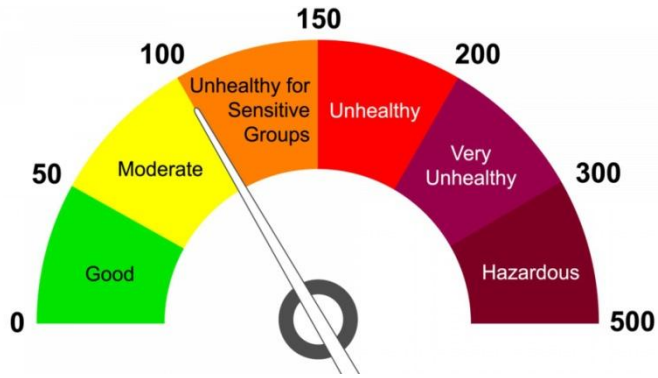
Madhya Pradesh

2022



Air Quality Index

Ambient Air Quality Statistics

Environment Surveillance Centre
M.P Pollution Control Board Bhopal - 462016
Phone No: +91-755-2469180 I Email: ercmppcb@nic.in

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Key Observations during Real-time Ambient Air Quality Monitoring during the year 2022 in Madhya Pradesh State

- The AQI value of all the cities at all the locations was observed to be in 'Good' or 'Satisfactory' range during 3rd quarter, i.e. July to September 2022. The only exception was the Paryawaran Parisar location at Bhopal where air quality exceeded to 'Moderate' level in Sept '22. (Pg.-6)

- 38 of the total districts, i.e. 73% were observed to have 'Satisfactory air quality' with AQI value of <100 during the year 2022. (Pg.-3)

- 12 of the total districts were noticed to have 'Moderate air quality'. (Pg.-3)

- Two districts fell under 'Poor air quality' zone during the year 2022. (Pg.-3)

- Rewa observed the highest number of 'Good air quality' days in the State with 94 % days falling under this category. (Pg.-4)

- Singrauli and Betul did not have good air quality even for a day during entire year. (Pg.-4)

- Singrauli is the only district which experienced 'Severe air quality days' with 5.5 % days falling under this category. (Pg.-4)

- Khargone city recorded the best air quality during the year 2022 with annual AQI of 51.9 followed by Satna and Maihar. (Pg.-5)

- Gwalior city recorded the worst air quality during 2022 with annual AQI value of 222.8. (Pg.-5)

- Gwalior and Singrauli were the only stations with annual AQI exceeding 200, i.e. under poor category. (Pg.-5)

- None of the NCAP cities could achieve tag of good or satisfactory air quality. (Pg.-5)

- None of the major cities of the State could achieve the annual standard norms of $PM_{2.5}$. (Pg.-7)

- Only seven of the monitored cities were found to experience concentration of $PM_{2.5}$ within the prescribed limit of 40 ug/m3. (Pg.-7)

- 13 of the monitored districts seen $PM_{2.5}$ level above the prescribed norms during the year 2022. (Pg.-7)
- Satna city secured the top position among the monitored cities with annual average concentration of $PM_{2.5}$ to be 18.2 ug/m3. (Pg.-7)

- Gwalior city was the lowest in rank with annual average conc. of $PM_{2.5}$ to be 107.6 ug/m3 against the annual limit of 40 ug/m3 (Pg.-7)

- None of the major cities of the State could achieve the prescribed norms of PM_{10}. (Pg.-8)

- Only six of the monitored districts were found to experience concentration of PM_{10} within the prescribed limit of 60 ug/m3. (Pg.-8)

- 14 of the monitored districts seen PM_{10} level above the prescribed norms during the year 2022. (Pg.-8)

- Five cities exceeded the PM_{10} level by over 100% above the prescribed limit of 60 ug/m3. (Pg.-8)

- In two cities the PM_{10} concentration reached 200% above the set limits. (Pg.-8)

- Maihar city ranked the top among the monitored cities with annual average concentration of PM_{10} to be 43.8 ug/m3. (Pg.-8)

- Gwalior city recorded the highest $PM_{2.5}$ concentration to the tune of 198.9 ug/m3 among the monitored sites. (Pg.-8)

- The % change in $PM_{2.5}$ level during three years, i.e. 2020-2022, indicates an increase in the concentration at all the four major cities in the State. Similarly there was no decrease in the level in any of the NCAP cities during last three years, thus defeating the objective of NCAP to reduce the air pollution. (Pg.15)

- Gwalior city saw an increase in $PM_{2.5}$ conc. by 64.9% followed by Bhopal 51.4%, Sagar 37.7% and Singrauli 33.3%. (Pg.-15)

- Improvement in $PM_{2.5}$ level was noted at Anuppur, Maihar, Damoh, Ratlam, Katni and Satna station. (Pg.-15)

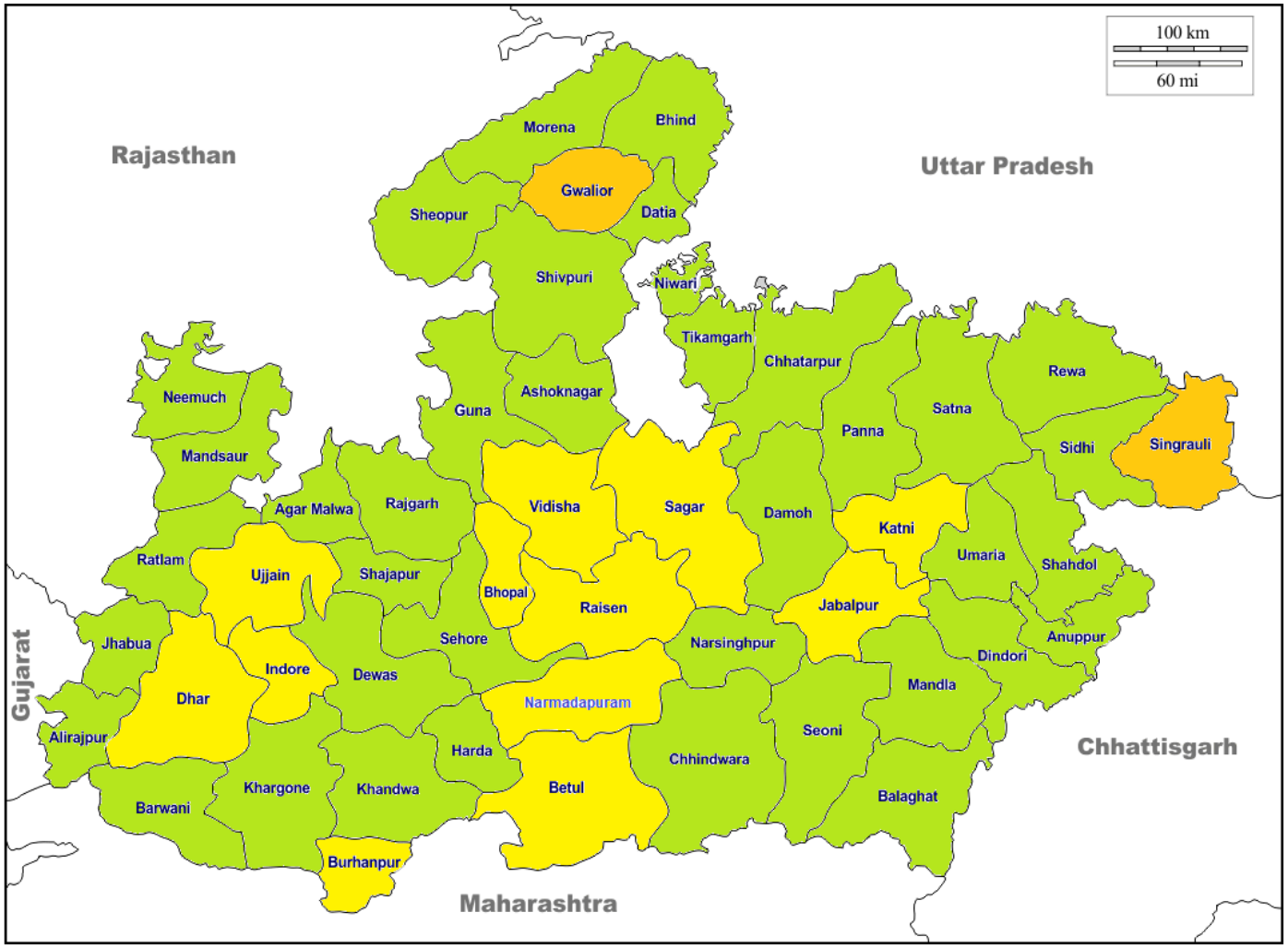
- The % change in PM_{10} level during three years, i.e. 2020-2022, indicates an increase in the concentration at all the four major cities in the State. Similarly there was no decrease in the level at any of the NCAP cities during last three years, thus defeating the objective of NCAP to reduce the air pollution. (Pg.16)

- Gwalior city saw an increase in PM_{10} conc. by 51.3% followed by Bhopal 37.0%, Jabalpur 35.9% and Indore 21.7%. (Pg.-16)

- Improvement in PM_{10} level was noted at Anuppur, Damoh, Satna, Ratlam, Katni and Maihar station. (Pg.-16)

- CAAQMS at Pthampur operated for the most number of days, i.e. 363, whereas the Gwalior station operated for the least number of days, i.e. 42. Pg/45.

Madhya Pradesh State AQI Map for Year 2022

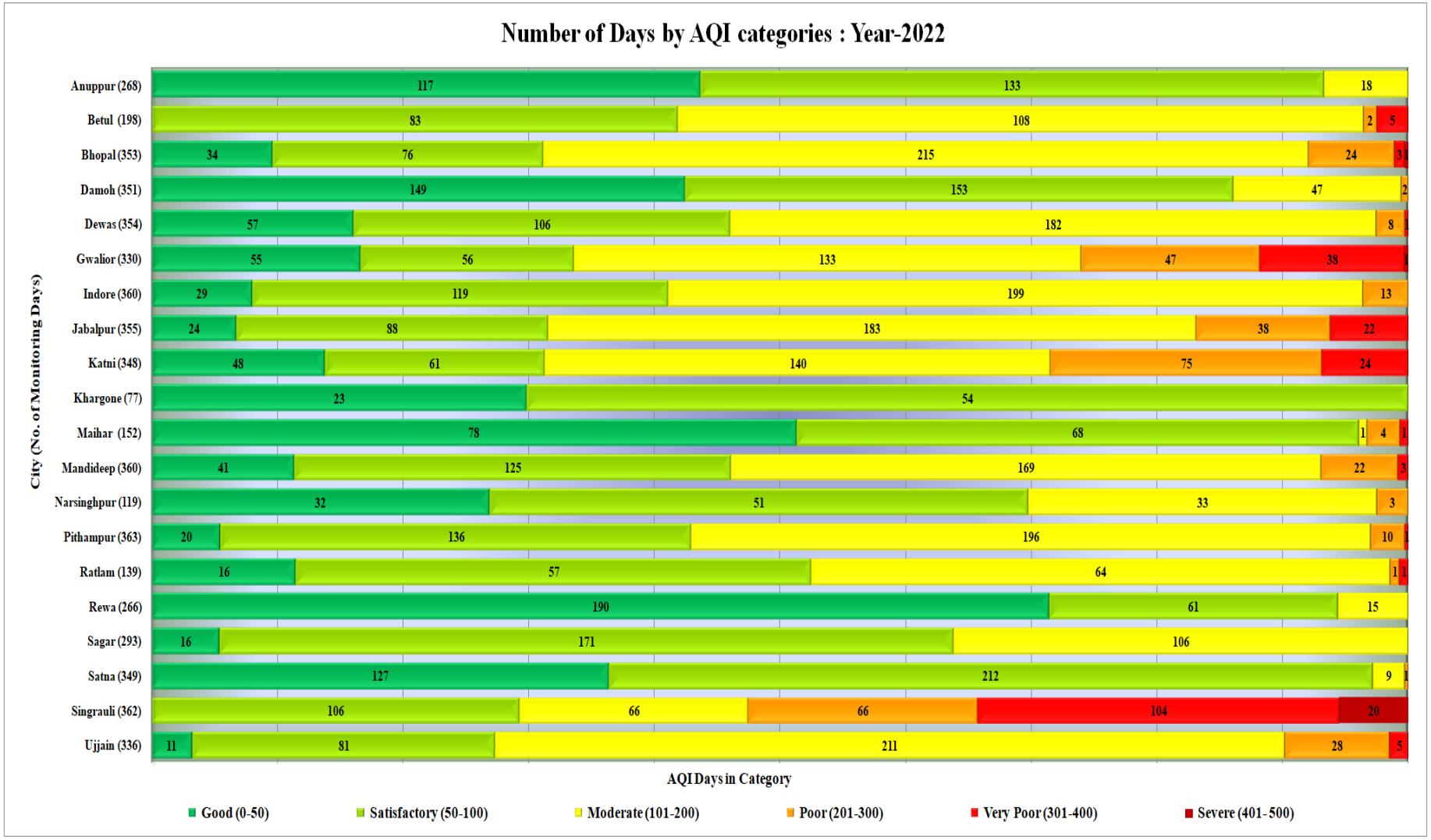


Satisfactory Moderate Poor

Average AQI (year-2022)		
Sr. No.	District	AQI
01	Khargone *	51.9
02	Satna *	56.5
03	Anuppur *	58.9
04	Dindori #	59.7
05	Damoh *	62.7
06	Panna #	63.0
07	Rewa *	64.5
08	Tikamgarh #	64.6
09	Umariya #	65.7
10	Niwari #	67.0
11	Chhatarpur #	68.0
12	Datiya #	68.5
13	Bhind #	69.5
14	Shivpuri #	70.6
15	Sheopur #	71.3
16	Seoni #	71.3
17	Balaghat #	71.8
18	Mandla #	72.6
19	Mandsore #	73.2
20	Ashoknagar #	73.2
21	Agar #	74.1
22	Sidhi #	74.5
23	Shahdol #	75.9
24	Guna #	76.5
25	Shajapur #	77.5
26	Chhindwara #	78.1
27	Morena #	78.6
28	Neemuch #	80.4
29	Rajgarh #	82.2
30	Alirajpur #	85.0
31	Narsinghpur *	86.1
32	Barwani #	86.2
33	Khandwa #	86.4
34	Harda #	88.3
35	Ratlam *	95.5
36	Sehore #	96.3
37	Jhabua #	96.7
38	Dewas *	99.9
39	Narmadapuram #	103.8
40	Raisen *	108.9
41	Dhar *	110.3
42	Vidisha #	112.7
43	Indore *	112.9
44	Sagar *	114.5
45	Burhanpur #	117.5
46	Betul *	124.6
47	Ujjain *	134.0
48	Jabalpur *	143.4
49	Katni *	145.8
50	Bhopal *	158.8
51	Singrauli *	214.2
52	Gwalior *	222.8

* Real-Time Station
\# Manual Station

City-wise AQI categories by number of days during the year 2022



Ranking of Cities based on Average AQI : year-2022

City	AQI	Rank
Khargone	51.9	1
Satna	54.4	2
Maihar	58.5	3
Anuppur	58.9	4
Damoh	62.7	5
Rewa*	64.5	6
Narsinghpur	86.1	7
Ratlam	95.5	8
Dewas*	99.9	9
Mandideep	108.9	10
Pithampur	110.3	11
Indore	112.9	12
Sagar*	114.5	13
Betul	124.6	14
Ujjain	134.0	15
Jabalpur	143.4	16
Katni*	145.8	17
Bhopal*	158.8	18
Singrauli*	214.2	19
Gwalior*	222.8	20

* Average Value is Shown for cities with >1 CAAQMS

City-wise AQI and Monthly operational Days of CAAQMS

Sr. No.	CITY » / Month	Anuppur, Collectorate	Betul , Collector Office	Bhopal, T T Nagar	Bhopal, Paryavaran Parisar	Damoh, Shrivastav Colony	Dewas, Govt. MG Hospital	Dewas, Bhopal Chauraha	Gwalior, Maharaj bada	Gwalior, Phool Bagh	Gwalior, City Center	Gwalior, DD Nagar	Indore, Chhoti Gwaltoli	Jabalpur, Marhatal	Katni, Gole Bazar	Katni, Regional Office	Khargone, Nagar Palika	Maihar , Sharda Temple	Mandideep, New Ind. Area	Narsinghpur, Dist. Edu. Off.	Neemuch, Civil Hospital	Pithampur, Sec-2 Ind. Area	Ratlam, Shathri Nagar	Rewa, Regional Office	Rewa, Collector Office	Sagar, Deen Dayal Nagar	Sagar, Collectorate Office	Satna, Bandhavgar Colony	Singrauli, Trauma Centre	Singrauli, Surya Kiran Bha.	Ujjain, Mahakaleshwar Tem.
01	Jan-22	73	179	163	# 05-09-2022	97	# 29-04-2022	112	# 21-10-2022	-	223	# 16-11-2022	132	190	200	171	# 07-08-2022	56	128	# 08-08-2022	-	129	72	43	99	75	# 21-10-2022	55	# 07-08-2022	253	149
	DAP	27	21	30		31		31		-	30		31	31	31	17		31	31		-	31	6	2	17	31		27		30	31
02	Feb-22	53	121	121		63		99		-	152		144	142	167	98		26	156		-	98	-	43	103	96		58		231	169
	DAP	28	24	28		28		28		-	26		28	28	28	28		11	28		-	28	-	10	22	28		28		28	28
03	Mar-22	58	177	124		100		117		-	138		138	164	188	188		-	138		-	87	-	37	101	97		61		321	149
	DAP	13	4	31		30		31		-	29		31	31	31	15		-	31		-	31	-	17	18	26		30		31	31
04	Apr-22	54	134	133		72	107	131		-	127		147	182	225	229		-	102		-	135	-	50	95	116		64		388	170
	DAP	28	30	29		30	2	30		-	23		30	29	30	22		-	30		-	29	-	20	19	30		27		30	26
05	May-22	74	156	156		60	141	144		-	162		143	148	166	190		-	88		-	110	-	64	100	123		77		209	191
	DAP	31	29	30		31	25	27		-	28		28	31	30	14		-	30		-	31	-	31	12	5		23		31	27
06	Jun-22	61	109	93		54	78	78		101	116		87	105	124	-		-	78		-	107	-	48	78	60		67		150	101
	DAP	26	26	28		25	30	29		4	29		30	30	30	-		-	30		-	30	-	23	12	11		30		30	29
07	Jul-22	58	81	55		29	43	41		45	48		55	56	53	44		-	56		-	60	-	39	98	55		50		86	68
	DAP	22	26	28		31	27	28		11	28		31	30	31	2		-	31		-	31	-	31	5	25		31		31	27
08	Aug-22	36	86	69		26	54	53		44	59		68	73	61	60	42	-	53	51	-	73	66	30	54	61		40	36	88	70
	DAP	22	7	27		29	29	30		27	26		31	27	30	5	24	-	27	13	-	30	13	30	4	22		31	24	31	24
09	Sep-22	31	83	78	121	37	77	64		54	60		74	72	70	47	-	26	66	48	-	95	58	39	33	71		33	52	92	88
	DAP	28	7	30	21	30	11	30		10	29		28	29	30	21	-	18	30	28	-	30	30	29	15	30		30	12	30	25
10	Oct-22	-	96	115	183	63	90	108	290	-	124		112	135	127	109	-	82	123	117	-	120	112	69	76	111	133	35	-	176	121
	DAP	-	14	31	29	27	30	29	10	-	28		31	30	31	24	-	31	31	27	-	31	30	30	16	31	10	31	-	31	31
11	Nov-22	76	138	177	300	94	152	141	275	204	270	297	136	222	243	155	56	65	181	100	-	144	120	46	71	135	133	44	306	313	157
	DAP	15	8	30	29	30	30	30	29	14	25	11	30	30	22	23	26	30	30	25	-	30	29	17	23	30	30	30	30	29	30
12	Dec-22	76	101	173	159	56	140	126	322	283	306	303	121	223	254	140	57	61	135	99	-	168	110	52	59	78	146	74	317	310	160
	DAP	28	2	31	31	29	29	31	28	29	29	31	31	29	24	25	27	31	31	26	-	31	31	26	22	24	31	31	31	30	27

Source : EnvAlert, ESC, MPPCB, DAP = Data Availability Period in Days, # = Data Connectivity Established.

