12		
Activity 2 Percentage of Usage Area to					ea to Works Area:	0.1%		
Percentage of Yearly Usage				0.03%				

31-Oct-14

To:

To:

Activity 3 - Concrete structures NSL(ID: 11110NF12410) 1-Nov-14

From:

Plant	Percentage		Area in term of			
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Backhoe	30	3.2	8	1	25.6	7.68
Crawler crane	30	4.5	8	1	36	10.8
Bar bender and cutter#	-	-	-	-	-	-
Concrete Mixer Truck	50	2.4	10	1	24	12
Concrete Pump Truck	50	2.4	10	1	24	12
Poker, vibrator,hand-held#	-	-	-	-	-	-
					Total:	42.48
Activity 3		0.2%				
-				Percentage	of Yearly Usage:	0.04%

31-Jan-15

Duration:

months

Area C6 Chatham Road North Overbridge(OB2A)

Activity 1 - Site cleareance and hoarding and utility diversion(ID: 11110VD05010)

From:	1-Feb-14	10:	28-Feb-14	Du	ration:	1	months	
Plant		Percentage		Plan Size				
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)	
Excavator		60	3.2	8	1	25.6	15.36	
Air compressor#		-	-	-	-	-	-	
Hand held breaker#		-	-	-	-	-	-	
Lorry with crane/grab		60	2.4	10	1	24	14.4	
Welder/generator#		-	-	-	-	-	-	
						Total:	29.76	
Activity 1			0.1%					
					Percentage	of Yearly Usage:	0.01%	

Activity 2 - Foundations for TB2 (Piling & Pier)(ID: 11110VD05010 to 11110VD05020)

Plant		Percentage		Plan Size		Area in term of
From:	1-Mar-14	То:	31-Aug-14	Duration:	6	months

Plant	Percentage		Plan Size			Area in term of
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Excavator	60	3.2	8	1	25.6	15.36
Piling, large diameterbored, grab and chisel	30	4.5	8	1	36	10.8
Pipe piling rig	30	2.3	6	1	13.8	4.14
Air compressor#	-	-	-	-	-	-
Lorry with crane/grab	60	2.4	10	1	24	14.4
Poker, vibrator, hand-held#	-	-	-	-	-	-
Concrete lorry mixer	30	2.4	10	2	48	14.4
		•			Total:	59.1
Activity 2		0.2%				
			0.11%			

Oi Sen Path Works

From:	1-Oct-14	To:	31-Jan-15	Du	ration:	4	months
r		_					_
Plant		Percentage		Plan Size			Area in term of
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Mini Piling Rig		70	2.3	6	1	13.8	9.66
Grout mixer#		-	-	-	-	-	-
Grout pump#		-	-	-	-	-	-
Air compressor#		-	-	-	-	-	-
Drill rig, rotary typ	pe(diesel)	50	2.3	6	1	13.8	6.9
Backhoe with hyd	draulic breaker	30	3.2	8	1	25.6	7.68
Mobile Crane		50	2.6	10	1	26	13
Bar Bender and	Cutter#	-	-	-	-	-	-
Concrete Mixer T	Truck	30	2.4	10	1	24	7.2
Concrete Pump	Truck	30	2.4	10	1	24	7.2
Poker, vibrator, h	hand-held#	-	-	-	-	-	-
						Total:	51.64
Activity 1			0.2%				
			0.06%				

Combined Yearly Percentage	1.0%
Yearly Percentage adopted in Dust model as the worst case	6.0%

Hung Hom Station, South Approach Tunnels (Source ID: H1)

Yearly Estimate - Oct 15 to Sep 16

Area H1

From

Total works area 1126 m^2

Temporary Cofferdam

 Activity 1 - Dwall construction(NSL) remaining (ID :11120NS41300)

 From
 1-Oct-15
 To
 18-0

From	1-Oct-15	То	18-Oct-15	Duration:		0.6	months	
Plant		Percentage		Plan Size				
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)	
Backhoe		30	3.2	8	2	51.2	15.36	
Bar Bender and (Cutter #	-	-	-	4	-	-	
Concrete mixer to	ruck	30	2.4	10	6	144	43.2	
concrete pump tr	uck	30	2.4	10	3	72	21.6	
Modified Rig		100	2.3	6	2	27.6	27.6	
Modified Crane #	!	-	-	-	1	-	-	
Bentonite Plant #		-	-	-	1	-	-	
Dump truck		50	2.4	10	2	48	24	
Grounting Machin	ne	30	2	3	2	12	3.6	
Pumping test #		-	-	-	1	-	-	
			135.36					
Activity 1		Percentage of Usage Area to Works Area:					12.0%	

