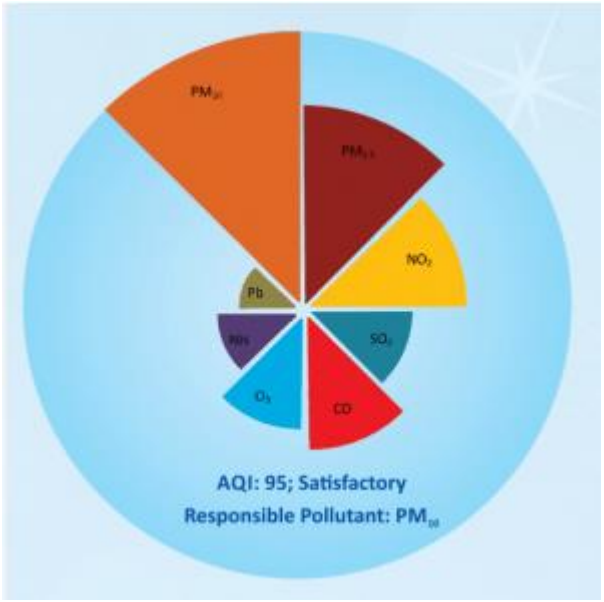
Air Quality Index

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_{10}, $PM_{2.5}$, NO_2, SO2, CO, O_3, NH_3, 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 PM2.5 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 7 Continuous Ambient Air Quality Monitoring Stations (CAAQMs) covering Residential, Commercial, Industrial and Silence Zones. The Air Quality is being monitored round the clock, 24 hours a day for the Primary and secondary pollutants as well as Meteorological parameters. The Air Quality monitored during the month of October-2022 is as shown below:

Daily AQI Values of Bengaluru (October-2022)

Date/ CAAQM Stations	City Railway Station, Majestic	Nisarga Bhavan, Saneguruvanahalli	Veterinary College, Hebbal	Shalini Ground, Jayanagar	KAVIKA, Mysore Road	NIMHANS	H.S.R Layout, Near Central Silkboard
01-10-2022	67	49	36	28	58	29	*
02-10-2022	72	49	47	62	74	47	*
03-10-2022	79	48	55	66	132	64	*
04-10-2022	78	45	60	74	91	64	115
05-10-2022	58	45	56	60	85	60	111
06-10-2022	76	45	*	44	301	46	114
07-10-2022	78	46	47	41	98	44	107
08-10-2022	68	46	52	66	110	53	108
09-10-2022	69	44	54	45	93	48	71
10-10-2022	77	44	47	34	83	39	55
11-10-2022	68	43	59	45	78	47	62
12-10-2022	68	42	54	42	62	42	85
13-10-2022	71	41	52	43	75	47	57
14-10-2022	74	42	49	43	81	46	69
15-10-2022	73	41	47	28	52	28	42
16-10-2022	89	41	47	30	75	36	43
17-10-2022	92	28	46	37	77	33	45
18-10-2022	95	31	46	32	78	32	70
19-10-2022	105	65	43	48	79	34	72
20-10-2022	102	55	56	49	90	47	70
21-10-2022	93	31	60	59	104	50	96
22-10-2022	113	37	76	102	176	79	129
23-10-2022	55	41	82	89	147	82	154
24-10-2022	97	72	154	254	312	83	320
25-10-2022	109	98	210	312	349	109	301
26-10-2022	109	105	105	204	316	110	168
27-10-2022	93	69	83	84	147	78	129
28-10-2022	84	63	66	75	111	55	92
29-10-2022	71	58	75	69	121	61	66
30-10-2022	80	52	85	79	174	73	96
31-10-2022	90	48	108	111	216	101	131
Min	**55**	**28**	**36**	**28**	**52**	**28**	**42**
Max	**113**	**105**	**210**	**312**	**349**	**110**	**320**

Good	Satisfactory	Moderate	Poor	Very Poor	Severe
(0-50)	(51-100)	(101-200)	(201-300)	(301-400)	(>401)

Possible Health Impacts

Good	Minimal Impact
Satisfactory	Minor breathing discomfort to sensitive people
Moderate	Breathing discomfort to the people with lungs, asthma and heart diseases
Poor	Breathing discomfort to most people on prolonged exposure
Very Poor	Respiratory illness on prolonged exposure
Severe	Affects healthy people and seriously impacts those with existing diseases