City-wise % deviation in $PM_{2.5}$ value from standard norms

Average Level of $PM_{2.5}$ in Cities : year-2022

Annual Standard (40 µg/m³)

City	$PM_{2.5}$ (µg/m³)	% Deviation from standard value	Rank
Satna	18.2	-54.5 %	1
Khargone	18.8	-52.9 %	2
Rewa*	19.3	-51.8 %	3
Maihar	20.3	-49.3 %	4
Anuppur	28.2	-29.6 %	5
Damoh	30.5	-23.7 %	6
Mandideep	39.2	-2.1 %	7
Dewas*	41.7	+4.2 %	8
Indore	43.1	+7.6 %	9
Ratlam	43.7	+9.2 %	10
Narsinghpur	44.6	+11.5 %	11
Sagar*	45.9	+14.6 %	12
Pithampur	46.2	+15.6 %	13
Betul	48.0	+19.9 %	14
Ujjain	54.4	+36.1 %	15
Jabalpur	54.5	+36.3 %	16
Katni*	61.7	+54.3 %	17
Bhopal*	63.6	+59.0 %	18
Singrauli*	96.0	+139.9 %	19
Gwalior*	107.6	+169.1 %	20

* Average Value is Shown for cities having >1 CAAQMS

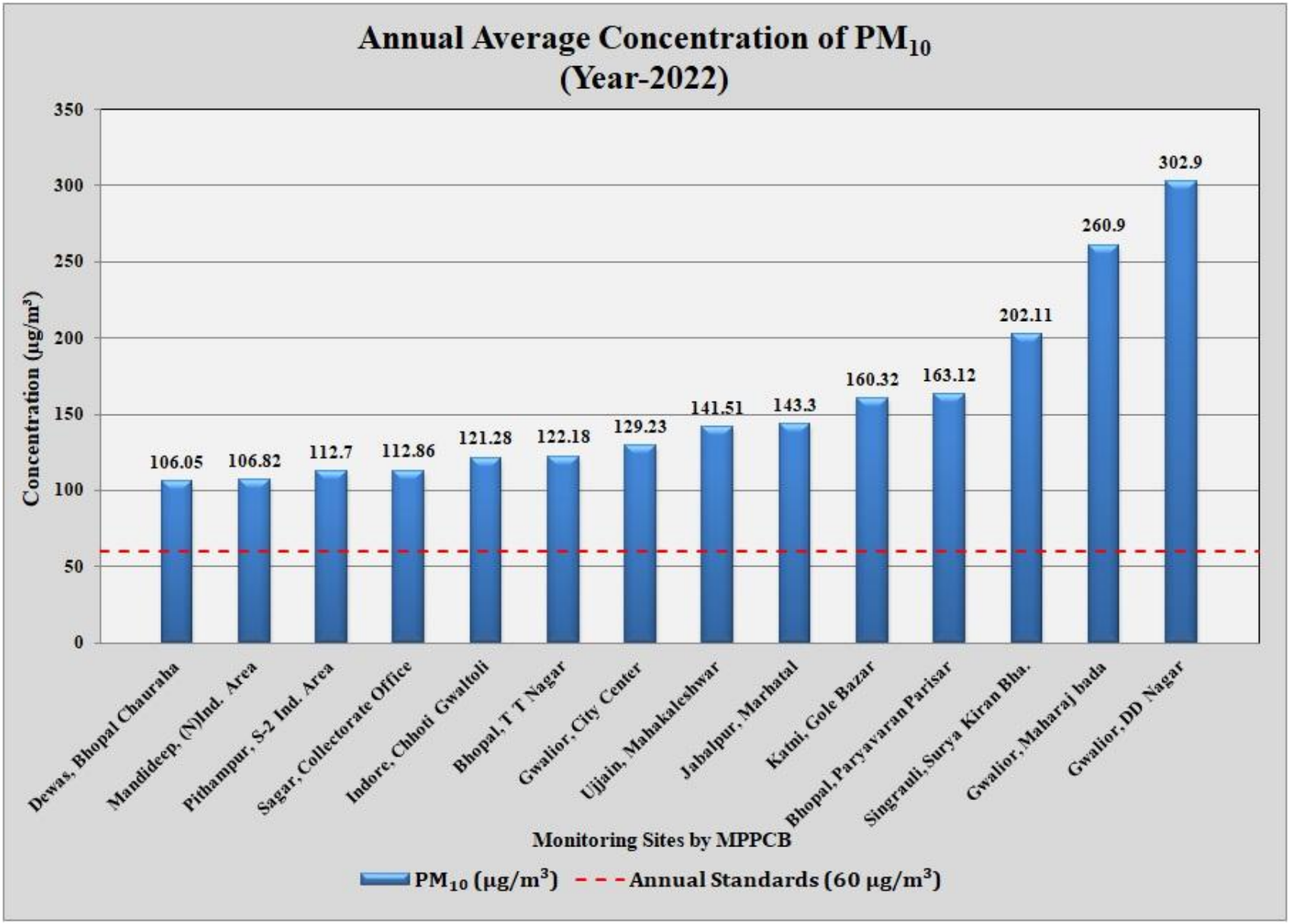
City-wise % deviation in PM_{10} value from standard norms

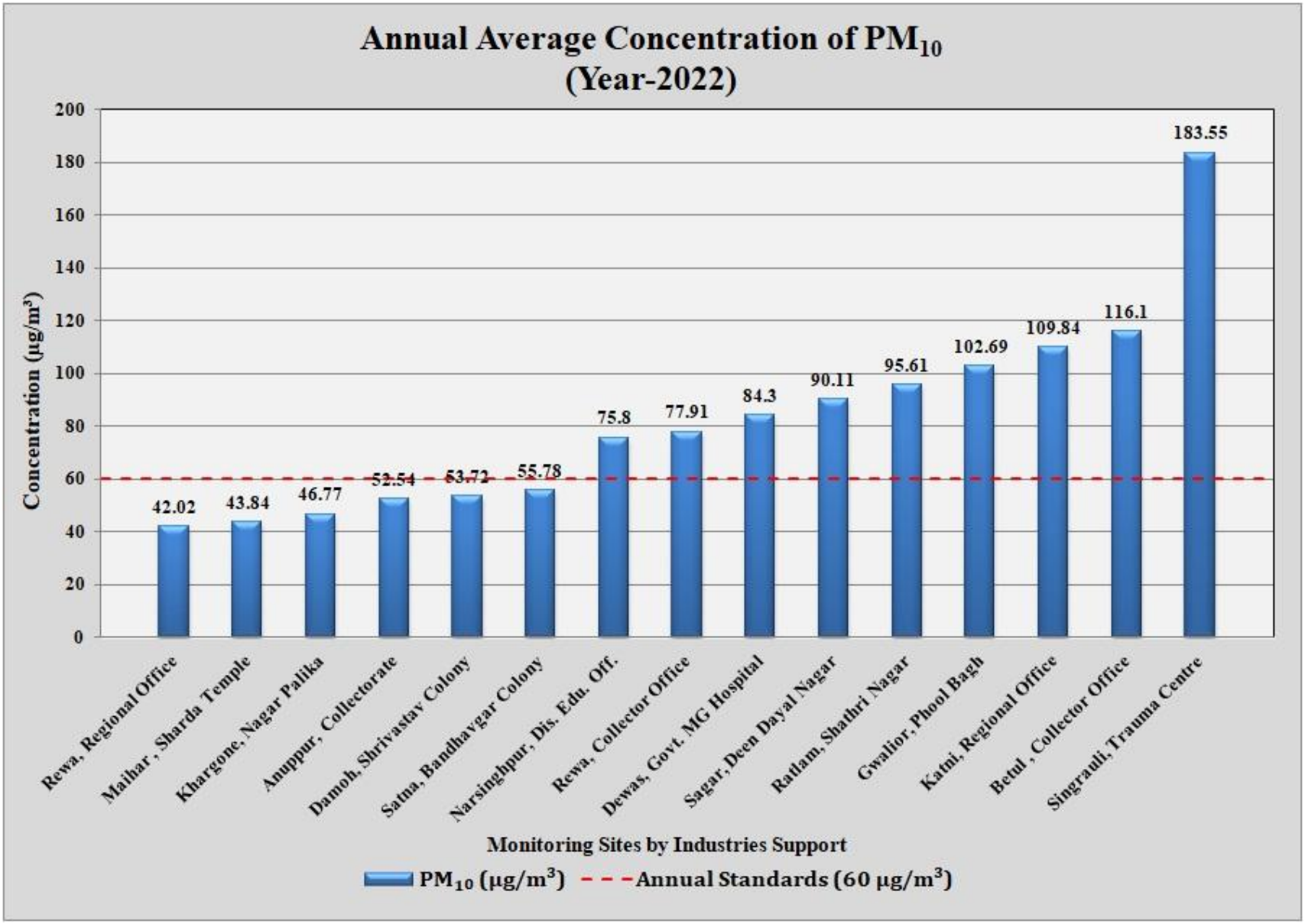
Average Level of PM_{10} in Cities : year-2022

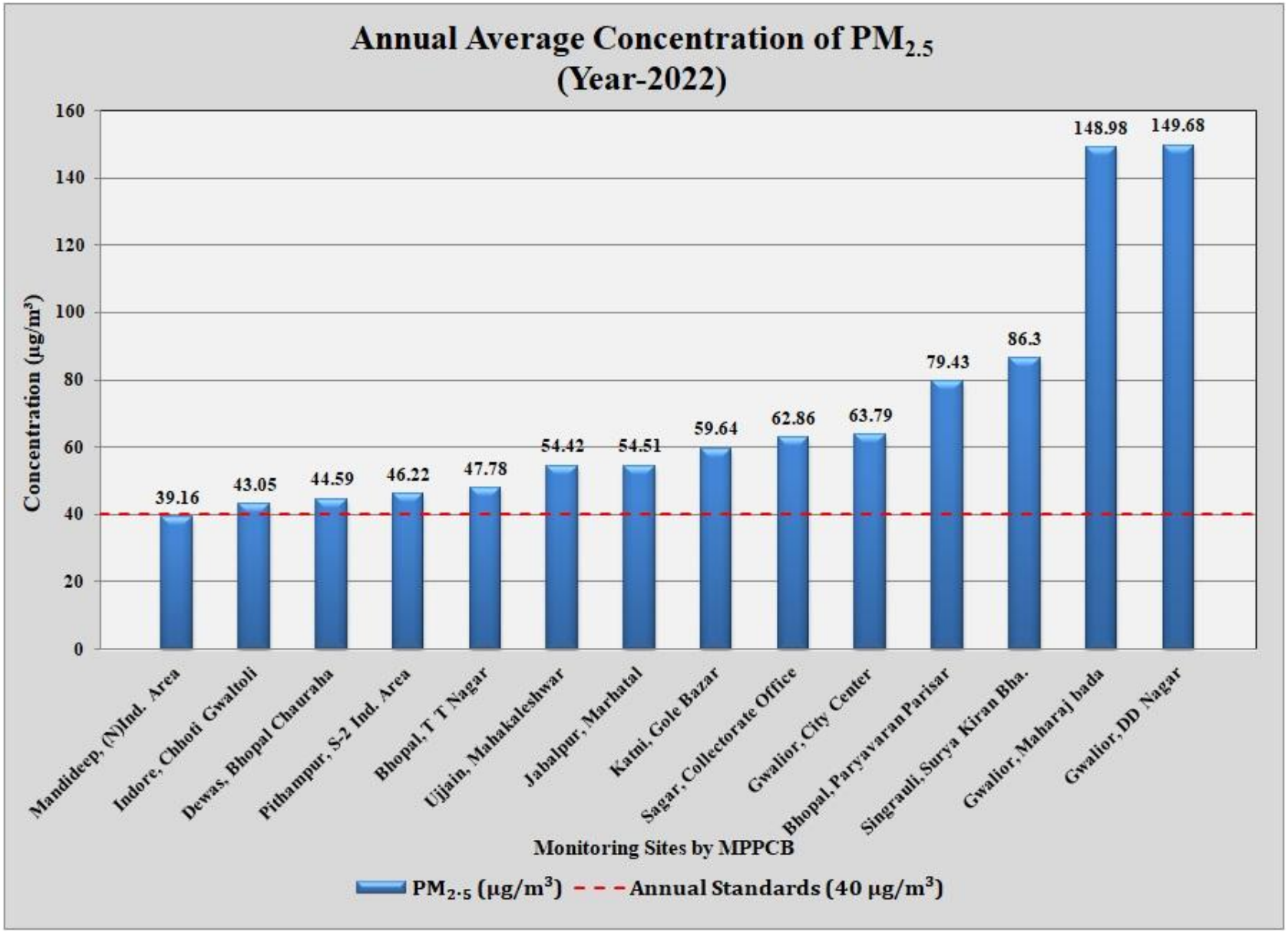
Annual Standard (60 µg/m³)

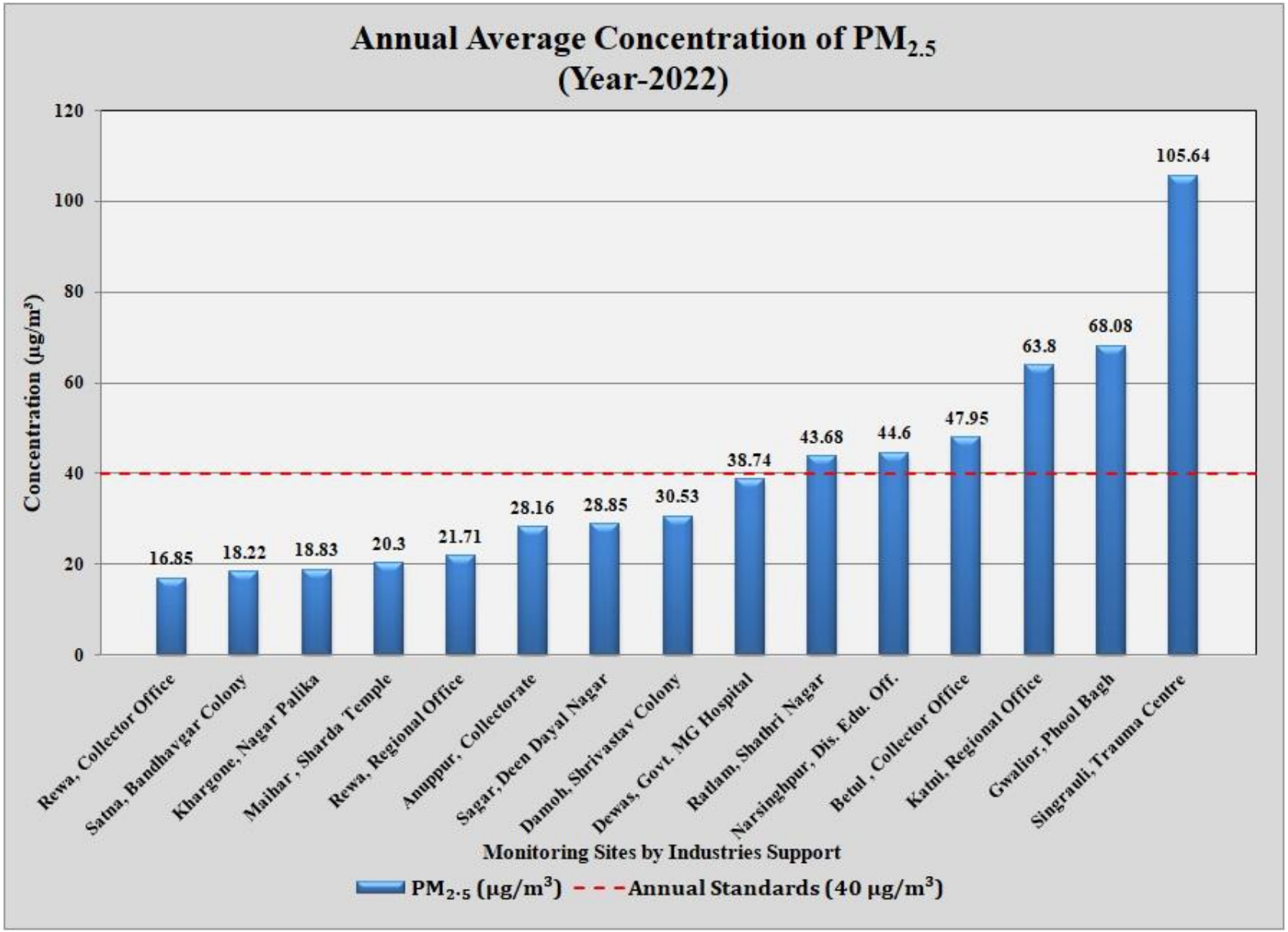
City	PM_{10} (µg/m³)	% Deviation from standard value	Rank
Maihar	43.8	-26.9	1
Khargone	46.8	-22.1	2
Anuppur	52.5	-12.4	3
Damoh	53.7	-10.5	4
Satna	55.8	-7.0	5
Rewa*	60.0	-0.1	6
Narsinghpur	75.8	+26.3	7
Dewas*	95.2	+58.6	8
Ratlam	95.6	+59.4	9
Sagar*	101.5	+69.1	10
Mandideep	106.8	+78.0	11
Pithampur	112.7	+87.8	12
Betul	116.1	+93.5	13
Indore	121.3	+102.1	14
Katni*	135.1	+125.1	15
Ujjain	141.5	+135.9	16
Bhopal*	142.7	+137.8	17
Jabalpur	143.3	+138.8	18
Singrauli*	192.8	+221.4	19
Gwalior*	198.9	+231.6	20