Duration:

Percentage of Yearly Usage:

Percentage of Yearly Usage:

2.2

0.57%

months

3.26%

Excavation - Podium to NOV

Activity 1 - Excavation & Strutting to NSL roof (ID:11120NS42100)

15-Oct-15

Plant	Percentage		Plan Size		Area in term of			
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)		
Backhoe	100	3.2	8	4	102.4	102.4		
Dump truck	100	2.4	10	4	96	96		
Crane #	-	-	-	1	-	-		
					Total:	198.4		
Activity 1		Percentage of Usage Area to Works Area:						

21-Dec-15

To

Activity 2 - Excavation & Strutting to NSL base (ID :11120NS42200)

From	1-Jun-16	10	24-Aug-16 Duration: 2.8		2.8	months	
Plant		Percentage Plan Size					Area in term of
		of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Backhoe		100	3.2	8	4	102.4	102.4
Dump truck		100	2.4	10	4	96	96

Activity 2			i ercenta	ge or osage A	ieu to Works Area.	11.3/0
Activity 2			Porconta	no of Heano A	rea to Works Area:	17.9%
					Total:	201.39
Grouting pump #	-	-	-	1	-	-
Grouting mixer #	-	-	-	1	-	-
Piling rig	50	2.3	2.6	1	5.98	2.99
Crane #	-	-	-	1	-	-
Dump truck	100	2.4	10	4	96	96

Percentage of Yearly Usage: 4.10%

Structural works - Podium to NOV

Activity 1 - Concrete Structure NSL roof (ID :11120NS43100)

| From | 22-Dec-15 | T

From	22-Dec-15	То	2-Feb-16	o-16 Duration:		1.4	months
Plant		Percentage		Plan Size			Area in term of

i iaiit	i ercentage	i el centage						
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)		
Modified Crane #	-	-	-	2	-	-		
Bar bender and cutter #	-	-	-	4	-	-		
concrete mixer truck	30	2.4	10	4	96	28.8		
concrete poker vibrator #	-	-	-	4	-	-		
concrete pump truck	30	2.4	10	2	48	14.4		
backhoe	30	3.2	8	1	25.6	7.68		
dump truck	30	2.4	10	1	24	7.2		
					Total:	58.08		
Activity 1			Percent	age of Usage Are	ea to Works Area:	5.2%		
				Percentage	of Yearly Usage:	0.59%		

То

Activity 2 - Concrete support to CLP Tunnel (ID: 11120NS43200)

3-Feb-16

Plant	Percentage		Area in term of			
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Modified Crane #	-	-	-	1	-	-
Bar bender and cutter #	-	-	-	2	-	-
concrete mixer truck	30	2.4	10	4	96	28.8
concrete poker vibrator #	-	-	-	2	-	-
concrete pump truck	30	2.4	10	1	24	7.2
backhoe	30	3.2	8	1	25.6	7.68
dump truck	30	2.4	10	1	24	7.2
			-		Total:	50.88
Activity 2		4.5%				
				Percentage	of Yearly Usage:	1.38%

25-May-16

Duration:

Duration:

Percentage of Usage Area to Works Area:

Percentage of Yearly Usage:

months

months

15.5%

1.53%

3.7

Activity 3 - Concrete Structure NSL base & wall (ID :11120NS43300)

25-Aug-16

Plant	Percentage		Area in term of			
	of Usage (%)	B (m)	L (m)	No. of Item	Area(m²)	Time of Usage (m ²)
Modified Crane #	-	-	-	4	-	-
Bar bender and cutter #	-	-	-	8	-	-
concrete mixer truck	30	2.4	10	8	192	57.6
concrete poker vibrator #	-	-	-	8	-	-
concrete pump truck	30	2.4	10	4	96	28.8
backhoe	30	3.2	8	4	102.4	30.72
dump truck	30	2.4	10	8	192	57.6
		•	•		Total:	174 72

Combined Yearly Percentage	11.4%
Yearly Percentage adopted in Dust model as the worst case	15.0%

Notes:

Activity 3

From

No dust generated machine