

Status of ambient air quality during “BUS DAY” on 7th of July 2010 observed by BMTC Bangalore monitored using Mobile Laboratory

Karnataka State Pollution Control Board has conducted ambient air quality monitoring at Junction of Kediranhally Cross (Kanakapura Ring Road) Bangalore on the occasion of BUS DAY on 7th of July - 2010 observed by Bangalore Metropolitan Corporation (BMTC) Central Office Bangalore. To check the impact of BUS DAY on air quality monitoring was conducted before and after the BUS DAY. The data is as follows.

Ambient air quality status at Junction of Kediranhally Cross (Kanakapura Ring Road) Bangalore measured by using Mobile Laboratory of KSPCB.

Sl No	Parameter	Standards	Before BUS DAY (6.7.2010)	During BUS DAY (7.7.2010)	% Decreased	After BUS DAY (8.7.2010)	% Increased
1	SO ₂ µg/m ³	80.0	9.42	8.59	8.8 %	10.69	13.5 %
2	NO _x µg/m ³	80.0	36.9	35.81	3.0 %	39.5	7.1 %
3	RSPM µg/m ³	100.0	132.0	112.0	15.2 %	139.0	5.3 %
4	CO mg/m ³	2.0	1.45	1.34	7.6 %	1.46	0.7 %
5	O ₃ µg/m ³	100.0	5.49	5.18	5.6 %	5.6	2.0 %

Note: Parameters monitored: SO₂: Sulphur dioxide, **NO_x :** Oxides of nitrogen, **RSPM:** (Respirable suspended particulate matter), **CO:** Carbon monoxide and **O₃ :** (Ozone)

The measured values of RSPM level has exceeded the national ambient air quality standards on 6th, 7th and 8th July -2010. The values of NO_x, SO₂, CO, and O₃ have not exceeded the national ambient air quality standards. However, the measured values of SO₂, NO_x, RSPM, CO and O₃ have decreased by **8.8, 3.0 15.2, 7.6 & 5.6 %** respectively when compare to before Bus day on **(6.7.2010)**.

After BUS DAY **(8.7..2010)** measured values like SO₂, NO_x, RSPM, and O₃ levels are increased by 13.5, 7.1, 5.3, 0.7 & 2.0 % respectively when compare to before BUS DAY **(6.7.2010) .**

Observation: On 8.7.2010 the values are increased may be due to weather condition and vehicles population may be more on 8.7.2010.