

## Status of Ambient Air Quality in Bangalore City

The Karnataka State Pollution Control Board is monitoring ambient air quality (AAQ) of Bangalore city at 15 locations as per guidelines of the Central Pollution Control Board covering industrial, residential, rural and other areas under National Ambient Air Quality Programme (NAMP).

At 13 locations the ambient air quality monitoring is being carried out regularly twice a week, 24 hours a day using manual equipments for parameters such as PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>2</sub> and at 2 locations monitoring is carried out round the clock using Continuous Ambient Air Quality Monitoring Stations (CAAQMS) for PM<sub>10</sub> (RSPM), SO<sub>2</sub>, NO<sub>2</sub> and CO. The data obtained from CAAQMS is being uploaded online to CPCB server and also displayed at the respective monitoring locations. The data obtained from both manual stations and CAAQMS is compiled and shared with the concerned departments viz a) Department of Ecology and Environment b) Bruhath Bangalore Mahanagara Palike c) Transport Department d) Police Department on regular basis to take appropriate action to reduce air pollution in Bangalore City. The locations of Ambient Air Quality Monitoring are given below;

Sl. No.	Location of the Station	Category of Area	Type of Station
1	Export Promotion Centre, White Field Industrial Area (Graphite India Ltd.,)	Industrial	Manual
2	KHB Industrial Area, Yelahanka.	Industrial	Manual
3	Peenya Industrial Area, (Gymkhana)	Industrial	Manual
4	Peenya Industrial Area, (Regional Office )	Industrial	Manual
5	AMCO Batteries, Mysore Road.	Other areas (Commercial)	Manual
6	Yeshwantha Police Station	Other Areas (commercial)	Manual
7	Central Silk Board, Hosur Road	Other Areas (commercial)	Manual
8	DTDC Office, Victoria Road	Other Areas	Manual
9	Kazisummanahalli, White Field Road(Background Station)	Rural	Manual
10	Banasavadi Police Station	Other Areas (Residential)	Manual
11	TERI Office, Domlur	Residential	Manual
12	Victoria Hospital, Bangalore	Other Areas	Manual

13	Indira Gandhi Child Care Centre Centre, NIMANHS	Other Areas	Manual
14	City Railway Station, Bangalore	Other Areas	Continuous
15	KSPCB Regional Office Complex, S.G.Halli, Shivanagar	Residential	Continuous

**Annual average values of air pollutants at 12 locations in Bangalore City during the year- 2015-16**

Sl. No	Name of the Station	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	RSPM µg/m <sup>3</sup>	RSPM exceeded to the National Standards
1	Export promotional park ITPL, White field, premises of Graphite India Ltd, Bangalore	3.8	21.1	189.0	<b>215 %</b>
2	K.H.B Industrial Area,	3.6	15.5	109.0	<b>82 %</b>
3	Peenya Industrial Area	3.9	20.2	127.0	<b>112 %</b>
4	Yeshwanthpura Police	3.6	22.6	105.0	<b>75 %</b>
5	AMCO Batteries, Mysore	4.0	20.2	119.0	<b>98 %</b>
6	Central Silk Board , Hosur	3.9	21.1	165.0	<b>175 %</b>
7	DTDC House , Victoria	3.7	17.5	135.0	<b>125 %</b>
8	Kajisonnenahalli ,	3.6	12.6	75.0	<b>25 %</b>
9	CAAQMS at City Railway	9.0	45.6	104.0	<b>73 %</b>
10	CAAQMS at S,G,Halli	3.7	25.7	72.0	<b>20 %</b>
11	Victoria Hospital	4.0	23.0	99.5	<b>66 %</b>
12	Indira Gandhi Children Care Institute (NIMANHS)	3.8	17.5	113.0	<b>88 %</b>
<b>Standards/National limits (µg/m<sup>3</sup>)</b>		<b>50.0</b>	<b>40.0</b>	<b>60.0</b>	

**Note:**

1. The RSPM values have exceeded the National AAQ Standards (60.0 µg/M<sup>3</sup>) (**Annexure-I**) at 12 locations in the range of 20 to 215 % during the period 2015-16.
2. Except NO<sub>2</sub> at City Railway Station, the concentration of SO<sub>2</sub> and NO<sub>2</sub> are within the National Standards at all the location during the period 2015-16.

## Noise Level Monitoring in Bangalore City:

The Board has established ten continuous ambient noise monitoring stations in Bangalore city on cost sharing on 50:50 basis with CPCB under National Ambient Noise Programme in two phases. All ten stations are installed as per the CPCB guidelines covering Industrial , Commercial , Residential and Silence Zone, the details of the stations and locations are as follows:.

### Noise level data measured at ten Continuous Noise Monitoring Stations in Bangalore city for the year 2015-16

Sl. No	Name of the Station	Limit dB(A) Leq	Day Time			% Increase	Limits dB(A) Leq	Night Time			% Increase
			Leq	L min	L max			Leq	L min	Lmax	
1	Peenya Industrial Area	75	<b>58.8</b>	50.0	71.9	WITHIN LIMIT	70	<b>55.6</b>	49.9	73.1	WITHIN LIMIT
2	White field Industrial Area	75	<b>65.9</b>	58.4	83.9	WITHIN LIMIT	70	<b>60.6</b>	50.7	74.1	WITHIN LIMIT
3	ParisaraBhavan , Church Street	65	<b>66.2</b>	54.7	76.7	<b>1.9 %</b>	55	<b>59.1</b>	49.2	72.9	<b>7.6 %</b>
4	Yeshwanthpur Police Station	65	<b>71.3</b>	64.7	82.4	<b>9.7 %</b>	55	<b>63.4</b>	54.4	73.8	<b>15.3 %</b>
5	Marathahalli	65	<b>58.2</b>	52.8	71.7	WITHIN LIMIT	55	<b>56.7</b>	52.6	66.6	<b>3.1 %</b>
6	Nisarga Bhavan KSPCB Office	55	<b>58.2</b>	47.3	81.3	<b>5.8 %</b>	45	<b>49.7</b>	41.2	71.4	<b>10.4 %</b>
7	TERIOffice, Domlur	55	<b>63.2</b>	48	81.6	<b>14.9 %</b>	45	<b>54.8</b>	38.9	71.9	<b>21.7 %</b>
8	BTM Layout	55	<b>65.8</b>	57.0	86.4	<b>19.6 %</b>	45	<b>58.9</b>	46.9	72.4	<b>30.8 %</b>
9	NIMHANS IGH Care	50	<b>60.9</b>	48.8	87.2	<b>21.8 %</b>	40	<b>54.4</b>	40.8	78.8	<b>36.0 %</b>
10	RVCE, Mysore Road	50	<b>59.7</b>	53.2	78.1	<b>19.4%</b>	40	<b>53.9</b>	47.6	67.6	<b>34.8 %</b>

#### Note:

- Day time shall mean from 6.00 AM to 10.00 PM
- Night time shall mean from 10.00PM to 6.00 AM
- Silence zone is an area comprising not less than 100 meters around Hospitals, Educational Institutions, Courts, Religious places or any other which is declared as such by the competent authority.
- dB(A) Leq denotes the time weighted average of the level of sound decibels on scale “A” which is relatable to human hearing.
- “A” decibel is a unit in which noise is measured.
- “A” in dB(A) Leq, denotes the frequency weighting in the measurements of noise and corresponds to frequency response characteristics of the human ear.
- “Leq” it is energy mean of the noise level over a specific period.













