



# KARNATAKA STATE POLLUTION CONTROL BOARD

No.49, Parisara Bhavan, Church Street, Bengaluru-560 001.

## *Air Quality Monitoring Cell*

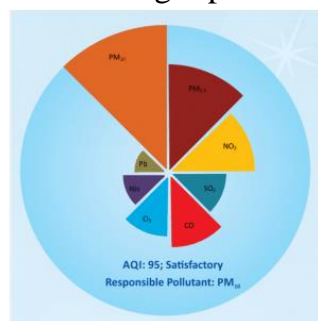
Air Quality Index of Manual Ambient Air Quality Monitoring Stations in Karnataka other than Bengaluru city for the month of February-2023 and March 2023

### Air Quality Index-(AQI)

Air Quality Index is a tool for effective communication of air quality status to people in terms, which are easy to understand. It transforms complex air quality data of various pollutants into a single number (index value), nomenclature and colour.

There are six AQI categories, namely Good, Satisfactory, Moderate, Poor, Very Poor, and Severe. Each of these categories is decided based on ambient concentration values of air pollutants and their likely health impacts (known as health breakpoints). AQ sub-index and health breakpoints are evolved for eight pollutants (PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub>, SO<sub>2</sub>, CO, O<sub>3</sub>, NH<sub>3</sub>, and Pb) for which short-term (upto 24-hours) National Ambient Air Quality Standards are prescribed.

Based on the measured ambient concentrations of a pollutant, sub-index is calculated, which is a linear function of concentration (e.g. the sub-index for PM<sub>2.5</sub> will be 51 at concentration 31 µg/m<sup>3</sup>, 100 at concentration 60 µg/m<sup>3</sup>, and 75 at concentration of 45(µg/m<sup>3</sup>). The worst sub-index determines the overall AQI. AQI categories and health breakpoints for the eight pollutants are as follow:



The Karnataka State Pollution Control Board has installed 22 Manual Air Quality Monitoring Stations under National Air Quality Monitoring Programme(NAMP) covering Residential, Commercial, Mixed and Silence Zones. As per the Central Pollution Control Board Guidelines, ambient air quality monitoring is being carried out manually twice a week, 24 hours a day for the Primary and secondary pollutants as well as Meteorological parameters covering 104 measurements in a year per station.

**Air Quality Index (AQI) of Manual Ambient Air Quality Monitoring Stations in Karnataka other than Bengaluru City for the month of February-2023**

Sl No	Name of the Monitoring Stations	Index Value	Category	Prominent Pollutant
1	KSRTC, Building, K. R. Circle, Mysuru	55	Satisfactory	PM <sub>10</sub>
2	KSPCB Office Premises, Mysuru	56	Satisfactory	PM <sub>10</sub>
3	KSPCB Office Premises, Mandya	41	Good	PM <sub>10</sub>
4	KSPCB Office Premises, Kodagu	*	*	*
5	KSPCB Office Premises, C.R.Nagara	47	Good	PM <sub>10</sub>
6	KSPCB Office Premises, Hassan	60	Satisfactory	PM <sub>10</sub>
7	Baikampady Indl. Area, Mangaluru	58	Satisfactory	PM <sub>10</sub>
8	Gokul Road. Opp. to New Bustand, Hubballi	84	Satisfactory	PM <sub>10</sub>
9	Lakkamanahalli Indl Area, Dharwad	69	Satisfactory	PM <sub>10</sub>
10	Karwar Port, Director's Office, Karwar	*	*	*
11	Traffic Police Station, Davangere	125	Moderate	PM <sub>10</sub>
12	KSPCB Office Premises, Davangere	117	Moderate	PM <sub>10</sub>
13	HPF Intake Well, Kumarapatnam,	50	Good	PM <sub>10</sub>
14	Vishveshwariah Iron & Steel Ltd., Bhadravathi	11	Good	PM <sub>10</sub>
15	KSPCB Office Premises, Chitradurga	92	Satisfactory	PM <sub>10</sub>
16	KSPCB Office Premises, Belagavi	142	Moderate	PM <sub>10</sub>
17	KSPCB Office Premises, Vijyapura	71	Satisfactory	PM <sub>10</sub>
18	KSPCB Office Premises, Bagalkote	58	Satisfactory	PM <sub>10</sub>
19	KSPCB Office Premises, Ballari	79	Satisfactory	PM <sub>10</sub>
20	KSPCB Office Premises, Kalburagi	92	Satisfactory	PM <sub>10</sub>
21	KSPCB Office Premises,Raichur	110	Moderate	PM <sub>10</sub>

22	KSPCB Office Premises, Bidar	*	*	*
-* - Monitoring not done				

<b>Air Quality Index (AQI) of Manual Ambient Air Quality Monitoring Stations in Karnataka other than Bengaluru City for the month of March-2023</b>				
<b>Sl No</b>	<b>Name of the Monitoring Stations</b>	<b>Index Value</b>	<b>Category</b>	<b>Prominent Pollutant</b>
1	KSRTC, Building, K. R. Circle, Mysuru	58	Satisfactory	PM <sub>10</sub>
2	KSPCB Office Premises, Mysuru	55	Satisfactory	PM <sub>10</sub>
3	KSPCB Office Premises, Mandya	40	Good	PM <sub>10</sub>
4	KSPCB Office Premises, Kodagu	*	*	*
5	KSPCB Office Premises, C.R.Nagara	45	Good	PM <sub>10</sub>
6	KSPCB Office Premises, Hassan	73	Satisfactory	PM <sub>10</sub>
7	Baikampady Indl. Area, Mangaluru	51	Satisfactory	PM <sub>10</sub>
8	Gokul Road. Opp. to New Bustand, Hubballi	87	Satisfactory	PM <sub>10</sub>
9	Lakkamanahalli Indl Area, Dharwad	72	Satisfactory	PM <sub>10</sub>
10	Karwar Port, Director's Office, Karwar	*	*	*
11	Traffic Police Station, Davangere	105	Moderate	PM <sub>10</sub>
12	KSPCB Office Premises, Davangere	123	Moderate	PM <sub>10</sub>
13	HPF Intake Well, Kumarapatnam,	53	Satisfactory	PM <sub>10</sub>
14	Vishveshwariah Iron & Steel Ltd., Bhadravathi	11	Good	PM <sub>10</sub>
15	KSPCB Office Premises, Chitradurga	58	Satisfactory	PM <sub>10</sub>
16	KSPCB Office Premises, Belagavi	107	Moderate	PM <sub>10</sub>
17	KSPCB Office Premises, Vijyapura	46	Good	PM <sub>10</sub>

18	KSPCB Office Premises, Bagalkote	58	Satisfactory	PM <sub>10</sub>
19	KSPCB Office Premises, Ballari	81	Satisfactory	PM <sub>10</sub>
20	KSPCB Office Premises, Kalburagi	79	Satisfactory	PM <sub>10</sub>
21	KSPCB Office Premises, Raichur	93	Satisfactory	PM <sub>10</sub>
22	KSPCB Office Premises, Bidar	111	Moderate	PM <sub>10</sub>
-* - Monitoring not done				

Category (Range)	Possible Health Impacts	Category (Range)	Possible Health Impacts
Good (0–50)	Minimal Impact	Poor (201–300)	Breathing discomfort to people on prolonged exposure
Satisfactory (51–100)	Minor breathing discomfort to sensitive people	Very Poor (301–400)	Respiratory illness to the people on prolonged exposure
Moderate (101–200)	Breathing discomfort to the people with lung, Heart disease, children and older adults	Severe (>401)	Respiratory effects even on healthy people