

**Appendix 3.8**  
**Calculation of**  
**Vehicle Emission Factors**





Appendix 3.8b Detailed Calculation of Ratio of Total Pollutant Emissions to Corresponding Averaged AQO

Vehicle Classes	Total Daily NO <sub>x</sub> Emissions (ton/day) by using Peak Hour Flow Speed		Total Daily CO Emissions (ton/day) by using Peak Hour Flow Speed	
	Other Roads	Trunk Roads	Other Roads	Trunk Roads
PC&LGV	0.028194	0.021426	0.739137	0.545933
PC&LGV <2.5t	0.003842	0.002718	0.004861	0.002864
LGV2.5-3.5t	0.002544	0.001802	0.004051	0.002389
PLB	0.001775	0.000556	0.164136	0.049829
LGV>3.5t	0.022210	0.016908	0.006222	0.003974
HGV<15t	0.059336	0.030377	0.015229	0.006311
HGV>15t	0.002035	0.001625	0.000757	0.000455
FBDD	0.058263	0.019886	0.012804	0.003833
MC	0.018904	0.016075	0.618851	0.518906
Sub-total(MC)	<b>0.197103</b>	<b>0.111373</b>	<b>1.566049</b>	<b>1.134493</b>
Taxi	0.031645	0.021206	0.652932	0.425286
PrLB<3.5t	0.000000	0.000000	0.000000	0.000000
PrLB>3.5t	0.002543	0.001349	0.007433	0.003603
NFB<6.4t	0.000000	0.000000	0.000000	0.000000
NFB 6.4-15t	0.103783	0.049976	0.026164	0.010211
NFB>15t	0.000007	0.000017	0.000003	0.000004
FBSD	0.006673	0.001686	0.000955	0.000224
Sub-total(TAXI)	<b>0.144651</b>	<b>0.074233</b>	<b>0.687487</b>	<b>0.439329</b>
Sub Total Emissions(tons/day)	<b>0.341754</b>	<b>0.18561</b>	<b>2.253536</b>	<b>1.573822</b>
Sub Total Emissions(g/s)	3.955486111	2.148217593	26.08259259	18.21553241
Total Emissions(g/s)	1.2207(NO <sub>2</sub> )		44.2981	
1-hour Averaged AQO	300		30000	
Ratio(E/AQO)=	0.0041		0.0015	