HEBBAL-Oct-2022														
Date	**CO (mg/m³)**	**Ozone (µg/m³)**	**NO2 (µg/m³)**	**NH3 (µg/m³)**	**SO2 (µg/m³)**	**PM2.5 (µg/m³)**	**PM10 (µg/m³)**	**BEN. (µg/m³)**	**AT (°C)**	**RH (%)**	**WS (m/s)**	**WD (deg)**	**BP (mmHg)**	**AQI**
01-10-2022	0.42	36.4	3.7	2.8	2.9	19.8	35.8	0.1	20.0	89	1.2	166	709	36
02-10-2022	0.54	49.4	9.6	5.2	2.6	18.3	47.0	0.1	20.2	87	1.1	162	708	47
03-10-2022	0.37	62.5	16.0	14.4	1.9	29.1	55.3	0.1	21.3	83	1.0	141	707	55
04-10-2022	0.34	97.6	5.7	6.7	1.2	32.6	59.6	0.1	22.5	78	1.1	150	708	60
05-10-2022	0.33	48.0	3.8	2.8	2.6	28.4	55.9	0.1	22.8	78	1.2	166	707	56
06-10-2022	-	-	-	-	-	-	-	-	-	-	-	-	-	*
07-10-2022	0.31	37.0	10.5	7.7	3.5	19.7	46.8	0.1	21.5	78	1.0	127	707	47
08-10-2022	0.33	22.4	7.1	4.3	3.2	25.3	51.9	0.1	22.9	74	0.9	117	707	52
09-10-2022	0.32	26.5	7.6	5.9	3.1	26.5	54.1	0.1	22.5	81	0.9	123	708	54
10-10-2022	0.37	14.3	21.7	13.2	2.8	23.4	46.8	0.1	22.9	81	0.9	118	708	47
11-10-2022	0.43	12.0	26.3	11.8	2.5	28.4	59.3	0.1	23.1	80	1.0	129	709	59
12-10-2022	0.42	26.2	21.8	10.4	2.7	24.8	54.1	0.1	23.0	79	1.0	124	709	54
13-10-2022	0.43	34.2	27.9	10.6	2.4	25.8	52.2	0.1	23.1	82	1.0	125	710	52
14-10-2022	0.44	33.6	22.3	10.4	2.7	28.4	48.8	0.1	22.0	86	0.9	123	709	49
15-10-2022	0.45	15.0	19.1	8.6	2.5	27.0	46.9	0.1	22.9	85	1.0	132	707	47
16-10-2022	0.44	32.2	3.7	2.8	2.2	28.2	47.4	0.1	22.5	84	0.9	116	711	47
17-10-2022	0.48	9.5	10.1	3.5	2.4	21.4	46.2	0.1	22.6	82	0.9	114	713	46
18-10-2022	0.49	41.7	10.9	4.8	2.5	23.5	46.2	0.1	21.6	85	0.9	123	711	46
19-10-2022	0.44	38.8	3.7	2.8	1.6	21.2	42.5	0.1	22.9	80	0.9	120	718	43
20-10-2022	0.47	54.3	19.7	7.7	2.1	29.4	55.5	0.1	23.1	80	0.9	104	716	56
21-10-2022	0.43	29.4	30.9	10.0	2.5	26.5	60.4	0.1	22.8	76	0.8	93	713	60
22-10-2022	0.45	-	26.0	11.8	2.2	43.9	76.0	0.1	23.6	69	1.0	127	714	76
23-10-2022	0.33	-	7.9	6.8	3.3	45.6	81.7	0.1	21.6	62	1.0	143	710	82
24-10-2022	0.34	63.7	3.8	2.8	3.3	76.1	119.8	0.1	20.3	56	1.0	134	710	154
25-10-2022	0.39	42.7	5.9	4.0	3.0	93.1	141.0	0.1	20.6	61	0.9	117	710	210
26-10-2022	0.48	35.6	11.4	5.4	2.8	58.4	107.8	0.1	21.9	58	0.8	100	711	105
27-10-2022	0.50	11.6	8.1	4.3	3.1	41.7	82.8	0.1	22.4	63	0.8	96	710	83
28-10-2022	0.38	11.7	7.3	12.1	3.0	37.7	65.5	0.1	21.8	73	0.9	116	710	66
29-10-2022	0.40	12.9	26.1	28.5	3.7	45.2	74.3	0.1	21.8	77	0.9	109	712	75
30-10-2022	0.37	13.1	22.8	21.3	3.1	50.7	79.9	0.1	22.3	76	0.8	98	713	85
31-10-2022	0.42	33.4	31.5	15.8	3.2	60.8	112.4	0.1	22.5	64	0.9	106	711	108
Average	**0.41**	**33.8**	**14.4**	**8.6**	**2.7**	**35.4**	**65.1**	**0.1**	**22.2**	**76**	**1.0**	**124**	**710**	*
Minimum	0.31	9.5	3.7	2.8	1.2	18.3	35.8	0.1	20.0	56	0.8	93	707	*
Maximum	0.54	97.6	31.5	28.5	3.7	93.1	141.0	0.1	23.6	89	1.2	166	718	*

