

Appendix 4.4 - Active Works Area and TSP Emission Burden Calculation

Project	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m <sup>2</sup> /s)	Active Working Area (m <sup>2</sup> )	2016													
						1	2	3	4	5	6	7	8	9	10	11	12		
NCWBR RIW	New Clear Water Bay Road/Shun Lee Tsuen Road RIW																		
	*Earthworks	DEC-16	MAR-20	-	0														0
	Clear Water Bay Road/On Sau Road RIW																		
	*Earthworks	DEC-16	APR-20	-	0														0
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Wind Erosion (Non-Working Hours)			0.0000027		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Month				(kg/month)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Year				(tonne/year)														0.0

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- (3) Total Emission = Emission from Heavy Construction + Emission from Wind Erosion
- (4) Referring to Construction Programme as attached in Appendix 2.1, only mobilization works would be conducted at New Clear Water Bay Road/Shun Lee Tsuen Road RIW and Clear Water Bay Road/On Sau Road RIW works sites, therefore, dust impact from the work sites in December 2016 would be minimal. The physical construction works would start from Jan 2017.

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						1	2	3	4	5	6	7	8	9	10	11	12				
NCWBR RIW	New Clear Water Bay Road/Shun Lee Tsuen Road RIW																				
	*Earthworks	DEC-16	MAR-20	-	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	
	Clear Water Bay Road/On Sau Road RIW																				
	*Earthworks	DEC-16	APR-20	-	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	1,375	
TSP Emission Calculation	Heavy Construction (Working Hours Only)				0.00020756	Total Area (m <sup>2</sup> )	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900
	Wind Erosion (Non-Working Hours)				0.0000027		2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900	2900
	Total TSP Emission from Heavy Construction (Working Hours Only)					(kg/month)	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1
	Total TSP Emission from Wind Erosion (Non-Working Hours)					(kg/month)	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
	Total TSP Emission in one Month					(kg/month)	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6
	Total TSP Emission in one Year					(tonne/year)	9.5														

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- (3) Total Emission = Emission from Heavy Construction + Emission from Wind Erosion
- (4) Referring to Construction Programme as attached in Appendix 2.1, only mobilization works would be conducted at New Clear Water Bay Road/Shun Lee Tsuen Road RIW and Clear Water Bay Road/On Sau Road RIW works sites, therefore, dust impact from the work sites in December 2016 would be minimal. The physical construction works would start from Jan 2017.

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Project	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m <sup>2</sup> /s)	Active Working Area (m <sup>2</sup> )	2018													
						1	2	3	4	5	6	7	8	9	10	11	12		
NCWBR RIW	New Clear Water Bay Road/Shun Lee Tsuen Road RIW																		
	*Earthworks	DEC-16	MAR-20	-	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880
	Clear Water Bay Road/On Sau Road RIW																		
	*Earthworks	DEC-16	APR-20	-	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580
	Wind Erosion (Non-Working Hours)			0.0000027		1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0	425.0
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	Total TSP Emission in one Month				(kg/month)	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7	430.7
	Total TSP Emission in one Year				(tonne/year)	5.2													

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- (3) Total Emission = Emission from Heavy Construction + Emission from Wind Erosion
- (4) Referring to Construction Programme as attached in Appendix 2.1, only mobilization works would be conducted at New Clear Water Bay Road/Shun Lee Tsuen Road RIW and Clear Water Bay Road/On Sau Road RIW works sites, therefore, dust impact from the work sites in December 2016 would be minimal. The physical construction works would start from Jan 2017.

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Project	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m <sup>2</sup> /s)	Active Working Area (m <sup>2</sup> )	2019											
						1	2	3	4	5	6	7	8	9	10	11	12
NCWBR RIW	New Clear Water Bay Road/Shun Lee Tsuen Road RIW																
	*Earthworks	DEC-16	MAR-20	-	265	265	265	265	265	265	265	265	265	265	265	265	265
	Clear Water Bay Road/On Sau Road RIW																
	*Earthworks	DEC-16	APR-20	-	850	850	850	850	850	850	850	850	850	850	850	850	850
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115
	Wind Erosion (Non-Working Hours)			0.0000027		1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	Total TSP Emission in one Month				(kg/month)	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
	Total TSP Emission in one Year				(tonne/year)	3.6											

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- (3) Total Emission = Emission from Heavy Construction + Emission from Wind Erosion
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						1	2	3	4	5	6	7	8	9	10	11	12		
NCWBR RIW	New Clear Water Bay Road/Shun Lee Tsuen Road RIW																		
	*Earthworks	DEC-16	MAR-20	-	65	65	65												
	Clear Water Bay Road/On Sau Road RIW																		
	*Earthworks	DEC-16	APR-20	-	7	7	7	7											
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	72	72	72	7	0	0	0	0	0	0	0	0	0	0
	Wind Erosion (Non-Working Hours)			0.0000027		72	72	72	7	0	0	0	0	0	0	0	0	0	0
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	19.4	19.4	19.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Month				(kg/month)	19.6	19.6	19.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Year				(tonne/year)					0.1									

