



KARNATAKA STATE POLLUTION CONTROL BOARD

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

Air Quality Monitoring Cell

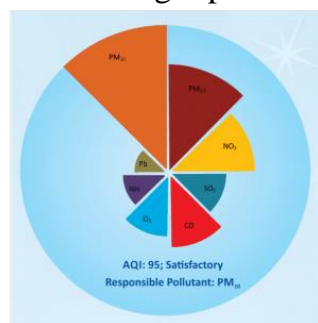
Air Quality Index of Manual Ambient Air Quality Monitoring Stations in Karnataka other than Bengaluru city for the month of **January-2023**

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 (PM₁₀, PM_{2.5}, NO₂, SO₂, CO, O₃, NH₃, 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_{2.5} will be 51 at concentration 31 µg/m³, 100 at concentration 60 µg/m³, and 75 at concentration of 45(µg/m³). 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 January-2023				
Sl No	Name of the Monitoring Stations	Index Value	Category	Prominent Pollutant
1	KSRTC, Building, K. R. Circle, Mysuru	51	Satisfactory	PM ₁₀
2	KSPCB Office Premises, Mysuru	52	Satisfactory	PM ₁₀
3	KSPCB Office Premises, Mandya	31	Good	PM ₁₀
4	KSPCB Office Premises, Kodagu	21	Good	PM ₁₀
5	KSPCB Office Premises, C.R.Nagara	43	Good	PM ₁₀
6	KSPCB Office Premises, Hassan	60	Satisfactory	PM ₁₀
7	Baikampady Indl. Area, Mangaluru	57	Satisfactory	PM ₁₀
8	Gokul Road. Opp. to New Bustand, Hubballi	82	Satisfactory	PM ₁₀
9	Lakkamanahalli Indl Area, Dharwad	66	Satisfactory	PM ₁₀
10	Karwar Port, Director's Office, Karwar	*	*	*
11	Traffic Police Station, Davangere	99	Satisfactory	PM ₁₀
12	KSPCB Office Premises, Davangere	110	Moderate	PM ₁₀
13	HPF Intake Well, Kumarapatnam,	42	Good	PM ₁₀
14	Vishveshwariah Iron & Steel Ltd., Bhadravathi	20	Good	PM ₁₀
15	KSPCB Office Premises, Chitradurga	71	Satisfactory	PM ₁₀
16	KSPCB Office Premises, Belagavi	74	Satisfactory	PM ₁₀
17	KSPCB Office Premises, Vijyapura	48	Good	PM ₁₀
18	KSPCB Office Premises, Bagalkote	61	Satisfactory	PM ₁₀
19	KSPCB Office Premises, Ballari	76	Satisfactory	PM ₁₀
20	KSPCB Office Premises, Kalburagi	92	Satisfactory	PM ₁₀
21	KSPCB Office Premises, Raichur	*	*	*

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