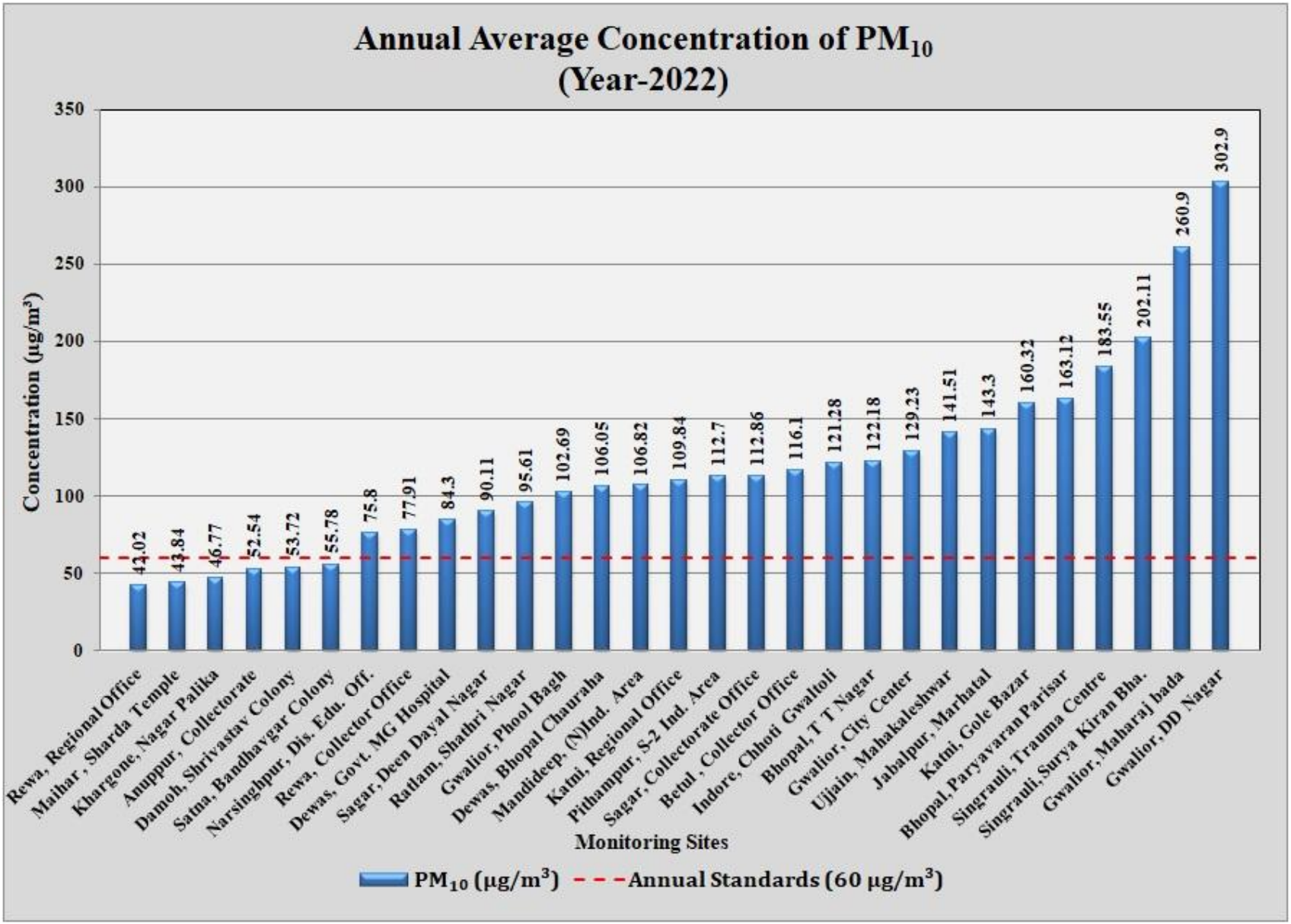
* Average Value is Shown for cities having >1 CAAQMS


Annual Average Concentration of PM10
(Year-2022)
Concentration (µg/m³)
350
300
250
200
150
100
50
0
106.05
106.82
112.7
112.86
121.28
122.18
129.23
141.51
143.3
160.32
163.12
202.11
260.9
302.9
Dewas, Bhopal Chauraha
Mandideep, (N)Ind. Area
Pithampur, S-2 Ind. Area
Sagar, Collectorate Office
Indore, Chhoti Gwaltoli
Bhopal, T T Nagar
Gwalior, City Center
Ujjain, Mahakaleshwar
Jabalpur, Marhatal
Katni, Gole Bazar
Bhopal, Paryavaran Parisar
Singrauli, Surya Kiran Bha.
Gwalior, Maharaj bada
Gwalior, DD Nagar
Monitoring Sites by MPPCB
PM10 (µg/m³)
Annual Standards (60 µg/m³)


Annual Average Concentration of PM10
(Year-2022)
Concentration (µg/m³)
200
180
160
140
120
100
80
60
40
20
0
42.02
43.84
46.77
52.54
53.72
55.78
75.8
77.91
84.3
90.11
95.61
102.69
109.84
116.1
183.55
Rewa, Regional Office
Maihar , Sharda Temple
Khargone, Nagar Palika
Anuppur, Collectorate
Damoh, Shrivastav Colony
Satna, Bandhavgar Colony
Narsinghpur, Dis. Edu. Off.
Rewa, Collector Office
Dewas, Govt. MG Hospital
Sagar, Deen Dayal Nagar
Ratlam, Shathri Nagar
Gwalior, Phool Bagh
Katni, Regional Office
Betul , Collector Office
Singrauli, Trauma Centre
Monitoring Sites by Industries Support
PM10 (µg/m³)
Annual Standards (60 µg/m³)


Annual Average Concentration of PM2.5
(Year-2022)
Concentration (µg/m³)
160
140
120
100
80
60
40
20
0
39.16
43.05
44.59
46.22
47.78
54.42
54.51
59.64
62.86
63.79
79.43
86.3
148.98
149.68
Mandideep, (N)Ind. Area
Indore, Chhoti Gwaltoli
Dewas, Bhopal Chauraha
Pithampur, S-2 Ind. Area
Bhopal, T T Nagar
Ujjain, Mahakaleshwar
Jabalpur, Marhatal
Katni, Gole Bazar
Sagar, Collectorate Office
Gwalior, City Center
Bhopal, Paryavaran Parisar
Singrauli, Surya Kiran Bha.
Gwalior, Maharaj bada
Gwalior, DD Nagar
Monitoring Sites by MPPCB
PM2.5 (µg/m³)
Annual Standards (40 µg/m³)


Annual Average Concentration of PM2.5
(Year-2022)
Concentration (µg/m³)
120
100
80
60
40
20
0
16.85
18.22
18.83
20.3
21.71
28.16
28.85
30.53
38.74
43.68
44.6
47.95
63.8
68.08
105.64
Rewa, Collector Office
Satna, Bandhavgar Colony
Khargone, Nagar Palika
Maihar , Sharda Temple
Rewa, Regional Office
Anuppur, Collectorate
Sagar, Deen Dayal Nagar
Damoh, Shrivastav Colony
Dewas, Govt. MG Hospital
Ratlam, Shathri Nagar
Narsinghpur, Dis. Edu. Off.
Betul , Collector Office
Katni, Regional Office
Gwalior, Phool Bagh
Singrauli, Trauma Centre
Monitoring Sites by Industries Support
PM2.5 (µg/m³)
Annual Standards (40 µg/m³)


Annual Average Concentration of PM10
(Year-2022)
Concentration (µg/m³)
350
300
250
200
150
100
50
0
42.02
43.84
46.77
52.54
53.72
55.78
75.8
77.91
84.3
90.11
95.61
102.69
106.05
106.82
109.84
112.7
112.86
116.1
121.28
122.18
129.23
141.51
143.3
160.32
163.12
183.55
202.11
260.9
302.9
Rewa, Regional Office
Maihar , Sharda Temple
Khargone, Nagar Palika
Anuppur, Collectorate
Damoh, Shrivastav Colony
Satna, Bandhavgar Colony
Narsinghpur, Dis. Edu. Off.
Rewa, Collector Office
Dewas, Govt. MG Hospital
Sagar, Deen Dayal Nagar
Ratlam, Shathri Nagar
Gwalior, Phool Bagh
Dewas, Bhopal Chauraha
Mandideep, (N)Ind. Area
Katni, Regional Office
Pithampur, S-2 Ind. Area
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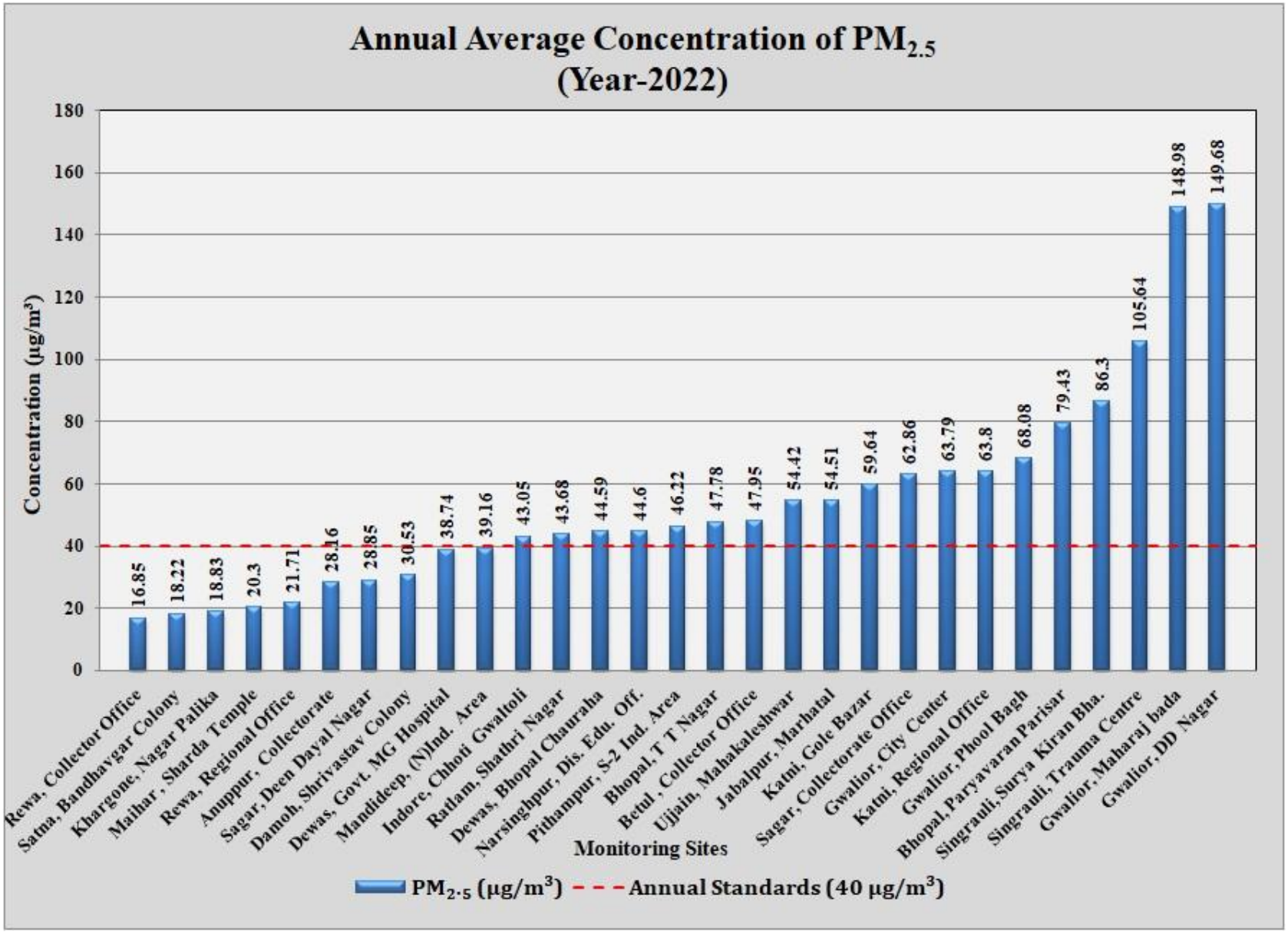
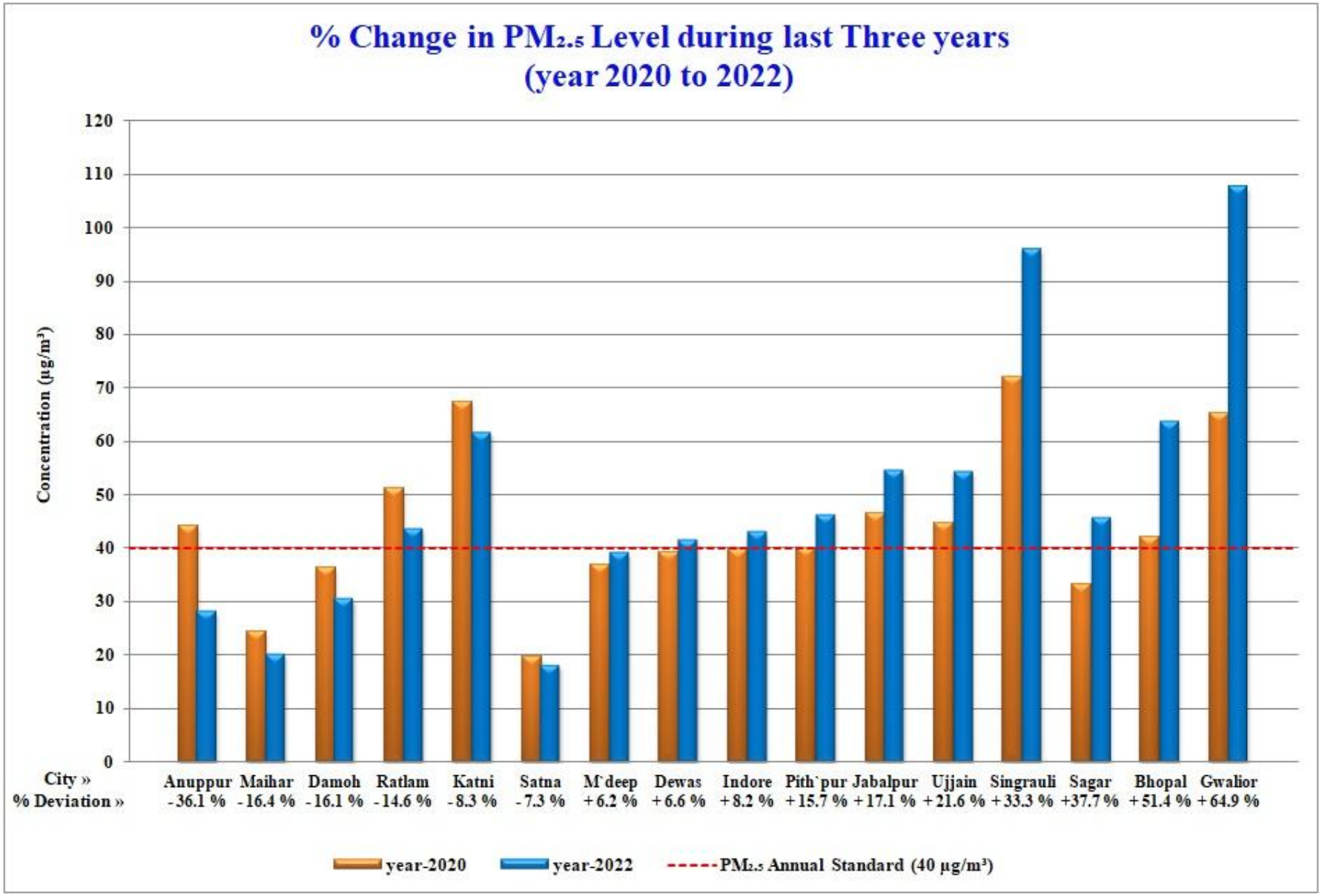
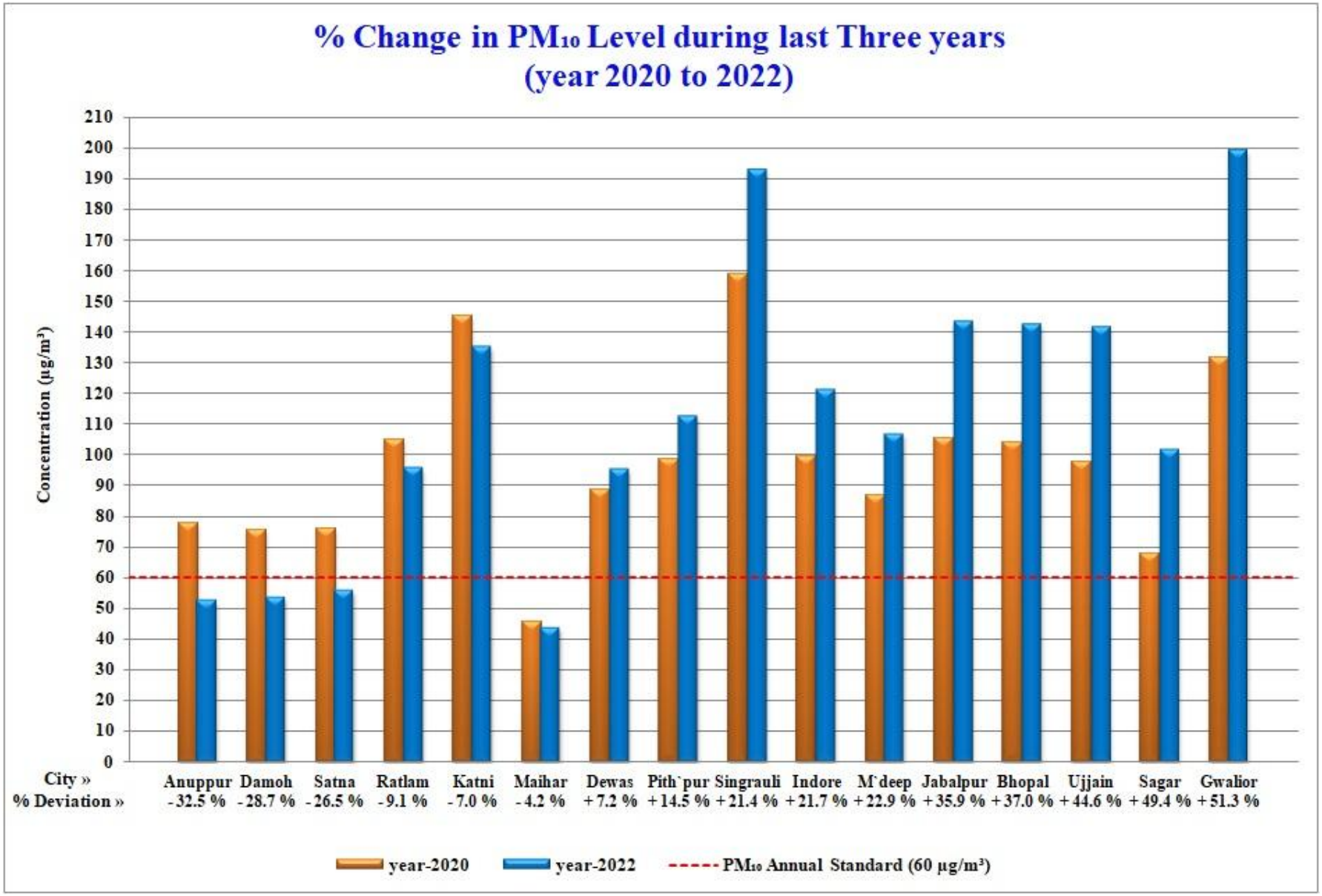
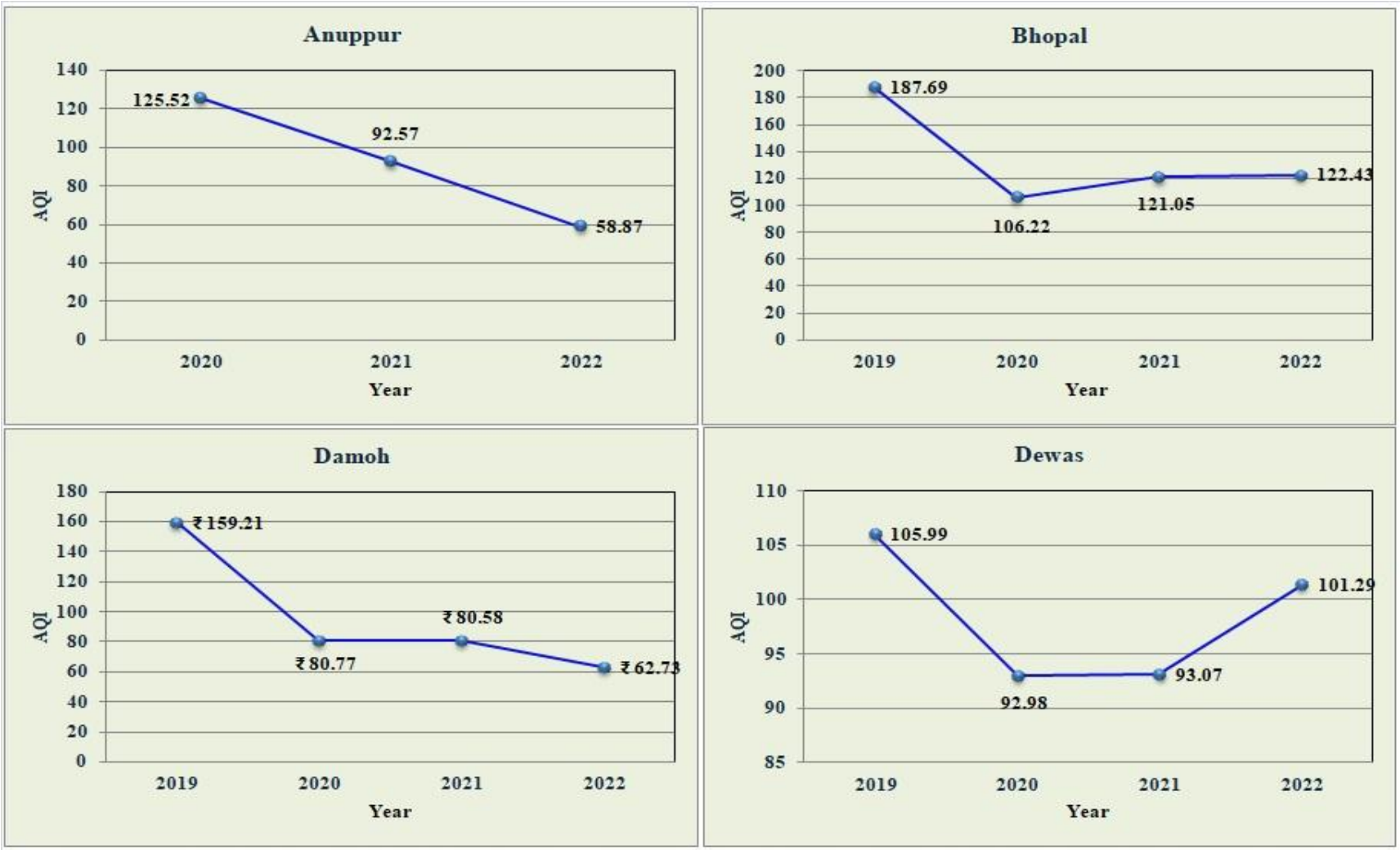
Betul , Collector Office
Indore, Chhoti Gwaltoli
Bhopal, T T Nagar
Gwalior, City Center
Ujjain, Mahakaleshwar
Jabalpur, Marhatal
Katni, Gole Bazar
Bhopal, Paryavaran Parisar
Singrauli, Trauma Centre
Singrauli, Surya Kiran Bha.
Gwalior, Maharaj bada
Gwalior, DD Nagar
Monitoring Sites
PM10 (µg/m³)
Annual Standards (60 µg/m³)


