Status of ambient air quality during "BUS DAY" on 4th June 2010 observed by BMTC Bangalore monitored using Mobile Laboratory

Karnataka State Pollution Control Board has conducted ambient air quality monitoring at Jallahalli Cross (Tumkur Road) Bangalore on the occasion of BUS DAY on 4th June- 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.

Table-1. Ambient air quality status at Jallahalli Cross (Tumkur Road) Bangalore measured by using Mobile Laboratory of KSPCB

Sl No	Parameter	Standards	Before BUS DAY (3.6.2010)	During BUS DAY (4.6.2010)	% Decreased	After BUS DAY (7.6.2010)	% Increased
1	SO2 µg/m3	80.0	10.2	9.3	8.6 %	11.6	13.7 %
2	NOx µg/m3	80.0	64.7	55.8	13.8 %	93.3	44.2 %
3	RSPM µg/m3	100.0	254.0	220.0	13.4 %	273.0	7.5 %
4	CO mg/m3	2.0	1.4	1.3	7.1 %	1.4	0 %
5	O3 µg/m3	100.0	6.0	5.0	16.6 %	7.8	30 %

Note: Parameters monitored: SO_2: Sulphur dioxide, **NOx** – Oxides of nitrogen, **RSPM**- (Respirable suspended particulate matter), **CO**- Carbon monoxide and **O_3** (Ozone)

The measured values of RSPM levels have exceeded the national ambient air quality standards on 3th, 4th and 7th June -2010. The values of NOx, SO_2, CO, and O_3 have not exceeded the national ambient air quality standards. However, the measured values of SO_2, NOx, RSPM, CO and O_3 have decreased by **8.55, 13.83, 13.38, 7.14 & 17 %** respectively when compare to before Bus day on **(3.6.2010).**

After BUS DAY **(7.6.2010)** measured values like SO_2, NOx, RSPM, and O_3 levels are increased by 13.7, 44.2, 7.5 & 30.0 % respectively when compare to before BUS DAY **(3.6.2010) .**

Observation: On 3rd and 4th June 2010, it was observed that vehicles moving slowly on single line of both sides (out of four lane), and on 7th June 2010 it was observed that all the four lanes were opened and operating with incomplete (without asphalting) road work, vehicular movement was faster and lot of dust particles is observed.