Jayanagar-Oct-2022														
Date	**CO mg/m³**	**Ozone µg/m³**	**NO2 µg/m³**	**NH3 µg/m³**	**SO2 µg/m³**	**PM2.5 µg/m³**	**PM10 µg/m³**	**BEN µg/m³**	**AT °C**	**RH %**	**WS m/s**	**WD deg.**	**BP mmHg**	**AQI**
01-10-2022	0.25	18.5	15.0	2.9	6.0	15.5	28.1	0.14	20.1	83	1.1	235	708	28
02-10-2022	0.40	18.2	19.5	3.2	5.7	35.8	61.9	0.19	22.7	73	1.0	225	707	62
03-10-2022	0.67	19.5	25.6	3.5	6.1	39.3	63.3	0.30	21.4	79	0.7	246	707	66
04-10-2022	0.39	19.5	20.3	3.1	5.4	43.9	74.0	0.32	22.8	72	0.9	231	706	74
05-10-2022	0.31	19.5	16.4	3.0	5.7	35.8	57.0	0.34	22.5	74	1.0	228	706	60
06-10-2022	0.19	19.2	14.4	3.1	5.9	26.1	43.4	0.28	20.8	78	1.1	222	706	44
07-10-2022	0.29	19.0	16.1	3.1	6.3	22.3	41.2	0.28	22.4	70	1.1	216	707	41
08-10-2022	0.56	18.9	27.3	2.6	5.9	27.7	65.5	0.25	23.0	68	0.5	189	707	66
09-10-2022	0.40	19.5	27.9	2.9	5.9	26.7	38.5	0.37	21.8	84	0.5	186	708	45
10-10-2022	0.41	19.5	22.1	3.1	6.1	19.3	34.0	0.31	23.7	81	0.5	198	709	34
11-10-2022	0.38	19.5	20.9	3.0	6.0	20.0	45.0	0.34	23.9	79	0.6	188	708	45
12-10-2022	0.38	19.4	18.8	3.1	6.1	14.4	41.6	0.31	23.6	77	0.8	190	709	42
13-10-2022	0.41	19.5	22.0	3.0	6.3	21.0	42.8	0.31	24.4	77	0.5	192	708	43
14-10-2022	0.43	19.2	21.4	3.5	5.4	25.8	36.8	0.34	22.4	85	0.6	205	708	43
15-10-2022	0.41	19.5	22.3	2.8	5.2	11.2	26.4	0.32	23.9	81	0.6	186	707	28
16-10-2022	0.38	19.7	21.3	3.0	6.3	17.8	27.0	0.31	23.1	82	0.4	175	709	30
17-10-2022	0.39	19.2	23.7	2.7	6.2	12.8	37.1	0.32	24.2	77	0.5	171	710	37
18-10-2022	0.60	19.4	21.8	3.0	5.9	17.5	31.8	0.27	22.4	83	0.7	225	710	32
19-10-2022	0.50	19.4	21.7	3.0	5.4	16.2	47.6	0.27	24.2	75	0.5	188	709	48
20-10-2022	0.58	19.4	24.4	2.8	5.0	21.8	48.5	0.38	24.1	76	0.5	150	710	49
21-10-2022	0.62	19.4	28.6	4.2	5.1	23.7	59.2	0.32	23.4	76	0.4	135	711	59
22-10-2022	0.74	19.3	29.8	6.1	5.3	49.3	103.2	0.35	23.9	68	0.4	143	711	102
23-10-2022	0.45	26.7	22.8	6.3	6.2	49.8	88.5	0.34	23.3	55	0.6	196	710	89
24-10-2022	0.69	25.2	32.5	11.0	8.8	106.3	148.2	0.32	21.7	50	0.8	237	709	254
25-10-2022	1.19	19.2	43.3	16.7	8.1	136.0	183.3	1.53	21.8	58	0.5	225	710	312
26-10-2022	1.11	19.2	30.6	16.6	7.5	91.3	141.9	1.89	23.3	53	0.4	142	711	204
27-10-2022	1.09	27.2	32.5	16.2	7.2	37.1	84.0	2.15	23.6	59	0.5	140	710	84
28-10-2022	1.30	19.4	23.9	16.5	7.5	33.3	74.8	2.30	23.3	69	0.5	119	709	75
29-10-2022	0.79	27.2	19.4	16.7	8.3	35.1	68.5	1.93	22.8	75	0.5	125	709	69
30-10-2022	0.57	30.5	21.7	16.3	7.4	47.3	76.9	2.15	23.7	73	0.4	113	710	79
31-10-2022	0.65	28.5	21.0	16.6	8.1	60.5	115.8	2.08	24.1	59	0.5	114	709	111
Average	**0.57**	**20.9**	**23.5**	**6.6**	**6.3**	**36.8**	**65.7**	**0.69**	**23.0**	**73**	**0.6**	**185**	**709**	*
Maximum	1.30	30.5	43.3	16.7	8.8	136.0	183.3	2.30	24.4	85	1.1	246	711	*
Minimum	0.19	18.2	14.4	2.6	5.0	11.2	26.4	0.14	20.1	50	0.4	113	706	*