Annual Average Concentration of PM2.5
(Year-2022)
Concentration (µg/m³)
0
20
40
60
80
100
120
140
160
180
16.85
18.22
18.83
20.3
21.71
28.16
28.85
30.53
38.74
39.16
43.05
43.68
44.59
44.6
46.22
47.78
47.95
54.42
54.51
59.64
62.86
63.79
63.8
68.08
79.43
86.3
105.64
148.98
149.68
Rewa, Collector Office
Satna, Bandhavgar Colony
Khargone, Nagar Palika
Maihar , Sharda Temple
Rewa, Regional Office
Anuppur, Collectorate
Sagar, Deen Dayal Nagar
Damoh, Shrivastav Colony
Dewas, Govt. MG Hospital
Mandideep, (N)Ind. Area
Indore, Chhoti Gwaltoli
Ratlam, Shathri Nagar
Dewas, Bhopal Chauraha
Narsinghpur, Dis. Edu. Off.
Pithampur, S-2 Ind. Area
Bhopal, T T Nagar
Betul , Collector Office
Ujjain, Mahakaleshwar
Jabalpur, Marhatal
Katni, Gole Bazar
Sagar, Collectorate Office
Gwalior, City Center
Katni, Regional Office
Gwalior, Phool Bagh
Bhopal, Paryavaran Parisar
Singrauli, Surya Kiran Bha.
Singrauli, Trauma Centre
Gwalior, Maharaj bada
Gwalior, DD Nagar
Monitoring Sites
PM2.5 (µg/m³)
Annual Standards (40 µg/m³)


% Change in PM2.5 Level during last Three years
(year 2020 to 2022)
Concentration (µg/m³)
120
110
100
90
80
70
60
50
40
30
20
10
0
City »
% Deviation »
Anuppur -36.1 %
Maihar -16.4 %
Damoh -16.1 %
Ratlam -14.6 %
Katni -8.3 %
Satna -7.3 %
M`deep +6.2 %
Dewas +6.6 %
Indore +8.2 %
Pith`pur +15.7 %
Jabalpur +17.1 %
Ujjain +21.6 %
Singrauli +33.3 %
Sagar +37.7 %
Bhopal +51.4 %
Gwalior +64.9 %
year-2020
year-2022
PM2.5 Annual Standard (40 µg/m³)

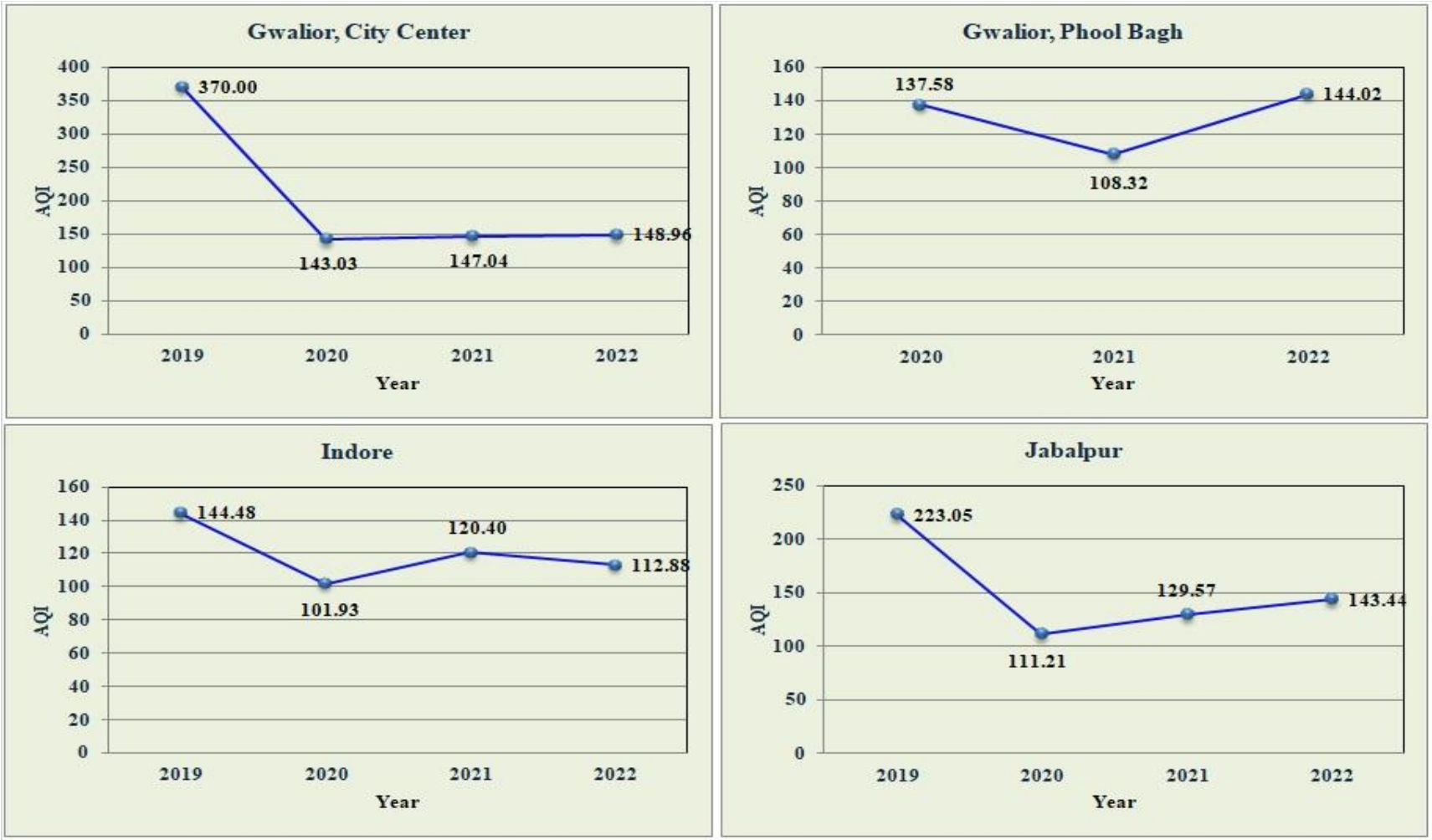

% Change in PM10 Level during last Three years
(year 2020 to 2022)
Concentration (µg/m³)
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
City »
% Deviation »
Anuppur -32.5 %
Damoh -28.7 %
Satna -26.5 %
Ratlam -9.1 %
Katni -7.0 %
Maihar -4.2 %
Dewas +7.2 %
Pith`pur +14.5 %
Singrauli +21.4 %
Indore +21.7 %
M`deep +22.9 %
Jabalpur +35.9 %
Bhopal +37.0 %
Ujjain +44.6 %
Sagar +49.4 %
Gwalior +51.3 %
year-2020
year-2022
PM10 Annual Standard (60 µg/m³)

City-wise AQI comparative trend during 2019-2022

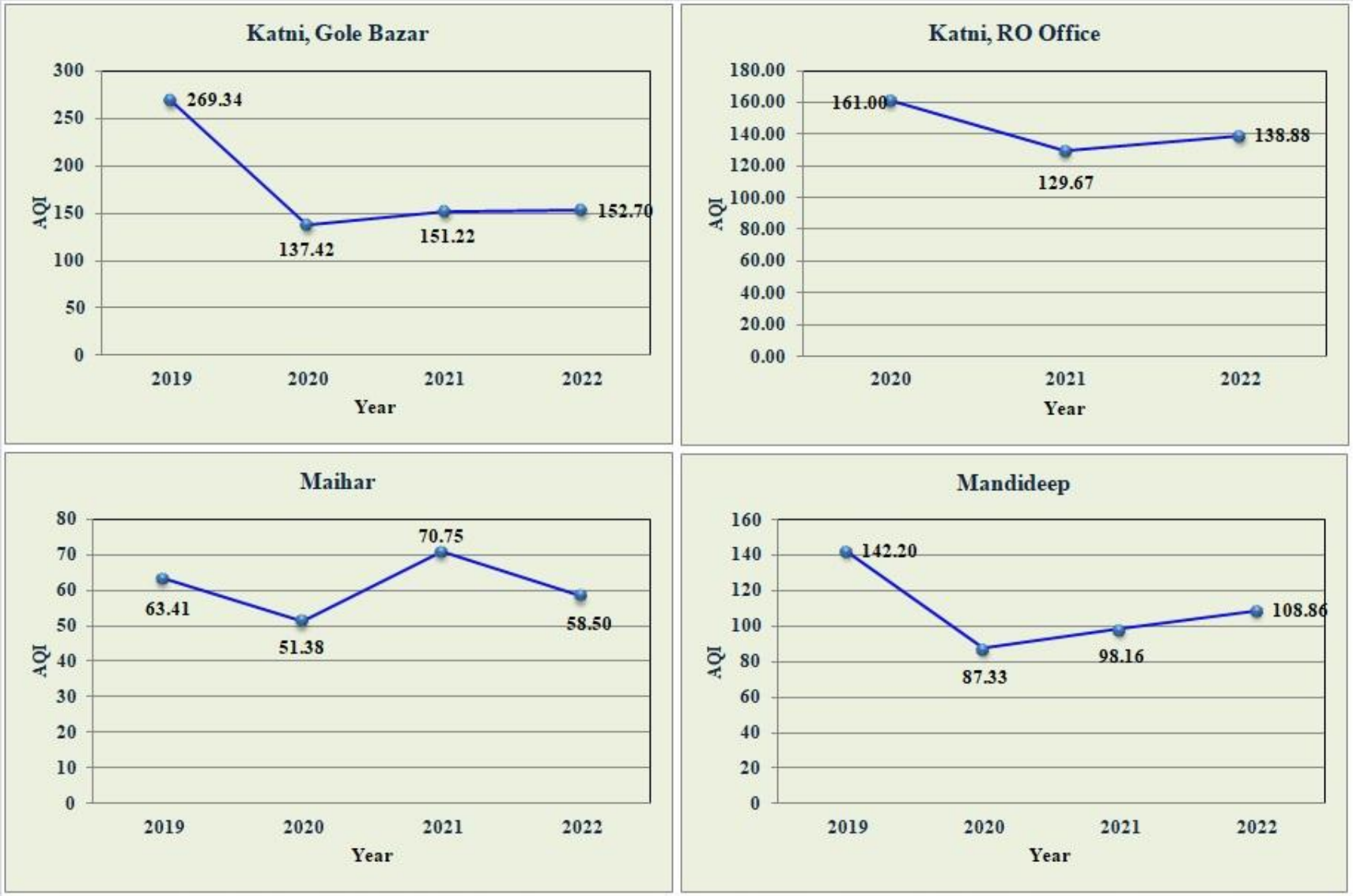


Good » (0-50) Satisfactory » (50-100) Moderate » (101-200) Poor » (201-300) Very Poor » (301-400) Severe » (401- 500)

City-wise AQI comparative trend during 2019-2022

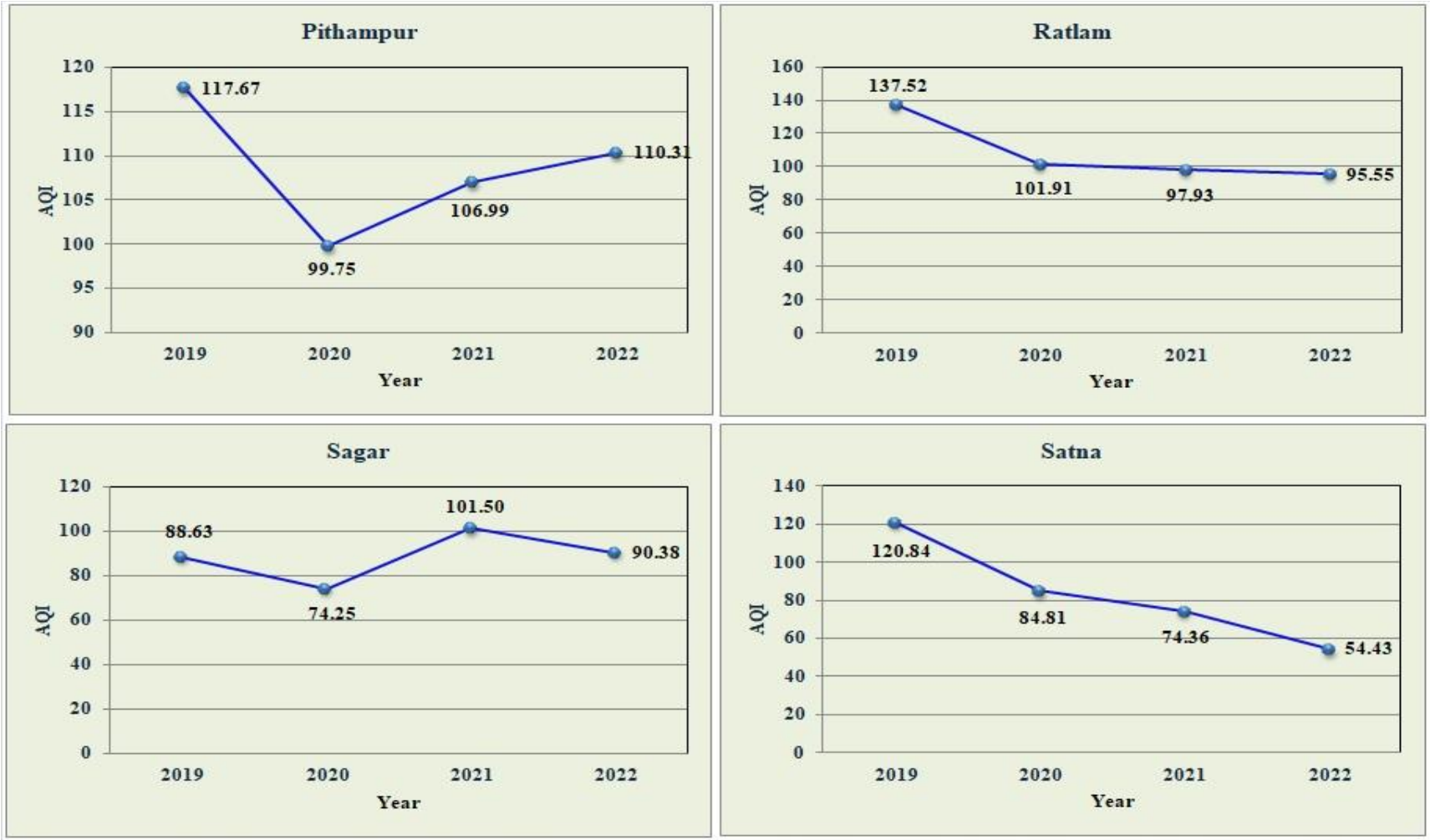


Good » (0-50) Satisfactory » (50-100) Moderate » (101-200) Poor » (201-300) Very Poor » (301-400) Severe » (401- 500)



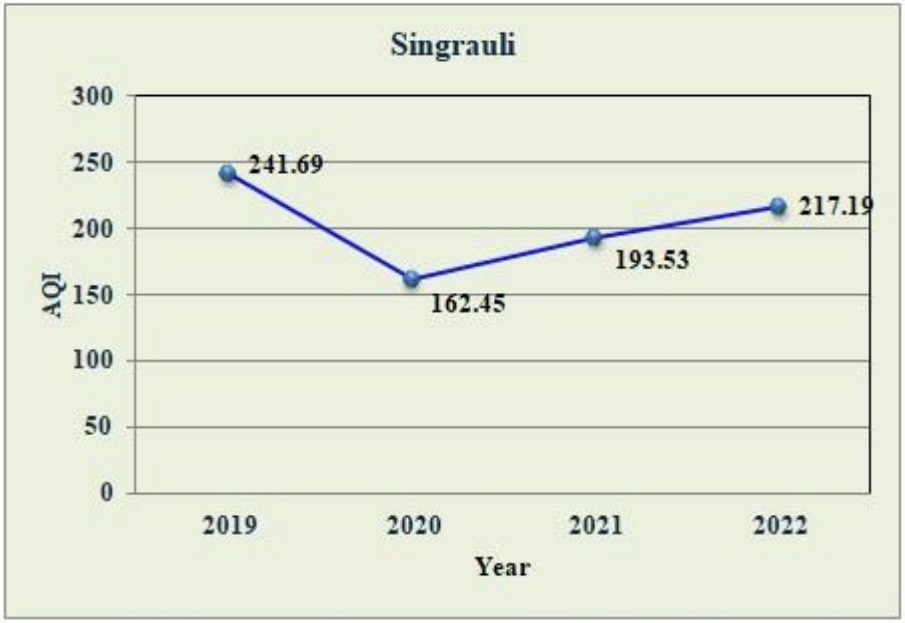
Good » (0-50) Satisfactory » (50-100) Moderate » (101-200) Poor » (201-300) Very Poor » (301-400) Severe » (401- 500)