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
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						1	2	3	4	5	6	7	8	9	10	11	12	
LTR RIW	Lin Tak Road/Sau Mau Ping Road RIW																	
	*Earthworks	DEC-16	JAN-22	-	0													0
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	0	0	0	0	0	0	0	0	0	0	0	0	0
	Wind Erosion (Non-Working Hours)			0.0000027		0	0	0	0	0	0	0	0	0	0	0	0	0
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Month				(kg/month)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Year				(tonne/year)	0.0												

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mlh)
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						1	2	3	4	5	6	7	8	9	10	11	12
LTR RIW	Lin Tak Road/Sau Mau Ping Road RIW																
	*Earthworks	DEC-16	JAN-22	-	950	950	950	950	950	950	950	950	950	950	950	950	950
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	950	950	950	950	950	950	950	950	950	950	950	950
	Wind Erosion (Non-Working Hours)			0.0000027		950	950	950	950	950	950	950	950	950	950	950	950
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Total TSP Emission in one Month				(kg/month)	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0
	Total TSP Emission in one Year				(tonne/year)	3.1											

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- (3) Total Emission = Emission from Heavy Construction + Emission from Wind Erosion
- (4) Referring to Construction Programme as attached in Appendix 2.1, only mobilization works would be conducted at Lin Tak Road/Sau Mau Ping Road RIW works site, therefore, dust impact from the work site in December 2016 would be minimal. The physical construction works would start from Jan 2017.

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						1	2	3	4	5	6	7	8	9	10	11	12				
LTR RIW	Lin Tak Road/Sau Mau Ping Road RIW																				
	*Earthworks	DEC-16	JAN-22	-	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	
	Wind Erosion (Non-Working Hours)			0.0000027		1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	Total TSP Emission in one Month					(kg/month)	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4
	Total TSP Emission in one Year				(tonne/year)	4.3															

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mlh)
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						1	2	3	4	5	6	7	8	9	10	11	12			
LTR RIW	Lin Tak Road/Sau Mau Ping Road RIW																			
	*Earthworks	DEC-16	JAN-22	-	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480
	Wind Erosion (Non-Working Hours)			0.0000027		480	480	480	480	480	480	480	480	480	480	480	480	480	480	480
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1	129.1
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Total TSP Emission in one Month				(kg/month)	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
	Total TSP Emission in one Year				(tonne/year)	1.6														

Note:

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- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mlh)
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						1	2	3	4	5	6	7	8	9	10	11	12		
LTR RIW	Lin Tak Road/Sau Mau Ping Road RIW																		
	*Earthworks	DEC-16	JAN-22	-	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	600	600	600	600	600	600	600	600	600	600	600	600	600	600
	Wind Erosion (Non-Working Hours)			0.0000027		600	600	600	600	600	600	600	600	600	600	600	600	600	600
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	Total TSP Emission in one Month				(kg/month)	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6	163.6
	Total TSP Emission in one Year				(tonne/year)	2.0													

Note:

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- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
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						1	2	3	4	5	6	7	8	9	10	11	12			
LTR RIW	Lin Tak Road/Sau Mau Ping Road RIW																			
	*Earthworks	DEC-16	JAN-22	-	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	Wind Erosion (Non-Working Hours)			0.0000027		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Total TSP Emission in one Month				(kg/month)	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3
	Total TSP Emission in one Year				(tonne/year)	1.6														

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- (3) Total Emission = Emission from Heavy Construction + Emission from Wind Erosion
- (4) Referring to Construction Programme as attached in Appendix 2.1, only mobilization works would be conducted at Lin Tak Road/Sau Mau Ping Road RIW works site, therefore, dust impact from the work site in December 2016 would be minimal. The physical construction works would start from Jan 2017.

Appendix 4.4 - Active Works Area and TSP Emission Burden Calculation

Project	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m <sup>2</sup> /s)	Active Working Area (m <sup>2</sup> )	2022											
						1	2	3	4	5	6	7	8	9	10	11	12
LTR RIW	Lin Tak Road/Sau Mau Ping Road RIW																
	*Earthworks	DEC-16	JAN-22	-	500	500											
TSP Emission Calculation	Heavy Construction (Working Hours Only)			0.00020756	Total Area (m <sup>2</sup> )	500	0	0	0	0	0	0	0	0	0	0	0
	Wind Erosion (Non-Working Hours)			0.0000027		500	0	0	0	0	0	0	0	0	0	0	0
	Total TSP Emission from Heavy Construction (Working Hours Only)				(kg/month)	134.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission from Wind Erosion (Non-Working Hours)				(kg/month)	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Month				(kg/month)	136.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one Year				(tonne/year)	0.1											

Note:

- (1) Detail breakdown of construction activities are represented by an asterisk (\*).
- (2) Emission from source type (kg) = Area (m<sup>2</sup>) x Emission Factor of source type (g /m<sup>2</sup>/s) x 1/1000 (kg/g) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mlh)
- (3) Total Emission = Emission from Heavy Construction + Emission from Wind Erosion
- (4) Referring to Construction Programme as attached in Appendix 2.1, only mobilization works would be conducted at Lin Tak Road/Sau Mau Ping Road RIW works site, therefore, dust impact from the work site in December 2016 would be minimal. The physical construction works would start from Jan 2017.