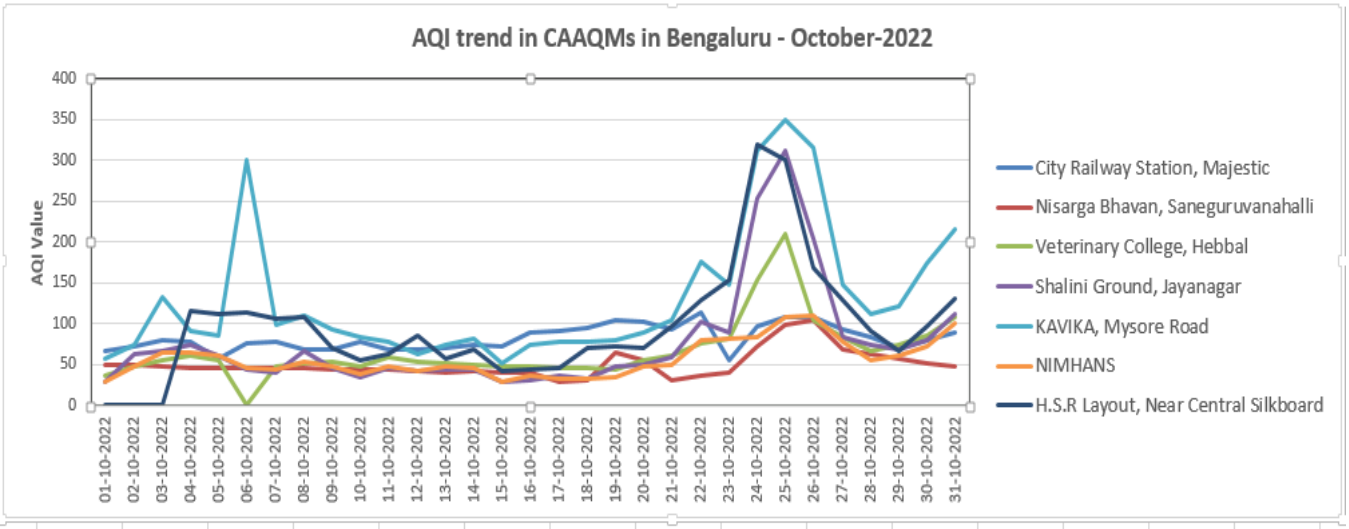
KAVIKA-Oct-2022														
Date	**CO mg/m³**	**Ozone µg/m³**	**NO2 µg/m³**	**NH3 µg/m³**	**SO2 µg/m³**	**PM2.5 µg/m³**	**PM10 µg/m³**	**BEN µg/m³**	**AT °C**	**RH %**	**WS m/s**	**WD deg.**	**BP mmHg**	**AQI**
01-10-2022	0.69	16.5	18.5	33.1	5.5	34.5	51.7	0.74	22.3	81	1.2	256	717	58
02-10-2022	0.76	22.1	15.5	27.0	6.0	44.3	73.1	0.80	23.9	75	1.2	262	717	74
03-10-2022	1.33	14.5	17.4	47.4	5.2	69.6	108.0	1.84	23.7	77	1.0	252	716	132
04-10-2022	0.98	22.8	18.2	32.2	4.8	54.8	88.0	1.08	25.2	70	1.1	247	716	91
05-10-2022	0.77	27.3	14.3	26.9	4.9	50.7	69.8	0.75	24.7	72	1.1	255	715	85
06-10-2022	0.82	19.0	14.7	28.0	5.5	123.0	154.2	0.60	23.0	77	1.1	246	715	301
07-10-2022	0.71	18.1	11.4	27.2	5.4	59.0	87.5	0.69	24.7	68	1.2	250	717	98
08-10-2022	1.12	13.3	13.2	38.8	5.3	63.0	105.0	1.24	25.7	65	0.9	190	717	110
09-10-2022	0.95	11.5	10.7	34.4	4.7	55.8	79.6	0.95	24.1	78	0.8	189	718	93
10-10-2022	0.89	11.0	12.1	31.5	5.2	50.0	67.6	0.85	24.9	76	0.7	194	718	83
11-10-2022	0.73	16.6	11.3	25.3	5.5	46.6	66.5	0.69	25.2	75	0.8	179	718	78
12-10-2022	0.79	17.0	12.6	26.5	5.6	37.1	61.1	0.75	25.1	72	0.9	192	719	62
13-10-2022	0.85	19.8	15.3	29.8	5.3	45.1	60.6	0.85	25.2	75	0.8	181	718	75
14-10-2022	1.09	18.6	17.7	35.8	5.7	48.8	60.6	1.13	23.5	83	0.8	205	718	81
15-10-2022	1.04	13.7	17.0	30.3	5.9	30.1	52.0	1.00	24.6	79	0.8	197	717	52
16-10-2022	0.88	15.7	14.9	30.0	5.9	44.8	57.3	0.69	24.4	79	0.8	173	720	75
17-10-2022	0.95	11.2	12.1	32.6	5.5	45.2	77.2	0.94	25.3	72	0.8	151	721	77
18-10-2022	1.07	16.0	15.6	33.7	5.4	46.6	72.0	1.40	23.9	79	0.8	218	721	78
19-10-2022	1.03	17.7	21.9	38.2	4.8	47.5	75.8	0.94	25.0	74	0.8	190	720	79
20-10-2022	1.16	14.9	20.8	39.1	5.4	53.7	89.0	0.94	25.2	73	0.9	157	721	90
21-10-2022	1.29	11.0	20.9	48.2	5.5	58.5	105.3	1.10	25.2	69	0.7	103	722	104
22-10-2022	1.52	12.3	28.3	60.0	5.3	82.9	137.3	1.38	25.5	63	0.3	23	722	176
23-10-2022	0.96	15.9	22.2	37.2	5.6	74.2	111.5	0.80	25.0	51	0.3	17	720	147
24-10-2022	0.92	9.0	23.9	38.2	6.3	135.7	171.2	0.77	24.0	44	0.3	14	719	312
25-10-2022	1.38	14.6	22.3	49.8	6.4	183.8	228.2	0.79	24.4	49	0.3	12	720	349
26-10-2022	1.21	6.2	28.3	52.5	6.0	141.3	196.5	0.92	25.5	46	-	-	721	316
27-10-2022	1.15	4.5	21.9	58.1	5.7	74.1	114.5	1.06	25.2	43	0.4	78	718	147
28-10-2022	1.13	4.0	18.7	48.5	5.1	63.4	109.3	0.93	24.4	44	0.5	61	719	111
29-10-2022	1.12	4.8	17.6	46.2	6.3	66.3	97.3	0.97	23.9	43	0.6	66	720	121
30-10-2022	1.09	4.2	17.0	44.0	4.5	82.3	125.8	0.86	24.7	43	0.5	60	720	174
31-10-2022	1.29	3.5	24.3	47.5	5.1	94.9	154.4	1.03	25.5	43	0.6	62	719	216
Average	**1.02**	**13.8**	**17.8**	**38.0**	**5.5**	**68.0**	**100.2**	**0.95**	**24.6**	**66**	**0.8**	**156**	**719**	*
Maximum	1.52	27.3	28.3	60.0	6.4	183.8	228.2	1.84	25.7	83	1.2	262	722	*
Minimum	0.69	3.5	10.7	25.3	4.5	30.1	51.7	0.60	22.3	43	0.3	12	715	*