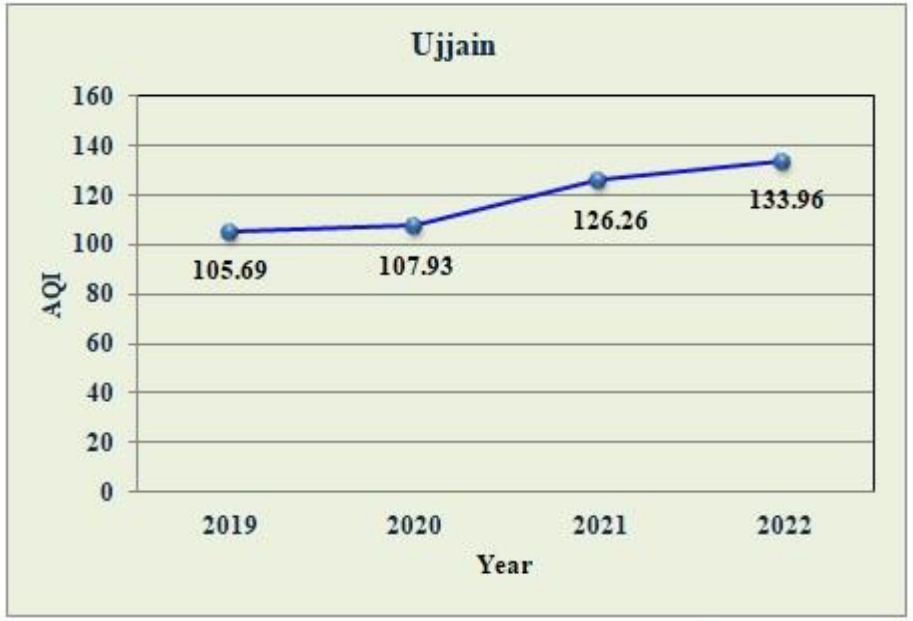
City-wise AQI comparative trend during 2019-2022



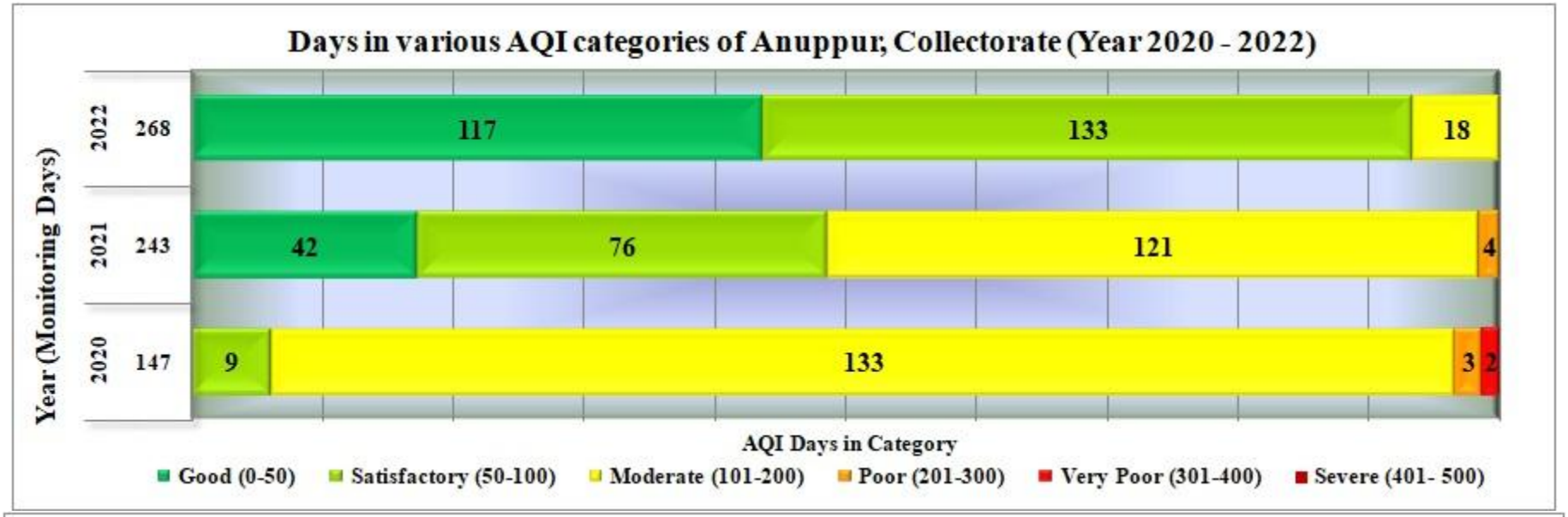
Good » (0-50) Satisfactory » (50-100) Moderate » (101-200) Poor » (201-300) Very Poor » (301-400) Severe » (401- 500)

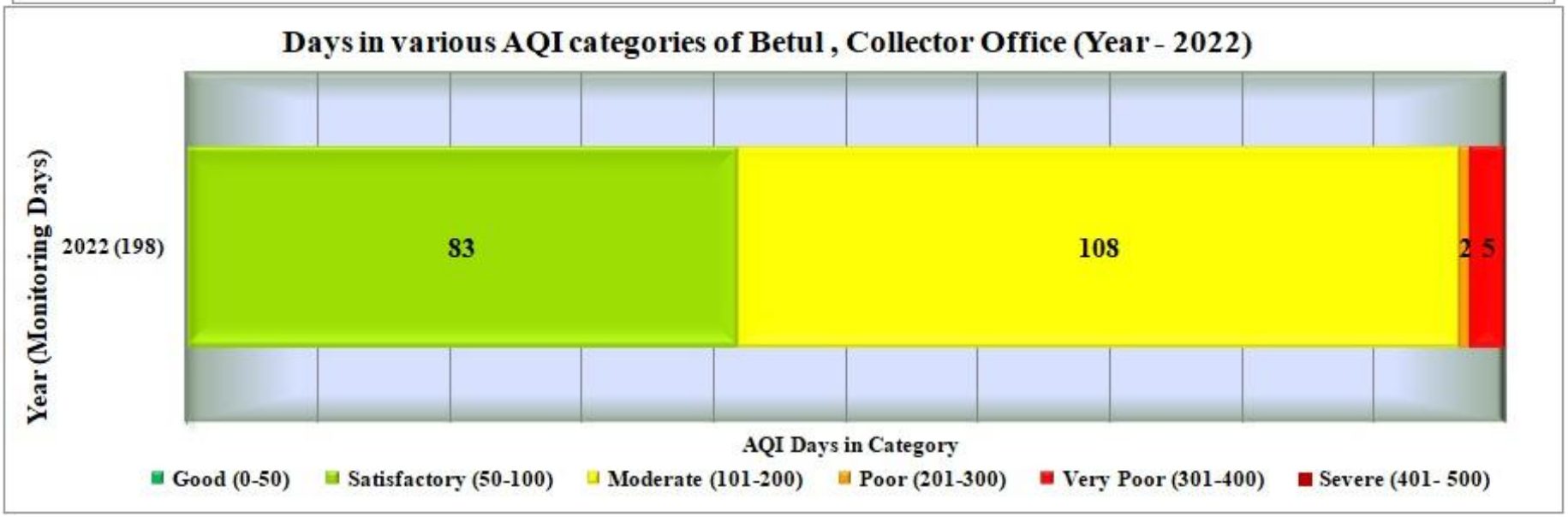
City-wise AQI comparative trend during 2019-2022

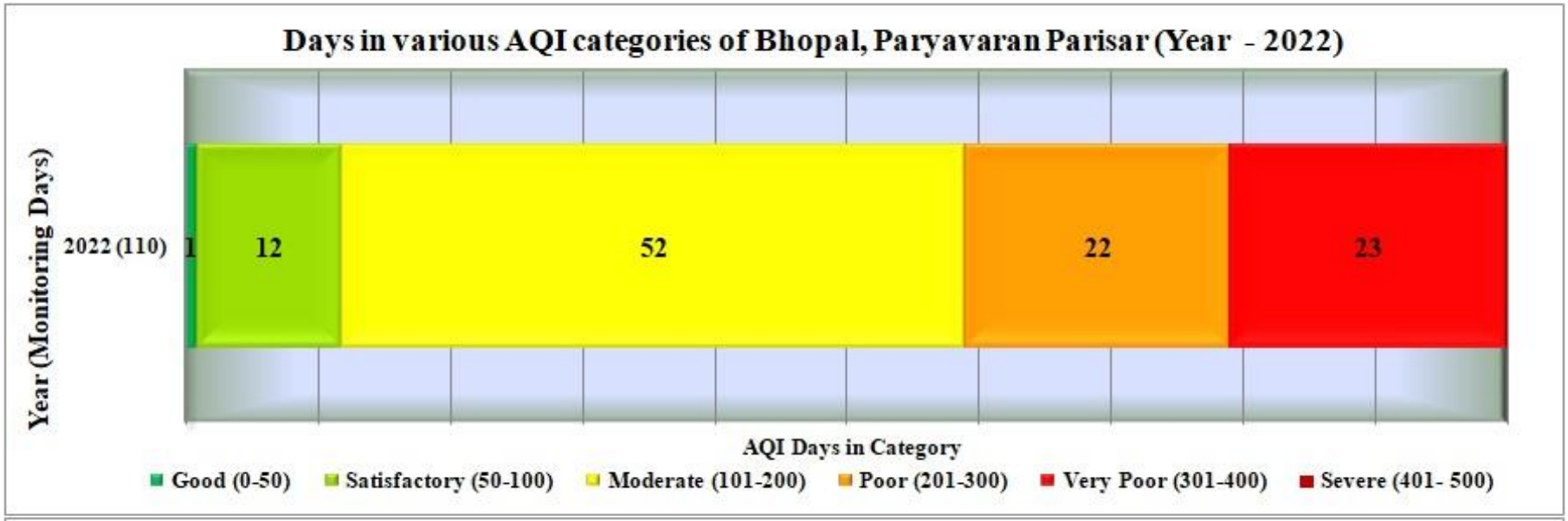


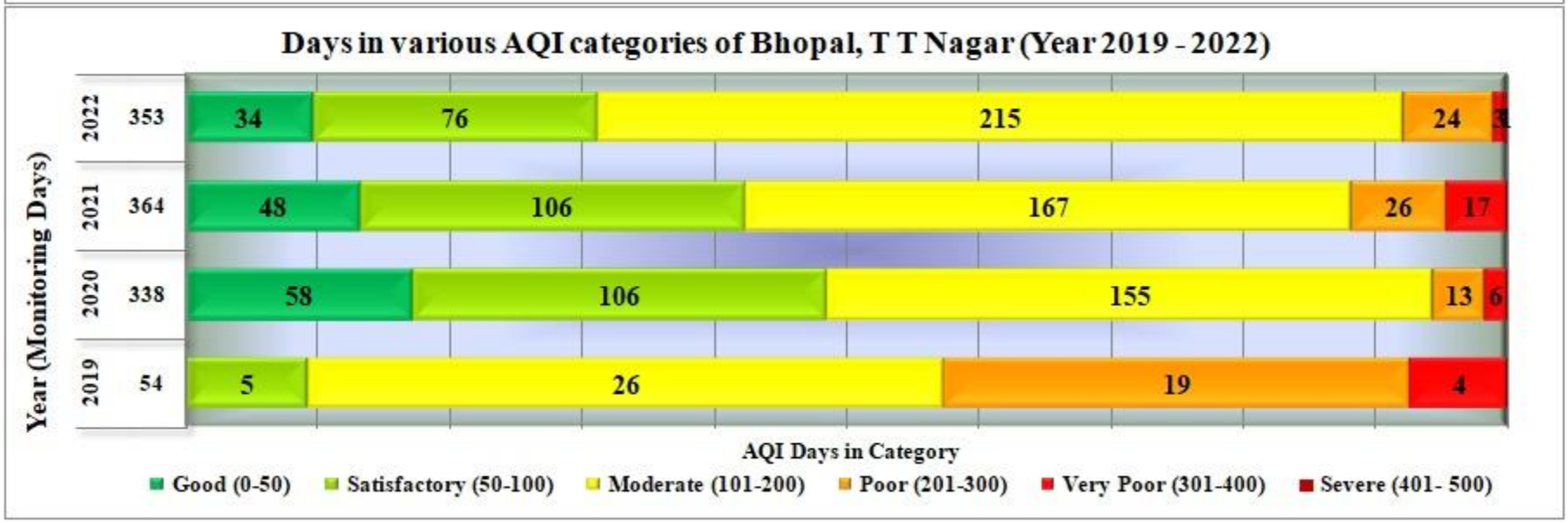


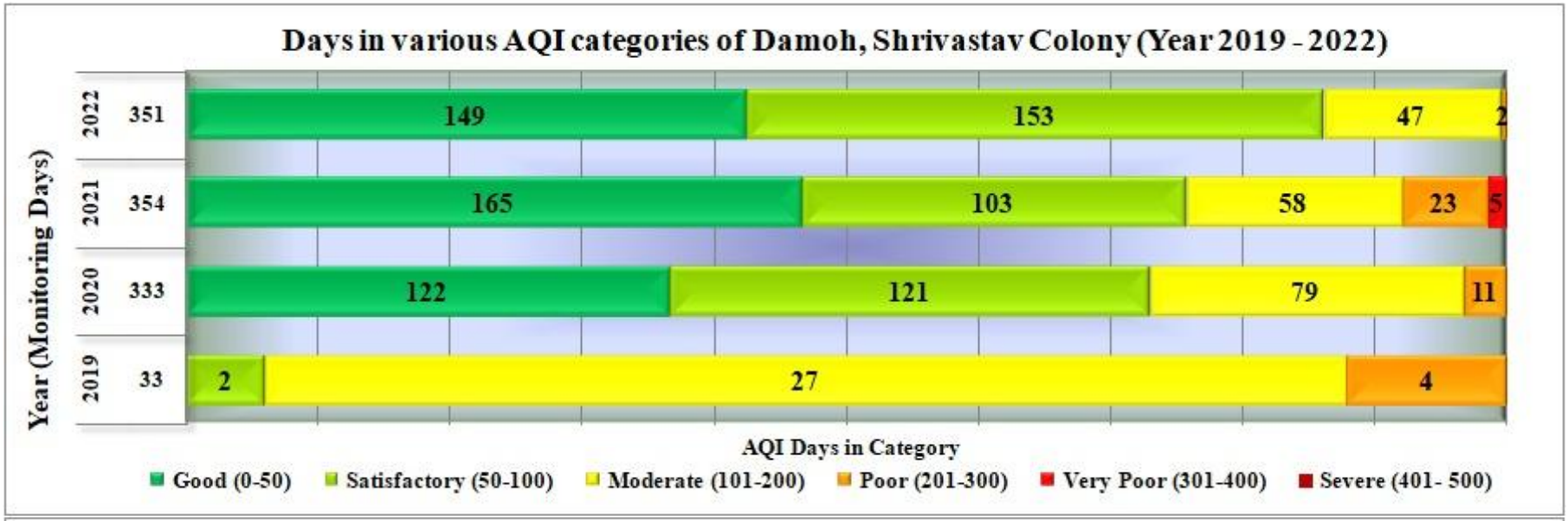
Good » (0-50) Satisfactory » (50-100) Moderate » (101-200) Poor » (201-300) Very Poor » (301-400) Severe » (401- 500)

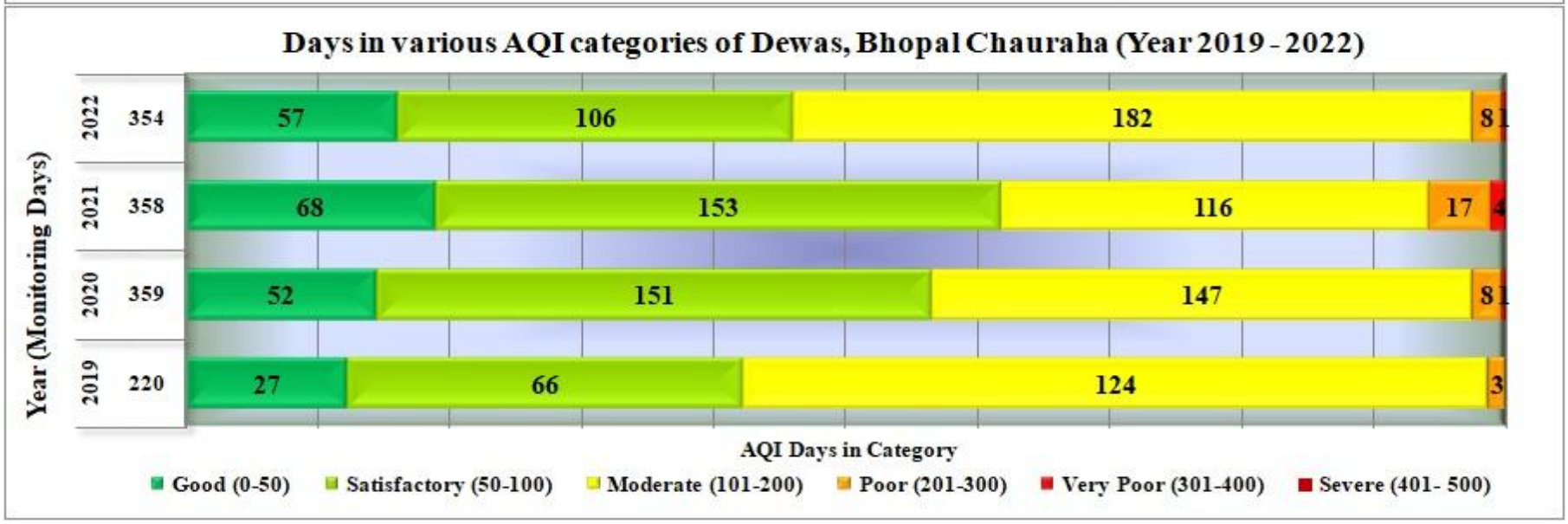

Days in various AQI categories of Anuppur, Collectorate (Year 2020 - 2022)
Year (Monitoring Days)
2022
268
117
133
18
2021
243
42
76
121
4
2020
147
9
133
3
2
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

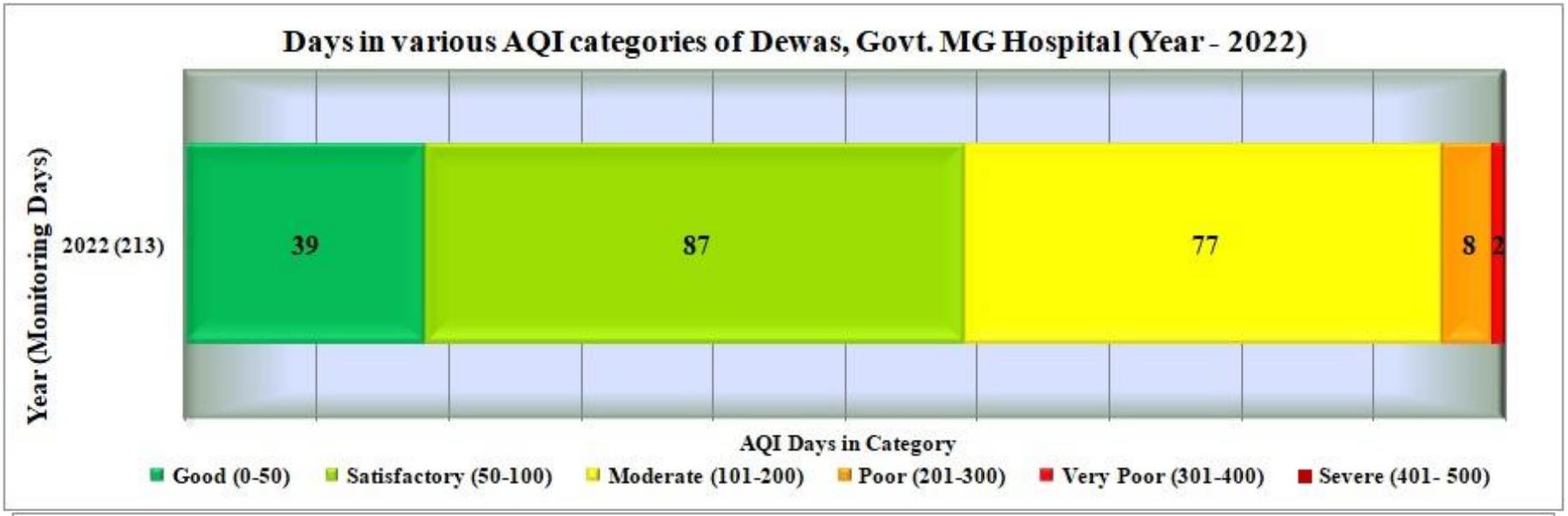

Days in various AQI categories of Betul , Collector Office (Year - 2022)
Year (Monitoring Days)
2022 (198)
83
108
2
5
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

