



## KARNATAKA STATE POLLUTION CONTROL BOARD

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

### *Air Quality Monitoring Cell*

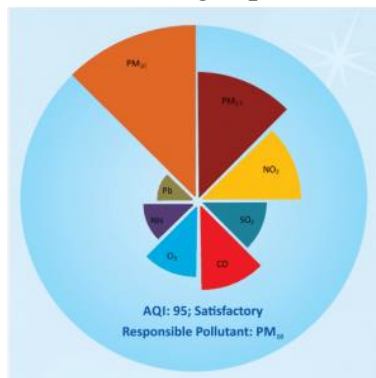
Air Quality Index of Manual Ambient Air Quality Monitoring Stations in Karnataka other than Bengaluru city for the month of –November-2022 to December-2022

#### 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.

**The Air Quality monitored during the month of November-2022 is as shown below:**

<b>Air Quality Index (AQI) of Manual Ambient Air Quality Monitoring Stations in Karnataka other than Bengaluru City for the month of November-2022</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	47	Good	PM <sub>10</sub>
2	KSPCB Office Premises, Mysuru	43	Good	PM <sub>10</sub>
3	KSPCB Office Premises, Mandya	40	Good	PM <sub>10</sub>
4	KSPCB Office Premises, Kodagu	31	Good	PM <sub>10</sub>
5	KSPCB Office Premises, C.R.Nagara	44	Good	PM <sub>10</sub>
6	KSPCB Office Premises, Hassan	53	Satisfactory	PM <sub>10</sub>
7	Baikampady Indl. Area, Mangaluru	46	Good	PM <sub>10</sub>
8	Gokul Road. Opp. to New Bustand, Hubballi	75	Satisfactory	PM <sub>10</sub>
9	Lakkamanahalli Indl Area, Dharwad	58	Satisfactory	PM <sub>10</sub>
10	Karwar Port, Director's Office, Karwar	*	*	*
11	Traffic Police Station, Davangere	86	Satisfactory	PM <sub>10</sub>
12	KSPCB Office Premises, Davangere	85	Satisfactory	PM <sub>10</sub>
13	HPF Intake Well, Kumarapatnam,	37	Good	PM <sub>10</sub>
14	Vishveshwariah Iron & Steel Ltd., Bhadravathi	14	Good	PM <sub>10</sub>
15	KSPCB Office Premises, Chitradurga	54	Satisfactory	PM <sub>10</sub>
16	KSPCB Office Premises, Belagavi	87	Satisfactory	PM <sub>10</sub>
17	KSPCB Office Premises, Vijyapura	46	Good	PM <sub>10</sub>
18	KSPCB Office Premises, Bagalkote	52	Satisfactory	PM <sub>10</sub>
19	KSPCB Office Premises, Ballari	67	Satisfactory	PM <sub>10</sub>
20	KSPCB Office Premises, Kalburagi	106	Moderate	PM <sub>2.5</sub>

21	KSPCB Office Premises, Raichur	*	*	*
22	KSPCB Office Premises, Bidar	68	Satisfactory	PM <sub>10</sub>
-* - Monitoring not done				

**The Air Quality monitored during the month of December-2022 is as shown below:**

<b>Air Quality Index (AQI) of Manual Ambient Air Quality Monitoring Stations in Karnataka other than Bengaluru City for the month of December-2022</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	47	Good	PM <sub>10</sub>
2	KSPCB Office Premises, Mysuru	44	Good	PM <sub>10</sub>
3	KSPCB Office Premises, Mandya	41	Good	PM <sub>10</sub>
4	KSPCB Office Premises, Kodagu	29	Good	PM <sub>10</sub>
5	KSPCB Office Premises, C.R.Nagara	43	Good	PM <sub>10</sub>
6	KSPCB Office Premises, Hassan	48	Good	PM <sub>10</sub>
7	Baikampady Indl. Area, Mangaluru	54	Satisfactory	PM <sub>10</sub>
8	Gokul Road. Opp. to New Bustand, Hubballi	79	Satisfactory	PM <sub>10</sub>
9	Lakkamanahalli Indl Area, Dharwad	63	Satisfactory	PM <sub>10</sub>
10	Karwar Port, Director's Office, Karwar	*	*	*
11	Traffic Police Station, Davangere	93	Satisfactory	PM <sub>10</sub>
12	KSPCB Office Premises, Davangere	86	Satisfactory	PM <sub>10</sub>
13	HPF Intake Well, Kumarapatnam,	39	Good	PM <sub>10</sub>
14	Vishveshwariah Iron & Steel Ltd., Bhadravathi	13	Good	PM <sub>10</sub>
15	KSPCB Office Premises, Chitradurga	54	Satisfactory	PM <sub>10</sub>
16	KSPCB Office Premises, Belagavi	54	Satisfactory	PM <sub>10</sub>
17	KSPCB Office Premises, Vijyapura	61	Satisfactory	PM <sub>10</sub>

18	KSPCB Office Premises, Bagalkote	67	Satisfactory	PM <sub>10</sub>
19	KSPCB Office Premises, Ballari	73	Satisfactory	PM <sub>10</sub>
20	KSPCB Office Premises, Kalburagi	109	Moderate	PM <sub>10</sub>
21	KSPCB Office Premises, Raichur	61	Satisfactory	PM <sub>10</sub>
22	KSPCB Office Premises, Bidar	*	*	*
-* - 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

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