NIMHANS-Oct-2022														
Date	**CO mg/m³**	**Ozone µg/m³**	**NO2 µg/m³**	**NH3 µg/m³**	**SO2 µg/m³**	**PM2.5 µg/m³**	**PM10 µg/m³**	**BEN µg/m³**	**AT °C**	**RH %**	**WS m/s**	**WD deg.**	**BP mmHg**	**AQI**
01-10-2022	0.45	19.1	19.1	2.1	4.3	14	29	0.37	21.3	54	2.3	292	706	29
02-10-2022	0.49	20.8	17.6	2.1	4.6	21	47	0.38	22.7	47	2.1	275	706	47
03-10-2022	0.47	15.5	22.9	2.1	5.0	28	64	0.49	22.5	48	1.7	273	706	64
04-10-2022	0.49	22.6	19.8	2.1	4.6	27	64	0.42	23.7	44	1.6	249	705	64
05-10-2022	0.48	23.7	18.0	2.1	4.9	26	60	0.39	23.4	46	1.7	265	705	60
06-10-2022	0.48	20.2	17.8	2.1	4.5	20	46	0.41	21.8	55	1.9	281	705	46
07-10-2022	0.50	17.6	19.9	2.2	4.5	20	44	0.38	23.3	53	1.6	271	706	44
08-10-2022	0.51	17.9	19.7	2.1	4.9	23	53	0.38	23.8	52	1.0	167	707	53
09-10-2022	0.49	14.5	21.7	2.0	4.7	21	48	0.40	22.5	62	0.8	197	707	48
10-10-2022	0.50	14.8	21.9	2.1	4.2	18	39	0.38	23.5	60	0.7	189	708	39
11-10-2022	0.47	16.2	21.8	2.0	4.4	21	47	0.38	23.8	59	1.1	174	707	47
12-10-2022	0.58	15.5	22.0	2.0	5.2	19	42	0.41	23.6	57	0.9	195	708	42
13-10-2022	0.49	16.2	24.1	2.1	5.5	21	47	0.39	23.9	58	0.8	159	707	47
14-10-2022	0.62	19.3	26.3	2.1	4.8	20	46	0.46	22.4	63	1.0	211	707	46
15-10-2022	0.33	17.1	22.0	2.1	4.6	12	24	0.35	23.4	60	1.0	174	706	28
16-10-2022	0.50	16.6	22.2	2.0	4.4	16	36	0.40	22.9	61	0.7	165	708	36
17-10-2022	0.56	11.0	21.4	2.0	4.7	15	33	0.37	23.6	58	0.9	156	709	33
18-10-2022	0.38	18.3	18.9	2.0	5.4	15	32	0.36	22.6	60	1.0	260	710	32
19-10-2022	0.46	22.7	23.7	2.0	5.0	15	34	0.36	23.6	57	0.9	173	708	34
20-10-2022	0.46	19.9	24.5	2.1	3.6	21	47	0.40	23.7	57	0.9	157	709	47
21-10-2022	0.50	15.8	25.5	2.1	4.0	22	50	0.38	23.2	57	0.8	137	710	50
22-10-2022	0.39	26.2	25.9	2.0	4.2	34	79	0.41	23.5	52	1.0	107	710	79
23-10-2022	0.30	35.3	23.4	2.0	4.9	35	82	0.35	22.8	43	1.1	203	709	82
24-10-2022	0.34	34.4	24.3	2.0	5.2	35	83	0.37	21.4	39	1.4	232	708	83
25-10-2022	0.60	30.0	32.7	2.0	5.7	47	114	0.58	21.8	42	0.8	192	709	109
26-10-2022	0.60	33.9	33.4	2.0	5.4	48	115	0.49	22.7	41	0.6	150	710	110
27-10-2022	0.67	24.4	27.3	2.1	5.2	33	78	0.46	22.8	46	0.8	143	709	78
28-10-2022	0.36	29.7	19.3	2.1	4.4	24	55	0.31	22.6	53	1.2	101	708	55
29-10-2022	0.35	26.2	21.3	2.1	5.1	26	61	0.31	22.2	57	1.0	125	709	61
30-10-2022	0.40	28.2	20.4	2.0	4.4	31	73	0.30	23.0	55	0.9	112	709	73
31-10-2022	0.35	40.0	23.8	2.1	4.9	42	101	0.35	23.4	45	1.0	106	708	101
Average	**0.47**	**22.1**	**22.7**	**2.1**	**4.8**	**25**	**57**	**0.39**	**22.9**	**53**	**1.1**	**190**	**708**	*
Maximum	0.67	40.0	33.4	2.2	5.7	48	115	0.58	23.9	63	2.3	292	710	*
Minimum	0.30	11.0	17.6	2.0	3.6	12	24	0.30	21.3	39	0.6	101	705	*