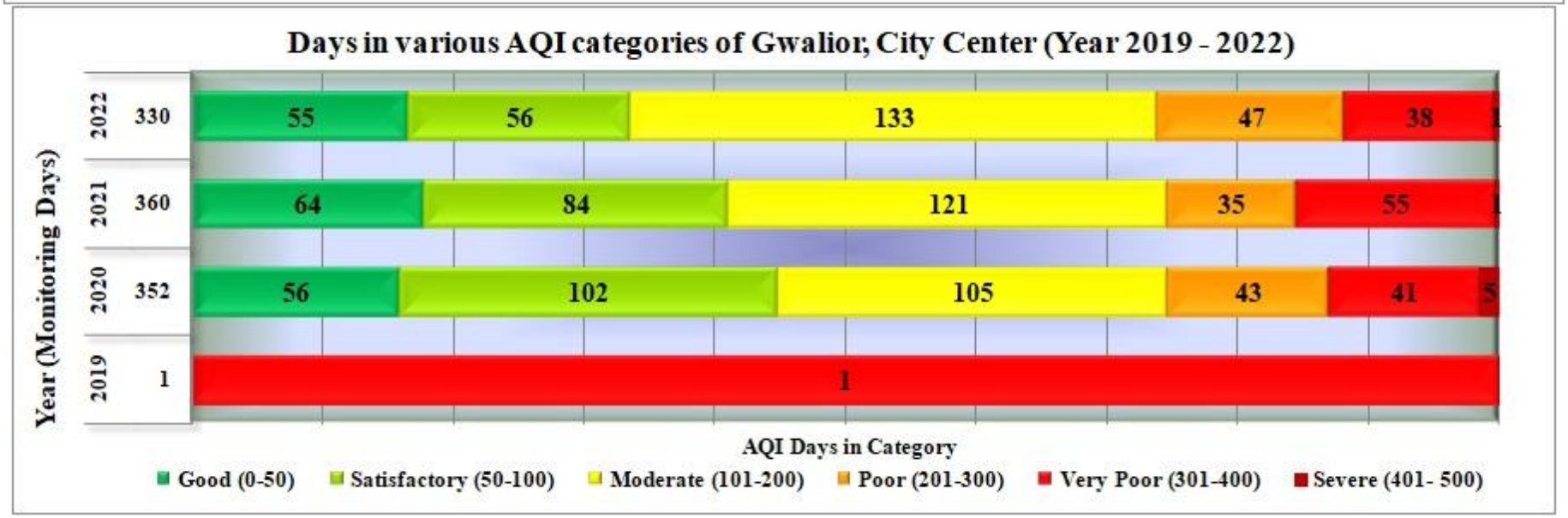

Days in various AQI categories of Bhopal, Paryavaran Parisar (Year - 2022)
Year (Monitoring Days)
2022 (110)
1
12
52
22
23
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

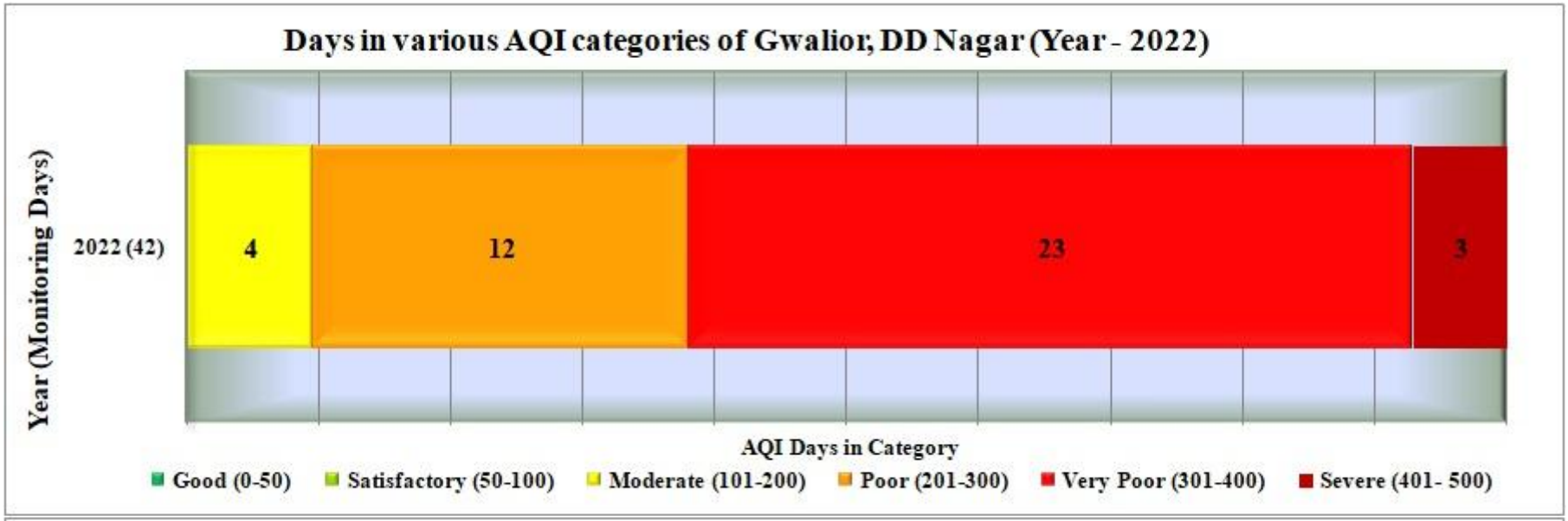

Days in various AQI categories of Bhopal, T T Nagar (Year 2019 - 2022)
Year (Monitoring Days)
2022
353
34
76
215
24
2021
364
48
106
167
26
17
2020
338
58
106
155
13
6
2019
54
5
26
19
4
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

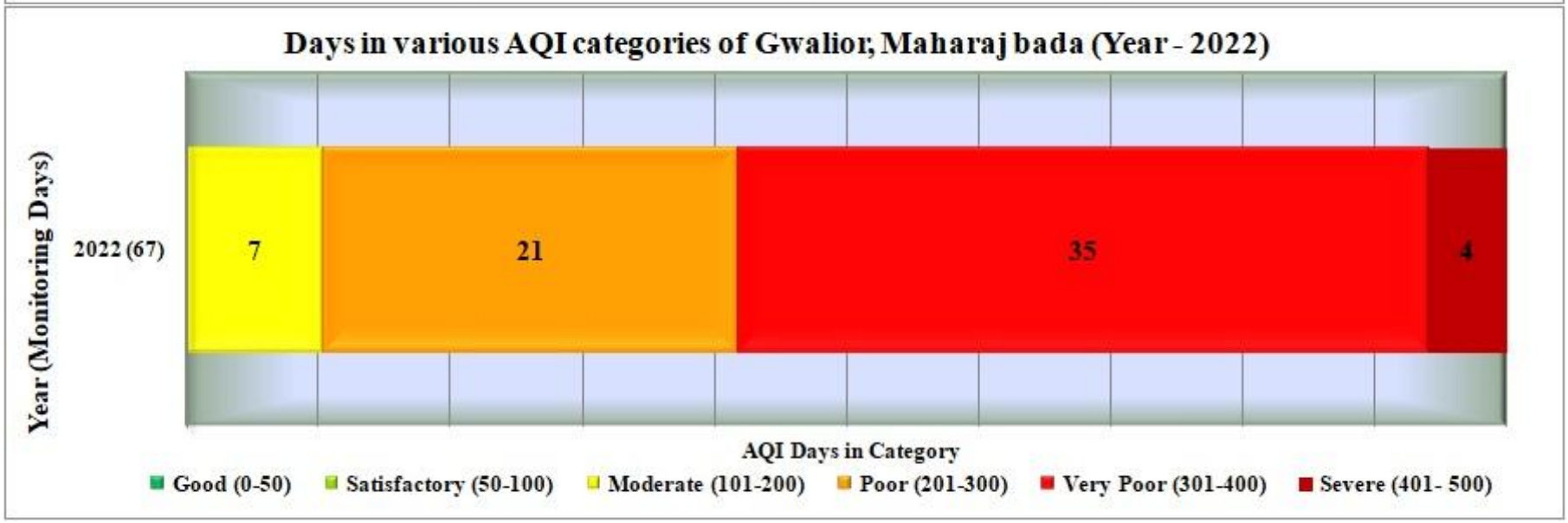

Days in various AQI categories of Damoh, Shrivastav Colony (Year 2019 - 2022)
Year (Monitoring Days)
2022
351
149
153
47
2
2021
354
165
103
58
23
5
2020
333
122
121
79
11
2019
33
2
27
4
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

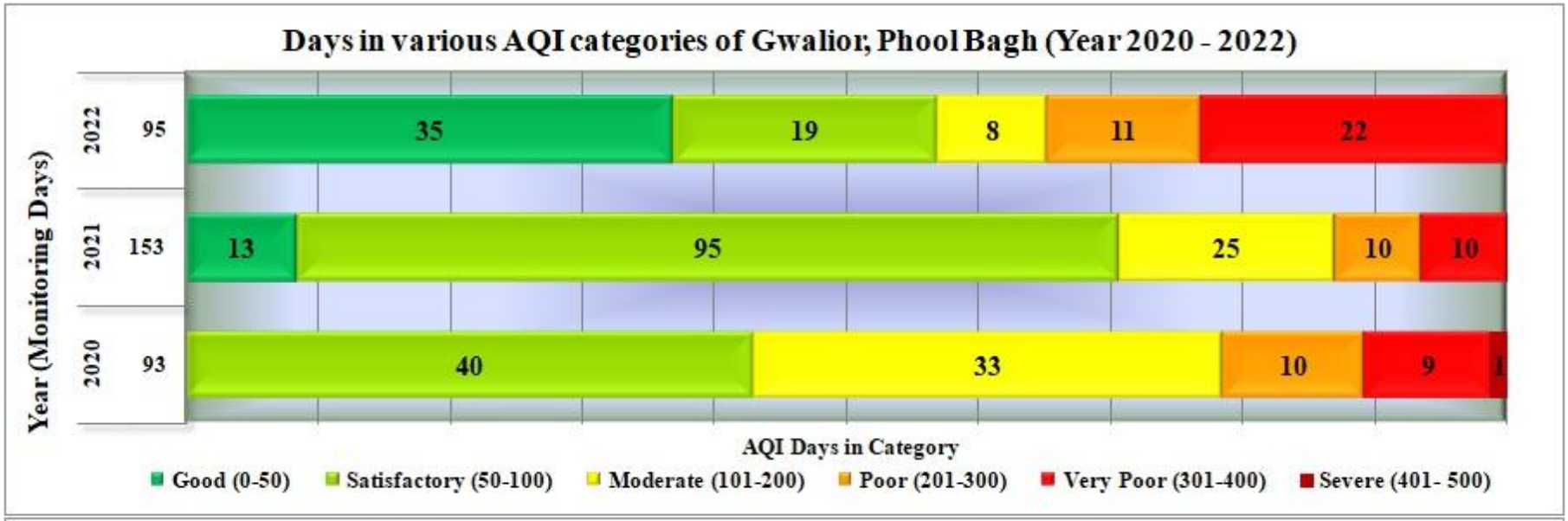

Days in various AQI categories of Dewas, Bhopal Chauraha (Year 2019 - 2022)
Year (Monitoring Days)
2022
354
57
106
182
8
1
2021
358
68
153
116
17
4
2020
359
52
151
147
8
1
2019
220
27
66
124
3
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

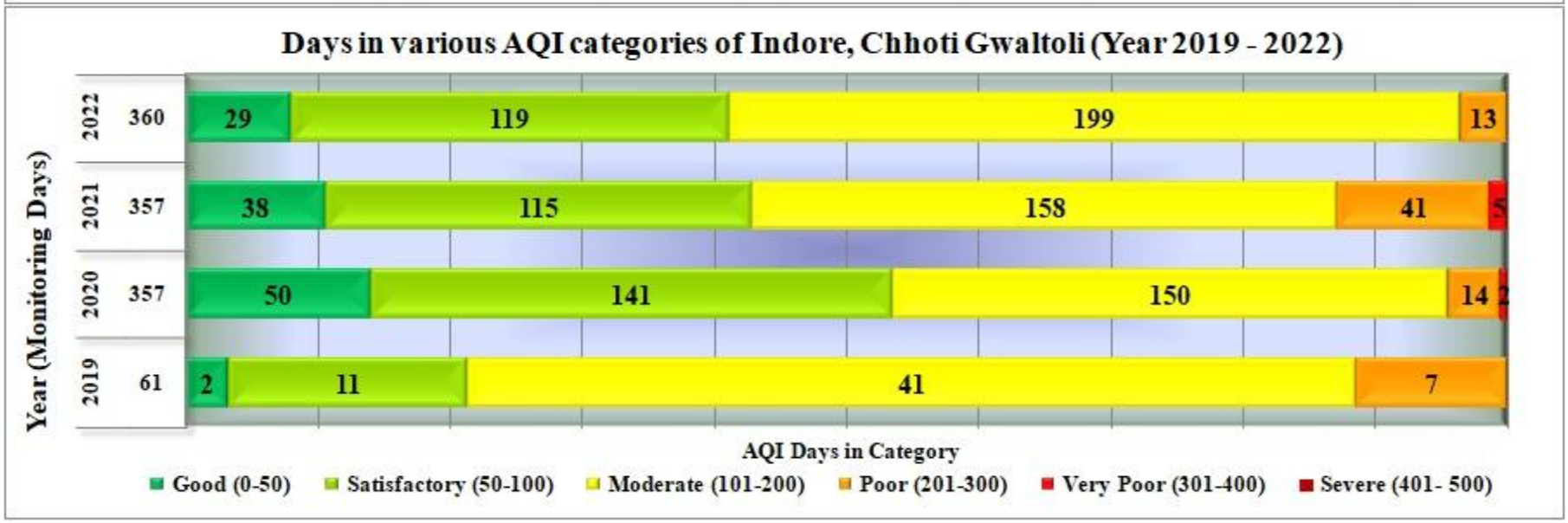

Days in various AQI categories of Dewas, Govt. MG Hospital (Year - 2022)
Year (Monitoring Days)
2022 (213)
39
87
77
8
2
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

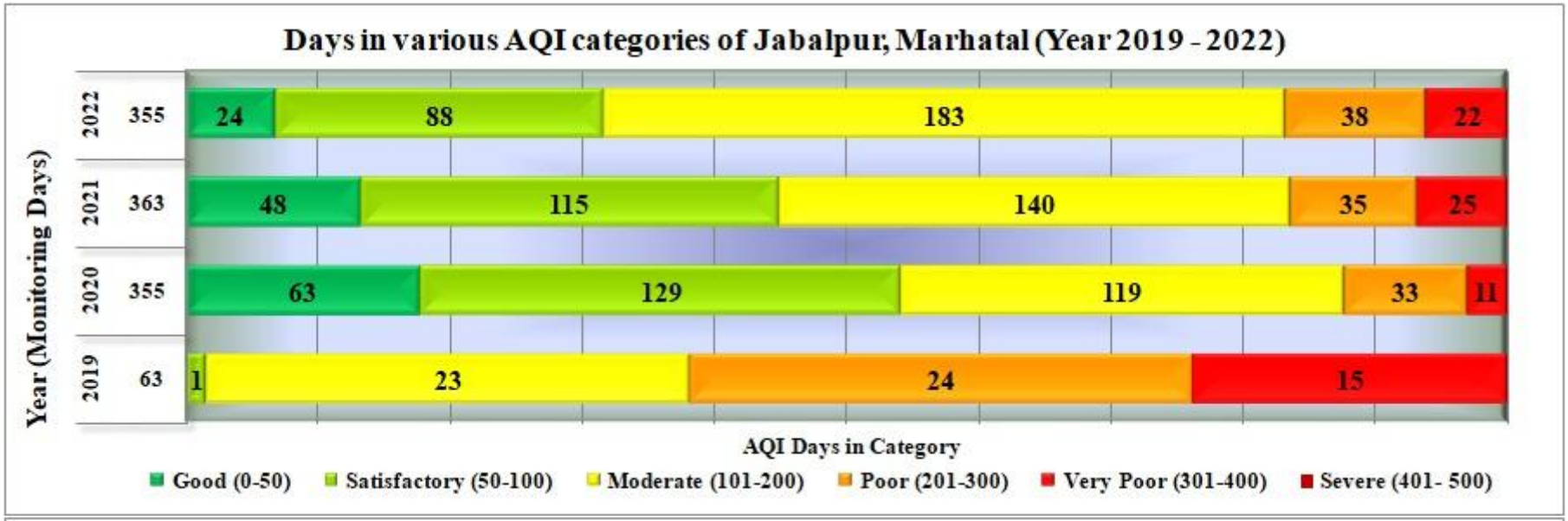

Days in various AQI categories of Gwalior, City Center (Year 2019 - 2022)
Year (Monitoring Days)
2022
330
55
56
133
47
38
2021
360
64
84
121
35
55
2020
352
56
102
105
43
41
5
2019
1
1
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

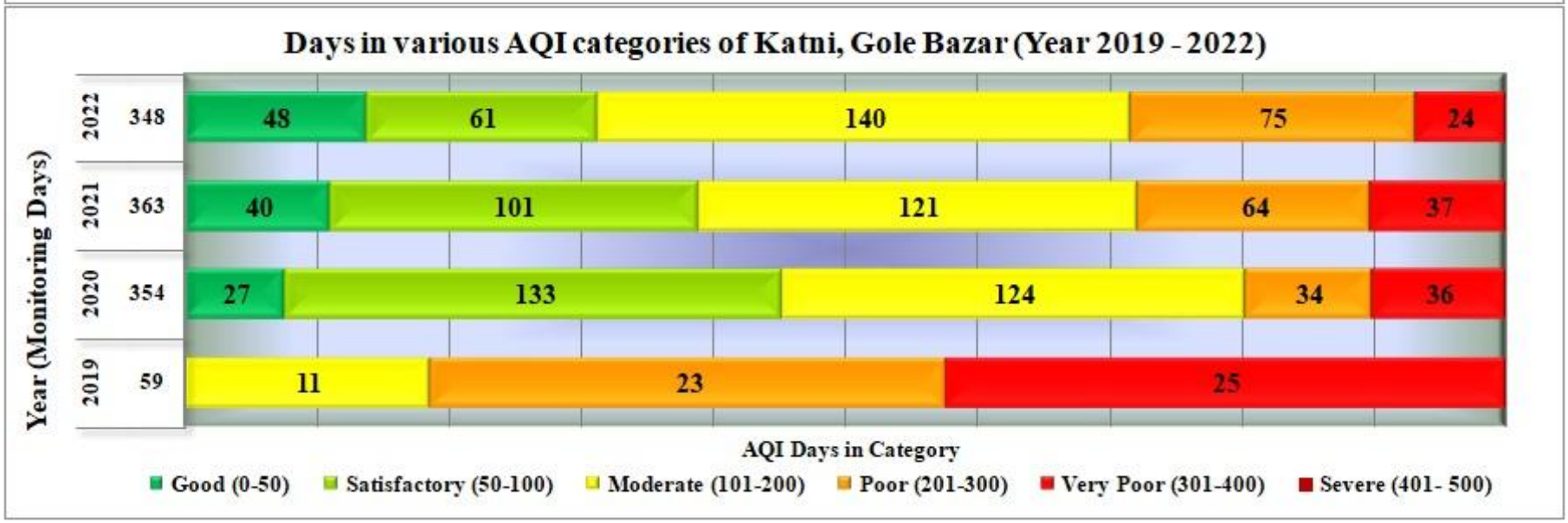

Days in various AQI categories of Gwalior, DD Nagar (Year - 2022)
Year (Monitoring Days)
2022 (42)
4
12
23
3
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

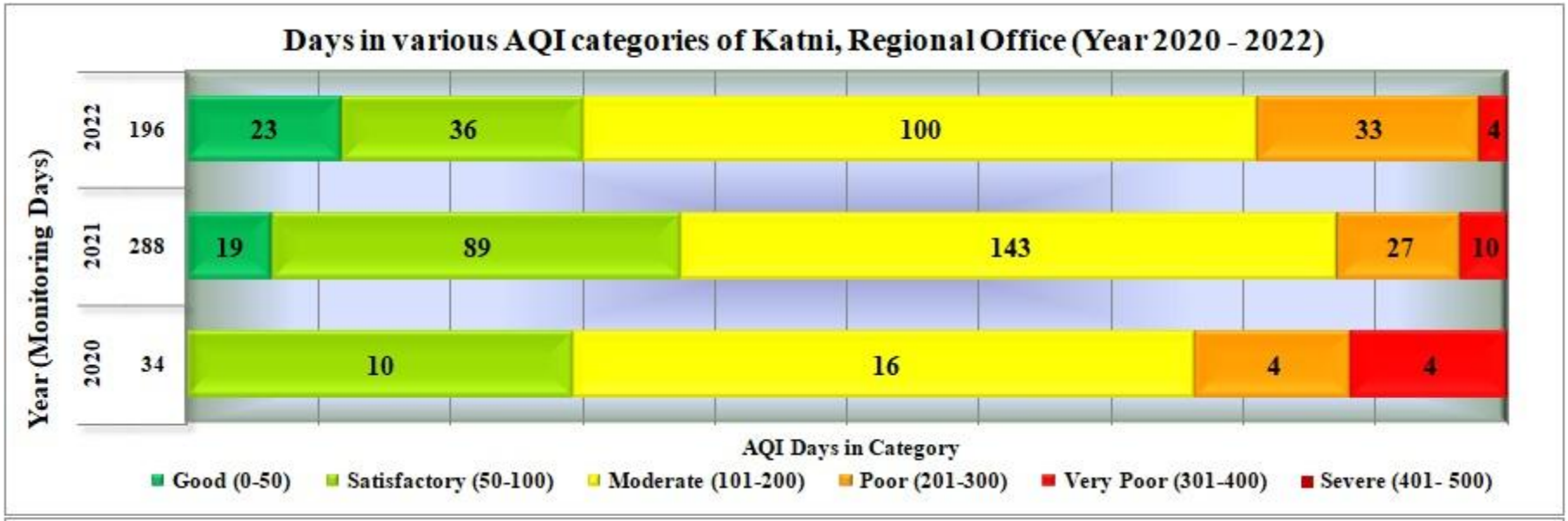

Days in various AQI categories of Gwalior, Maharaj bada (Year - 2022)
Year (Monitoring Days)
2022 (67)
7
21
35
4
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

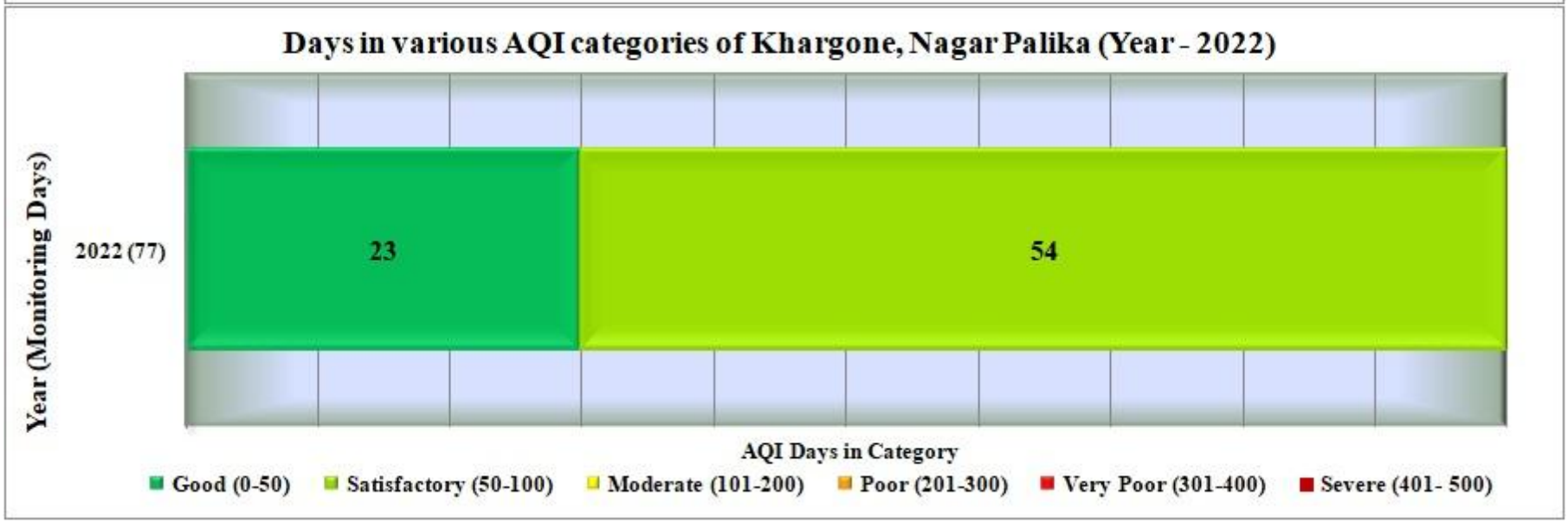

Days in various AQI categories of Gwalior, Phool Bagh (Year 2020 - 2022)
Year (Monitoring Days)
2022
95
35
19
8
11
22
2021
153
13
95
25
10
10
2020
93
40
33
10
9
1
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

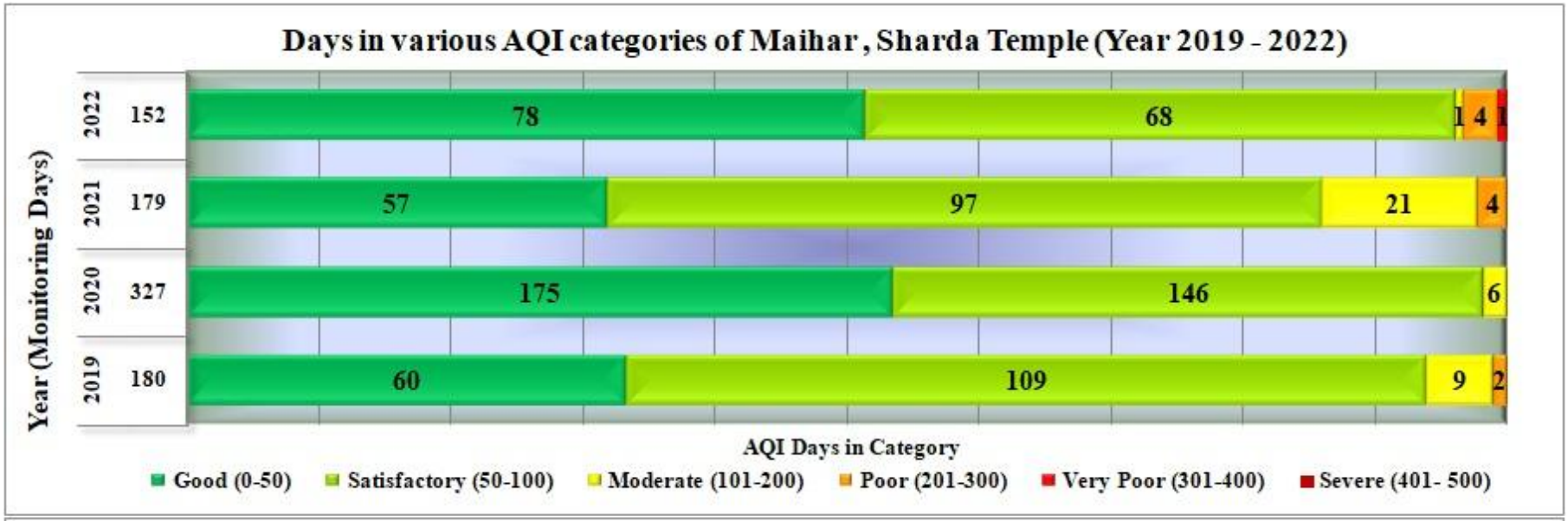

Days in various AQI categories of Indore, Chhoti Gwaltoli (Year 2019 - 2022)
Year (Monitoring Days)
2022
360
29
119
199
13
2021
357
38
115
158
41
5
2020
357
50
141
150
14
2
2019
61
2
11
41
7
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

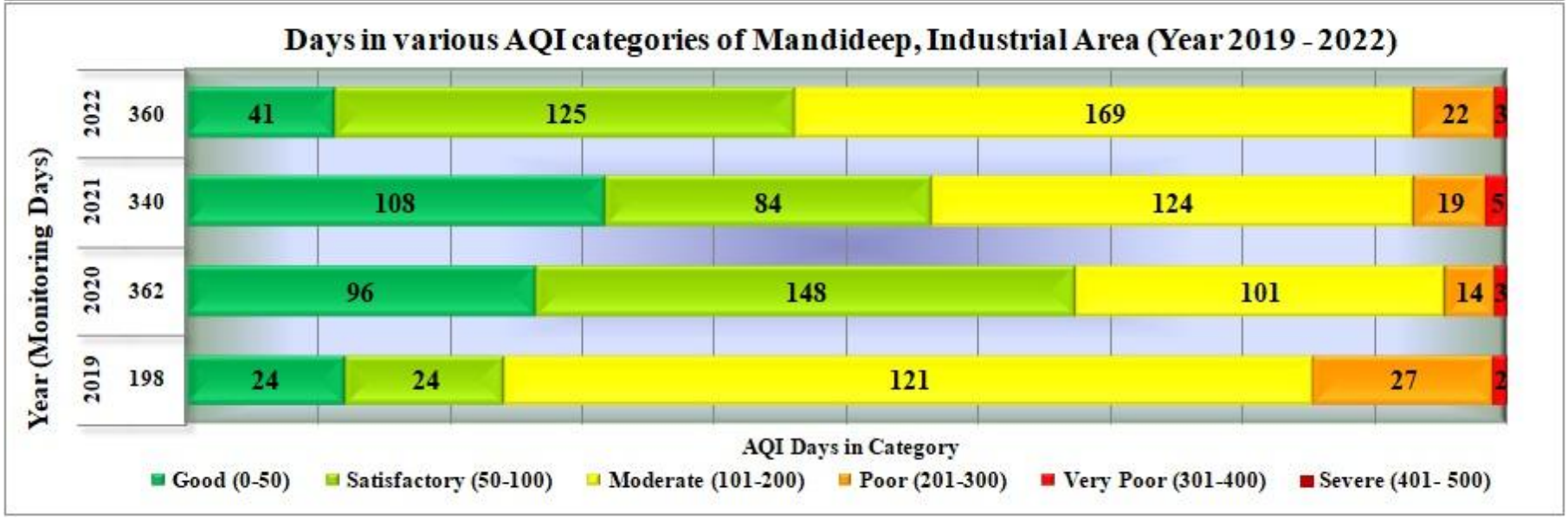

Days in various AQI categories of Jabalpur, Marhatal (Year 2019 - 2022)
Year (Monitoring Days)
2022 355 24 88 183 38 22
2021 363 48 115 140 35 25
2020 355 63 129 119 33 11
2019 63 1 23 24 15
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

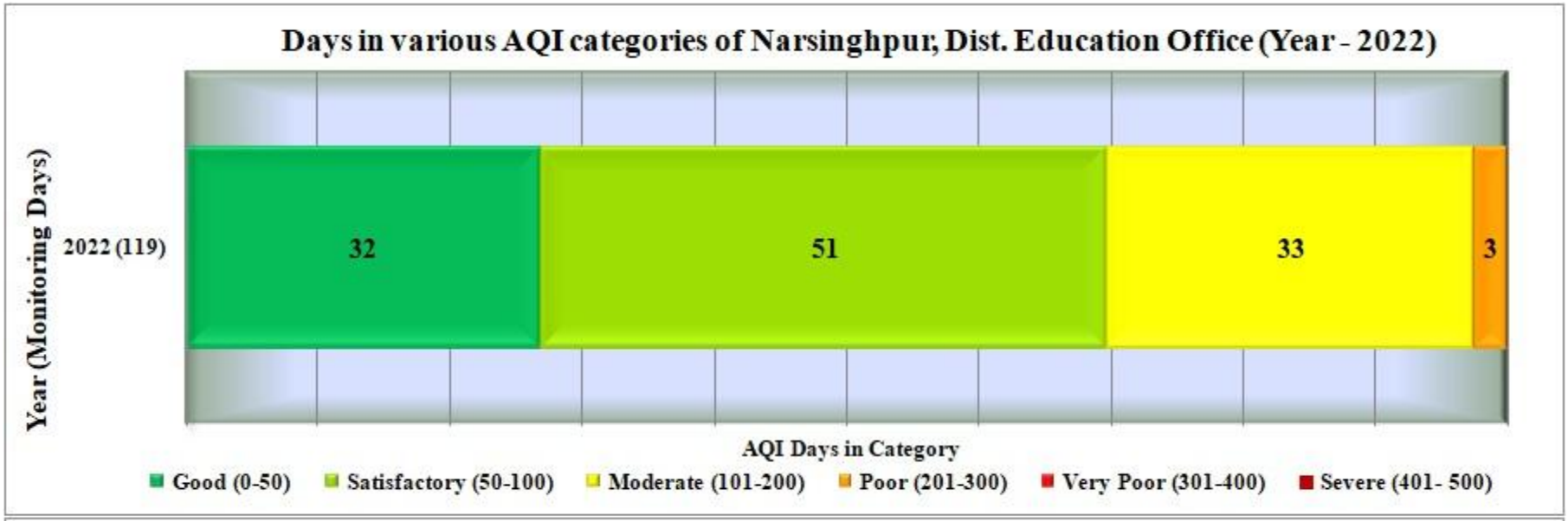

Days in various AQI categories of Katni, Gole Bazar (Year 2019 - 2022)
Year (Monitoring Days)
2022 348 48 61 140 75 24
2021 363 40 101 121 64 37
2020 354 27 133 124 34 36
2019 59 11 23 25
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

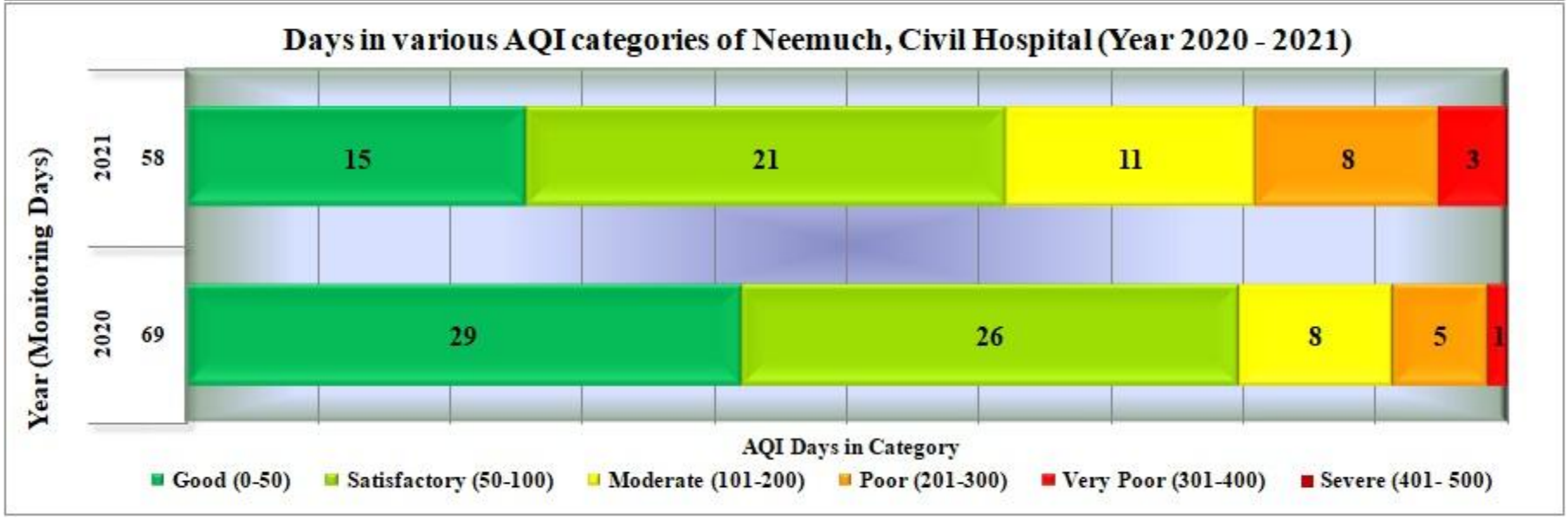

Days in various AQI categories of Katni, Regional Office (Year 2020 - 2022)
Year (Monitoring Days)
2022
196
23
36
100
33
4
2021
288
19
89
143
27
10
2020
34
10
16
4
4
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

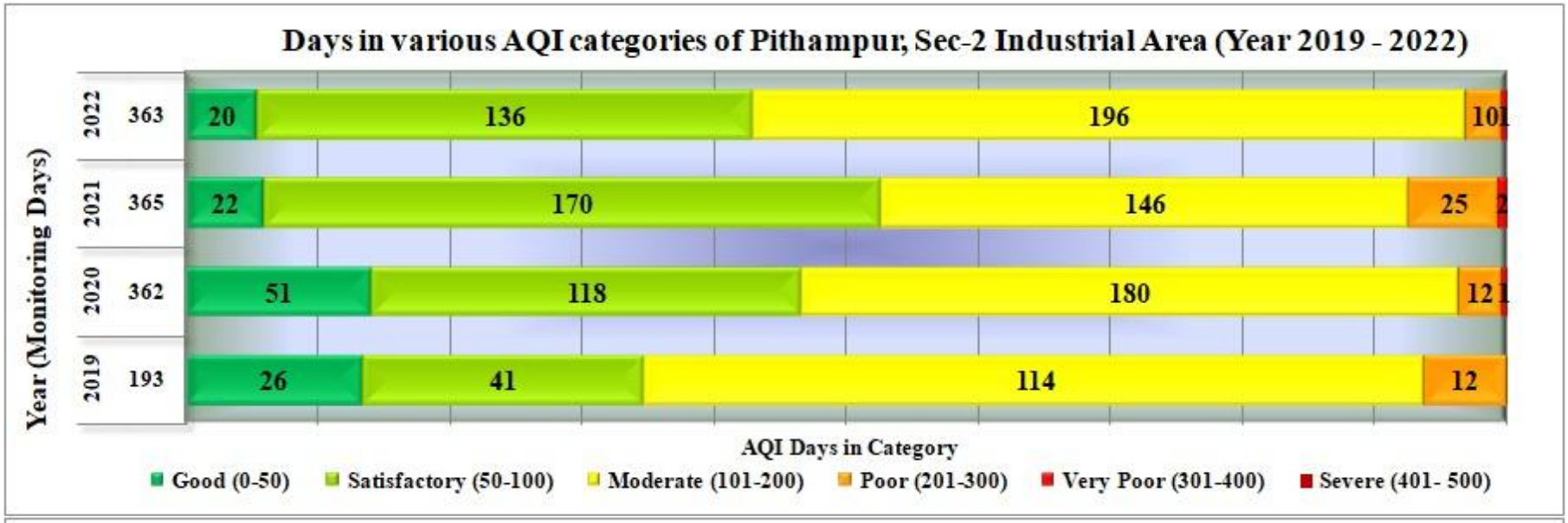

Days in various AQI categories of Khargone, Nagar Palika (Year - 2022)
Year (Monitoring Days)
2022 (77)
23
54
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