Sanneguruvanahalli-Oct-2022										
Date	**NO_2 ug/m3**	**SO_2 ug/m3**	**CO mg/m3**	**PM_{10} ug/m3**	**TEMP degree C**	**HR %**	**WS m/s**	**WD degree**	**SR W/m2**	**AQI**
01-10-2022	17.9	6.2	0.47	48.8	25.75	77.95	0.38	62.12	119.90	49
02-10-2022	17.9	4.5	0.48	48.8	25.89	78.01	0.35	52.27	106.22	49
03-10-2022	20.3	4.3	0.48	48.1	25.46	82.36	0.29	129.47	111.38	48
04-10-2022	18.4	3.9	0.46	45.3	24.92	82.12	0.18	194.42	118.21	45
05-10-2022	18.3	2.8	0.46	45.3	24.93	81.94	0.20	215.06	94.74	45
06-10-2022	18.6	4.3	0.49	45.3	24.75	84.11	0.19	200.01	112.87	45
07-10-2022	19.2	3.2	0.47	45.5	24.64	84.13	0.23	148.68	104.30	46
08-10-2022	18.9	6.8	0.42	45.8	24.55	84.31	0.21	149.11	122.92	46
09-10-2022	18.4	6.8	0.45	44.0	24.52	83.76	0.21	172.59	75.57	44
10-10-2022	19.3	4.6	0.48	44.0	24.89	81.97	0.19	211.66	75.83	44
11-10-2022	21.5	4.8	0.47	43.2	24.34	84.36	0.43	53.86	45.11	43
12-10-2022	20.6	3.6	0.37	42.0	25.18	78.44	0.23	140.25	116.17	42
13-10-2022	20.6	3.8	0.42	41.3	24.63	83.59	0.20	177.69	68.72	41
14-10-2022	22.1	5.9	0.43	41.5	24.22	84.23	0.14	192.06	107.82	42
15-10-2022	20.9	3.2	0.41	41.4	24.88	83.54	0.22	133.03	47.02	41
16-10-2022	19.0	2.4	0.41	41.4	24.85	83.26	0.35	46.08	42.17	41
17-10-2022	22.7	5.5	0.42	20.8	24.76	70.04	0.19	209.14	43.78	28
18-10-2022	24.0	4.0	0.49	30.6	24.61	70.91	0.21	133.70	73.12	31
19-10-2022	23.5	4.1	0.50	65.1	25.09	71.44	0.19	145.29	97.10	65
20-10-2022	22.7	4.4	0.40	56.4	26.04	72.59	0.21	138.96	117.17	55
21-10-2022	21.0	5.5	0.40	30.9	24.50	71.57	0.14	188.68	107.75	31
22-10-2022	19.6	3.5	0.46	37.1	24.55	70.92	0.21	144.24	41.58	37
23-10-2022	18.8	4.1	0.41	40.7	24.57	70.79	0.35	45.97	40.60	41
24-10-2022	21.6	11.2	0.63	72.3	25.32	71.25	0.39	46.93	133.74	72
25-10-2022	25.1	14.4	0.77	97.7	25.28	71.87	0.39	154.45	96.43	98
26-10-2022	26.8	15.6	1.16	107.0	25.11	73.16	0.19	105.16	108.16	105
27-10-2022	23.4	7.5	0.98	69.1	24.63	75.43	0.15	191.15	113.69	69
28-10-2022	21.1	7.1	0.78	62.9	24.51	75.45	0.35	216.85	99.83	63
29-10-2022	21.2	9.3	0.77	58.3	24.52	75.24	0.21	186.56	110.60	58
30-10-2022	20.8	7.0	0.78	52.1	24.56	75.36	0.25	196.73	98.03	52
31-10-2022	22.4	5.8	0.80	48.3	24.61	75.46	0.23	202.12	139.04	48
Minimum	17.9	2.2	0.37	31.1	24.22	71.38	0.10	45.97	40.60	*
Maximum	26.7	20.8	1.14	106.6	26.53	84.36	0.43	216.85	139.04	*
Average	20.9	5.8	0.55	50.2	25.30	80.16	0.23	148.14	93.21	*

City Railway Station-Oct-2022					
Date	**NO_2 ug/m3**	**SO_2 ug/m3**	**CO mg/m3**	**PM10 ug/m3**	**AQI**
01-10-2022	22.5	18.7	1.33	53.1	67
02-10-2022	22.5	18.6	1.44	59.1	72
03-10-2022	22.5	18.6	1.58	57.0	79
04-10-2022	22.4	18.6	1.56	52.7	78
05-10-2022	22.5	18.6	1.11	57.8	58
06-10-2022	22.5	18.6	1.52	60.7	76
07-10-2022	22.4	18.6	1.55	60.4	78
08-10-2022	22.4	18.6	1.21	67.9	68
09-10-2022	22.6	18.6	1.37	51.3	69
10-10-2022	22.5	18.7	1.54	53.6	77
11-10-2022	22.6	18.6	1.35	52.5	68
12-10-2022	22.5	18.6	1.36	45.0	68
13-10-2022	22.4	18.6	1.41	36.0	71
14-10-2022	22.5	18.6	1.47	48.1	74
15-10-2022	22.5	18.6	1.23	73.0	73
16-10-2022	22.5	18.7	1.58	89.3	89
17-10-2022	21.4	19.1	1.84	57.7	92
18-10-2022	22.6	20.1	1.89	61.3	95
19-10-2022	21.0	19.6	2.43	45.1	105
20-10-2022	21.4	20.7	2.13	59.6	102
21-10-2022	21.3	21.6	1.85	86.5	93
22-10-2022	21.3	20.6	1.82	119.4	113
23-10-2022	21.3	21.0	1.61	88.2	55
24-10-2022	22.6	23.1	1.54	96.9	97
25-10-2022	23.9	23.9	1.94	113.2	109
26-10-2022	28.7	30.2	2.07	113.3	109
27-10-2022	25.5	16.3	1.85	82.8	93
28-10-2022	22.0	14.2	1.68	54.6	84
29-10-2022	22.9	16.4	1.41	65.7	71
30-10-2022	23.7	17.3	1.42	80.2	80
31-10-2022	23.6	17.3	1.46	89.6	90
Minimum	20.5	14.2	1.11	36.0	*
Maximum	28.7	30.2	2.21	119.4	*
Average	22.6	19.3	1.56	70.9	*

Silkboard-Oct-2022														
Date	**CO mg/m³**	**Ozone µg/m³**	**NO2 µg/m³**	**NH3 µg/m³**	**SO2 µg/m³**	**PM2.5 µg/m³**	**PM10 µg/m³**	**BEN µg/m³**	**AT °C**	**RH %**	**WS m/s**	**WD deg.**	**BP mmHg**	**AQI**
01-10-2022	-	-	-	-	-	-	-	-	-	-	-	-	-	*
02-10-2022	-	-	-	-	-	-	-	-	-	-	-	-	-	*
03-10-2022	-	-	-	-	-	-	-	-	-	-	-	-	-	*
04-10-2022	0.56	24.6	16.3	53.1	5.7	31	123	0.13	24.1	71	1.0	245	686	115
05-10-2022	0.94	25.0	24.3	47.1	5.6	32	116	0.23	23.9	72	1.4	239	686	111
06-10-2022	1.04	23.1	20.1	48.6	5.5	31	121	0.26	23.0	74	1.4	235	686	114
07-10-2022	0.86	22.0	10.1	27.8	5.7	27	111	0.22	23.0	70	1.2	212	687	107
08-10-2022	0.96	22.9	24.1	28.0	5.4	29	112	0.24	24.1	68	0.9	171	687	108
09-10-2022	1.02	21.3	40.8	20.4	5.5	17	71	0.26	22.5	82	0.8	166	688	71
10-10-2022	0.91	21.8	30.5	14.7	5.5	20	55	0.23	23.0	81	0.8	163	688	55
11-10-2022	0.56	25.2	26.8	11.2	5.6	20	62	0.14	23.9	77	1.2	130	688	62
12-10-2022	0.87	23.1	23.4	14.1	5.4	19	85	0.22	23.7	76	1.1	142	688	85
13-10-2022	0.56	26.2	27.9	12.0	5.6	21	57	0.14	24.4	75	1.0	106	688	57
14-10-2022	1.25	25.7	28.5	9.0	5.7	28	69	0.31	22.7	82	1.0	189	687	69
15-10-2022	0.76	26.2	33.9	5.0	5.7	12	38	0.19	23.5	79	1.1	152	687	42
16-10-2022	0.57	26.9	34.3	5.2	5.7	15	34	0.14	23.0	80	0.8	124	689	43
17-10-2022	0.47	24.2	36.0	4.2	5.7	12	34	0.12	23.7	77	1.0	111	689	45
18-10-2022	0.99	24.1	29.1	8.6	5.7	21	70	0.25	23.1	79	1.1	192	689	70
19-10-2022	0.78	26.6	31.8	7.5	5.6	19	72	0.19	23.7	75	1.0	156	689	72
20-10-2022	0.65	27.0	33.8	5.8	5.5	22	70	0.16	23.8	75	0.9	118	689	70
21-10-2022	0.63	26.0	23.9	9.3	5.7	25	96	0.16	23.2	74	0.9	109	690	96
22-10-2022	0.77	28.6	12.9	16.7	5.7	47	144	0.20	23.5	68	0.9	161	690	129
23-10-2022	0.92	31.5	24.9	18.8	7.2	55	181	0.23	23.0	55	1.1	225	689	154
24-10-2022	1.07	28.6	39.5	23.2	10.1	146	312	0.27	21.7	52	1.2	180	688	320
25-10-2022	1.36	29.4	28.5	39.6	9.0	121	274	0.34	22.1	55	0.8	163	689	301
26-10-2022	1.04	32.3	35.7	34.2	8.9	69	202	0.26	21.6	58	0.6	112	690	168
27-10-2022	0.91	29.3	27.3	31.3	7.0	44	143	0.23	22.7	60	0.9	104	690	129
28-10-2022	0.61	29.3	21.1	20.0	5.9	31	92	0.15	22.4	70	1.2	119	689	92
29-10-2022	0.53	30.7	25.9	11.0	5.8	32	66	0.13	22.0	75	1.1	99	689	66
30-10-2022	0.60	28.6	24.5	12.2	5.8	45	96	0.15	22.6	75	0.9	111	689	96
31-10-2022	0.73	32.0	23.5	13.9	5.8	56	147	0.18	22.8	62	0.9	128	689	131
Average	**0.82**	**26.5**	**27.1**	**19.7**	**6.1**	**37**	**109**	**0.21**	**23.1**	**71**	**1.0**	**156**	**688**	*
Maximum	1.36	32.3	40.8	53.1	10.1	146	312	0.34	24.4	82	1.4	245	690	*
Minimum	0.47	21.3	10.1	4.2	5.4	12	34	0.12	21.6	52	0.6	99	686	*



INFERENCE:

The Air Quality monitored through the 7 CAAQMs (Continuous Ambient Air Quality Monitoring Stations) installed in Bengaluru at City Railway Station, Hebbal, Saneguruvanahalli, NIMHANS, Jayanagar, KAVIKA-Mysore Road and Central Silk Board-HSR Layout, for the month of October-2022 reveals that the Air quality is in Good and Satisfactory in almost all days over the number of days monitored. However, the Air Quality during the Diwali (Oct-24 to Oct-26) has shown variations to Poor and Very Poor only in 3 stations viz., Jayanagar, KAVIKA and Central Silk Board. This is observed in a spike as shown in the above graph.

*Further, the Air quality has shown Moderate to Poor in almost all stations at the month end and this may be due high vehicular movement. It is also observed that on the onset of winter, the Air quality has changed to moderate in some stations compared to previous months as this may be also due to one of Environment Factor known as "**Winter Inversion**".*