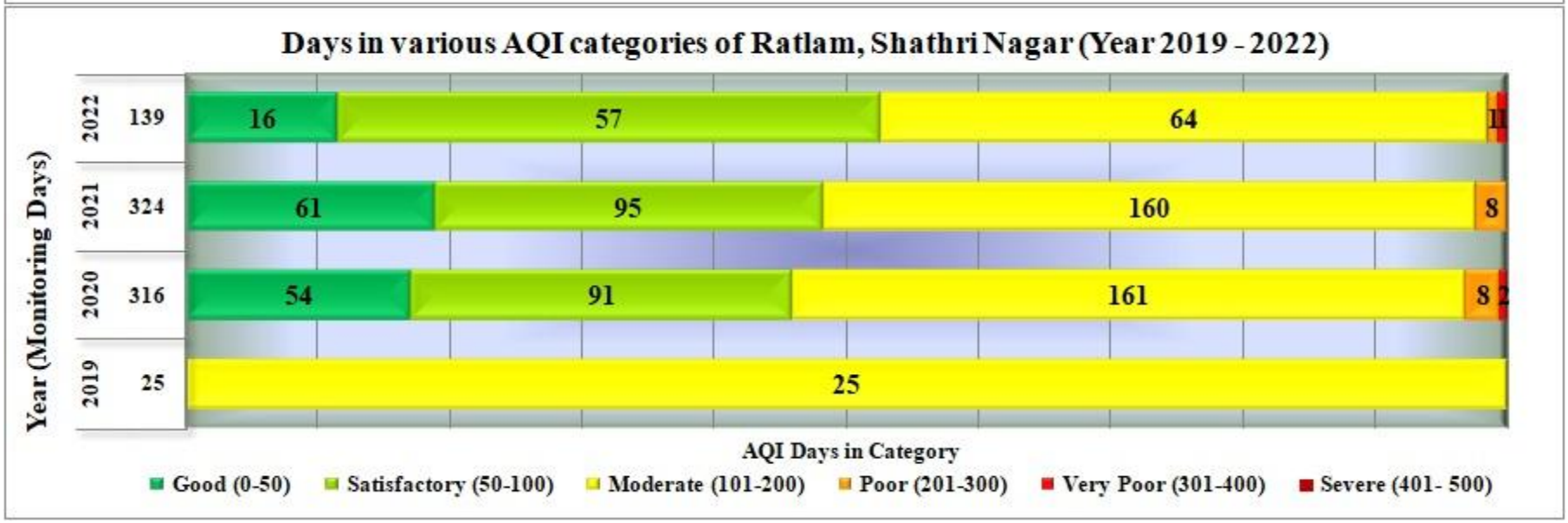

Days in various AQI categories of Maihar , Sharda Temple (Year 2019 - 2022)
Year (Monitoring Days)
2022
152
78
68
1
4
1
2021
179
57
97
21
4
2020
327
175
146
6
2019
180
60
109
9
2
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

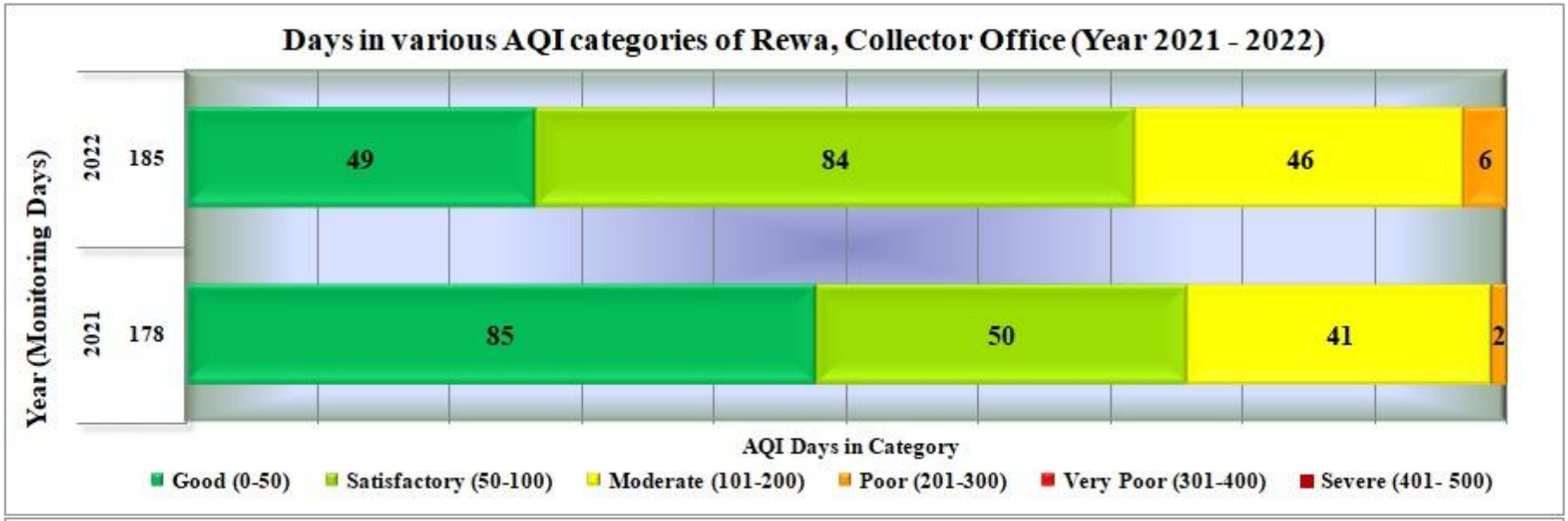

Days in various AQI categories of Mandideep, Industrial Area (Year 2019 - 2022)
Year (Monitoring Days)
2022
360
41
125
169
22
3
2021
340
108
84
124
19
5
2020
362
96
148
101
14
3
2019
198
24
24
121
27
2
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

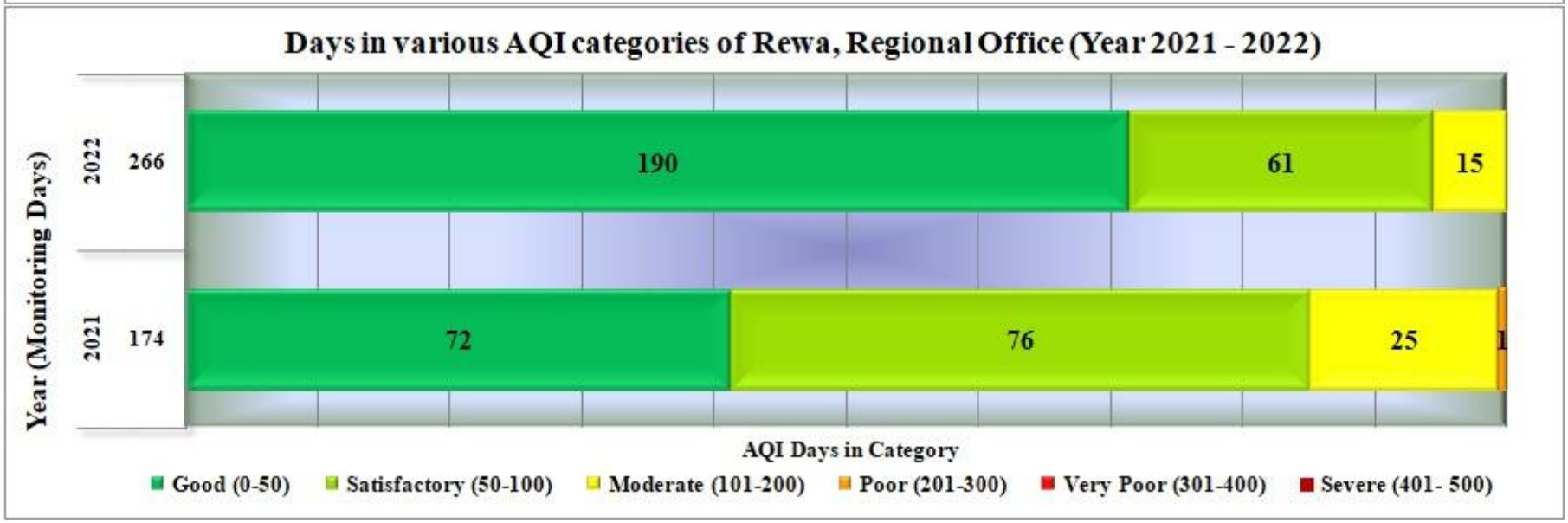

Days in various AQI categories of Narsinghpur, Dist. Education Office (Year - 2022)
Year (Monitoring Days)
2022 (119)
32
51
33
3
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

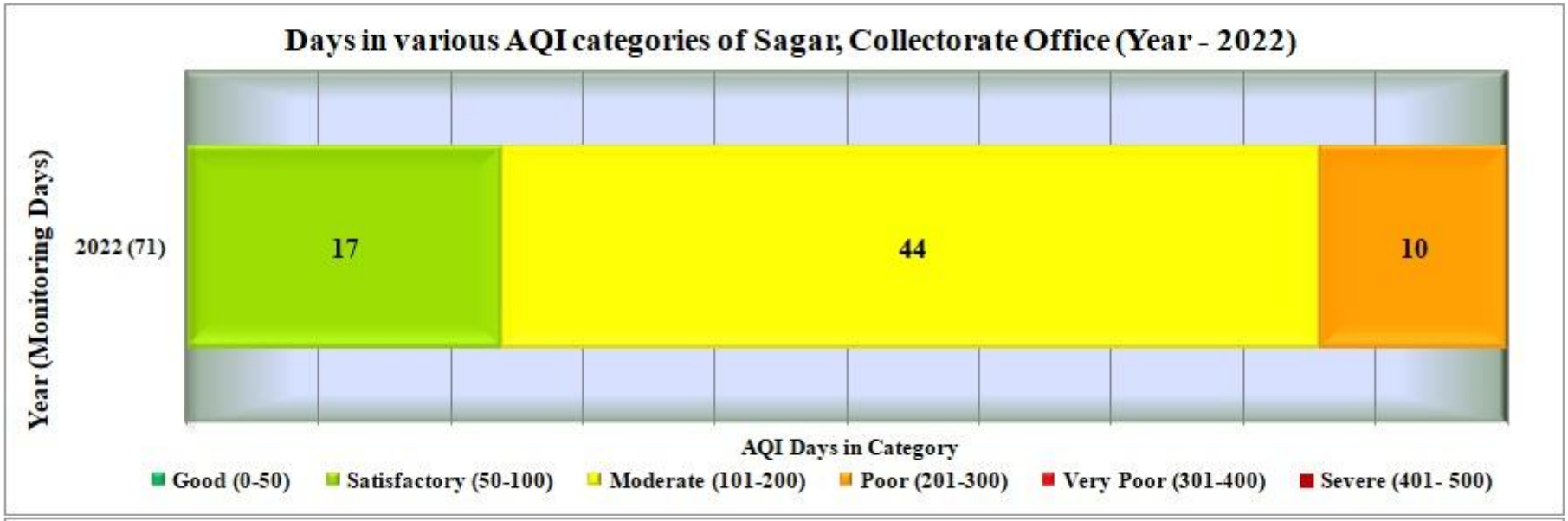

Days in various AQI categories of Neemuch, Civil Hospital (Year 2020 - 2021)
Year (Monitoring Days)
2021
58
15
21
11
8
3
2020
69
29
26
8
5
1
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

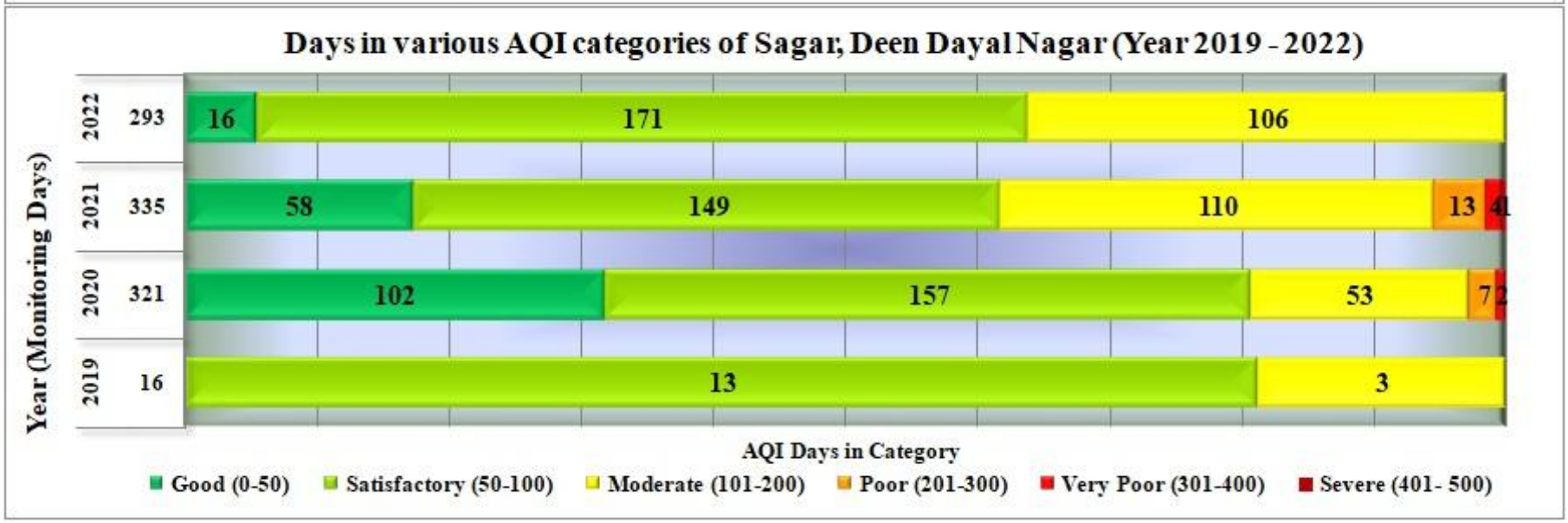

Days in various AQI categories of Pithampur, Sec-2 Industrial Area (Year 2019 - 2022)
Year (Monitoring Days)
2022
363
20
136
196
10
2021
365
22
170
146
25
2
2020
362
51
118
180
12
1
2019
193
26
41
114
12
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

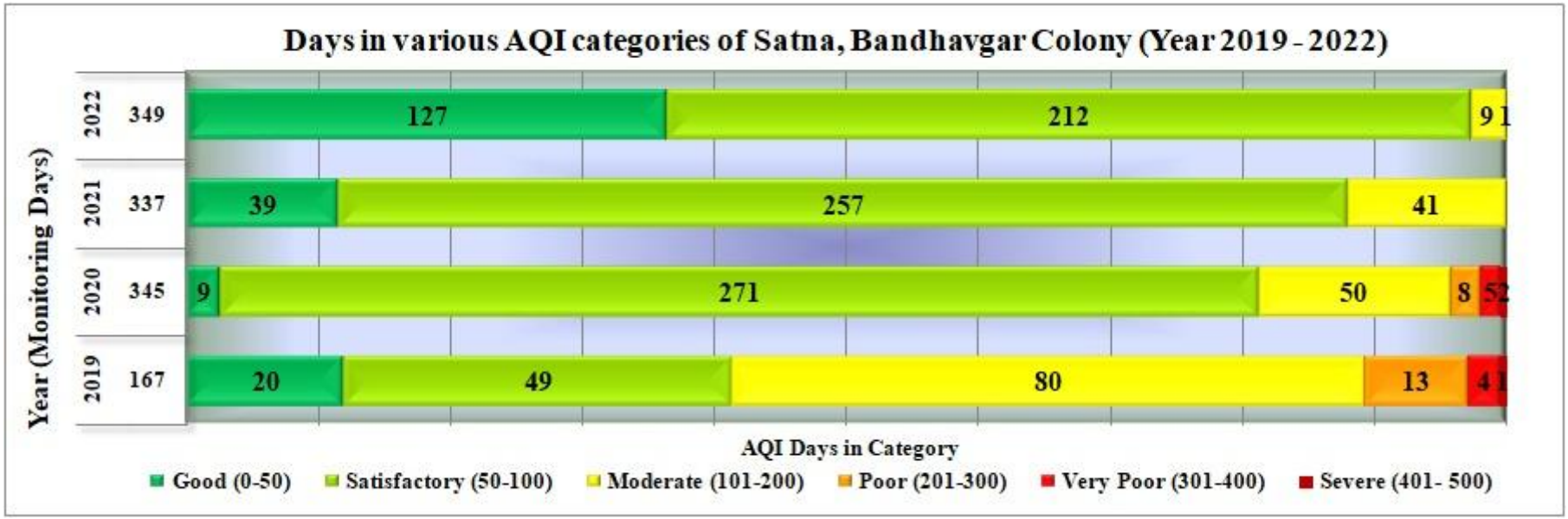

Days in various AQI categories of Ratlam, Shathri Nagar (Year 2019 - 2022)
Year (Monitoring Days)
2022
139
16
57
64
1
2021
324
61
95
160
8
2020
316
54
91
161
8
2
2019
25
25
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

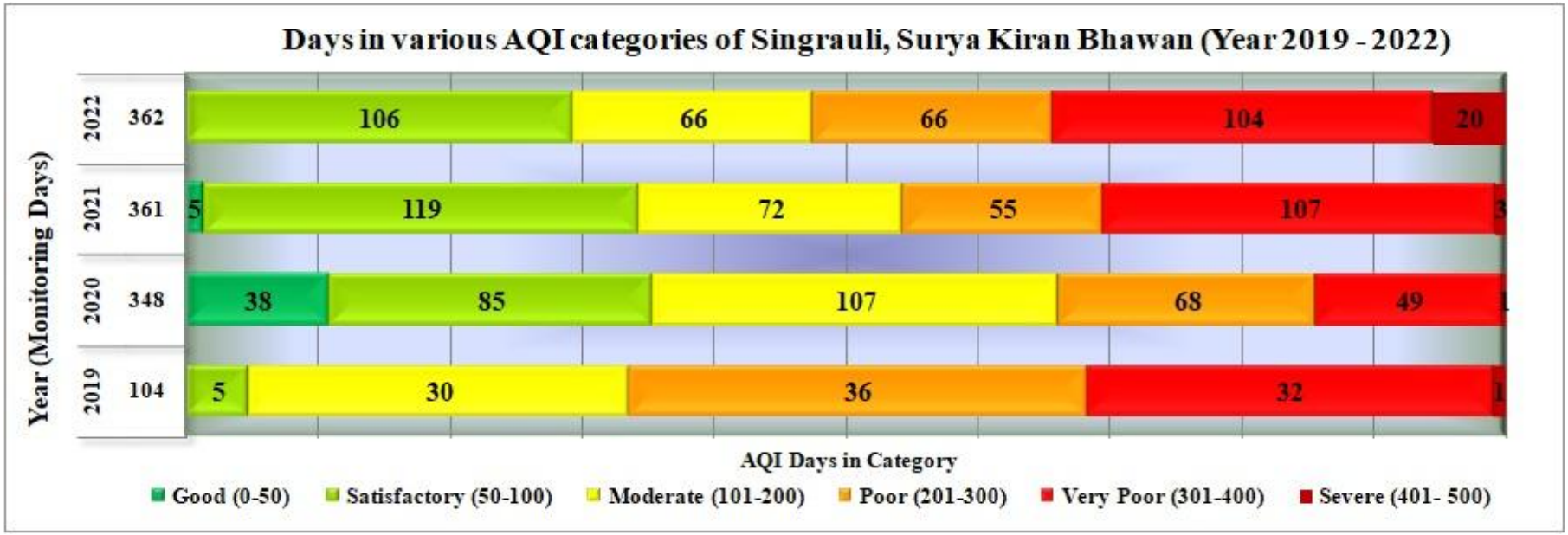

Days in various AQI categories of Rewa, Collector Office (Year 2021 - 2022)
Year (Monitoring Days)
2022
185
49
84
46
6
2021
178
85
50
41
2
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

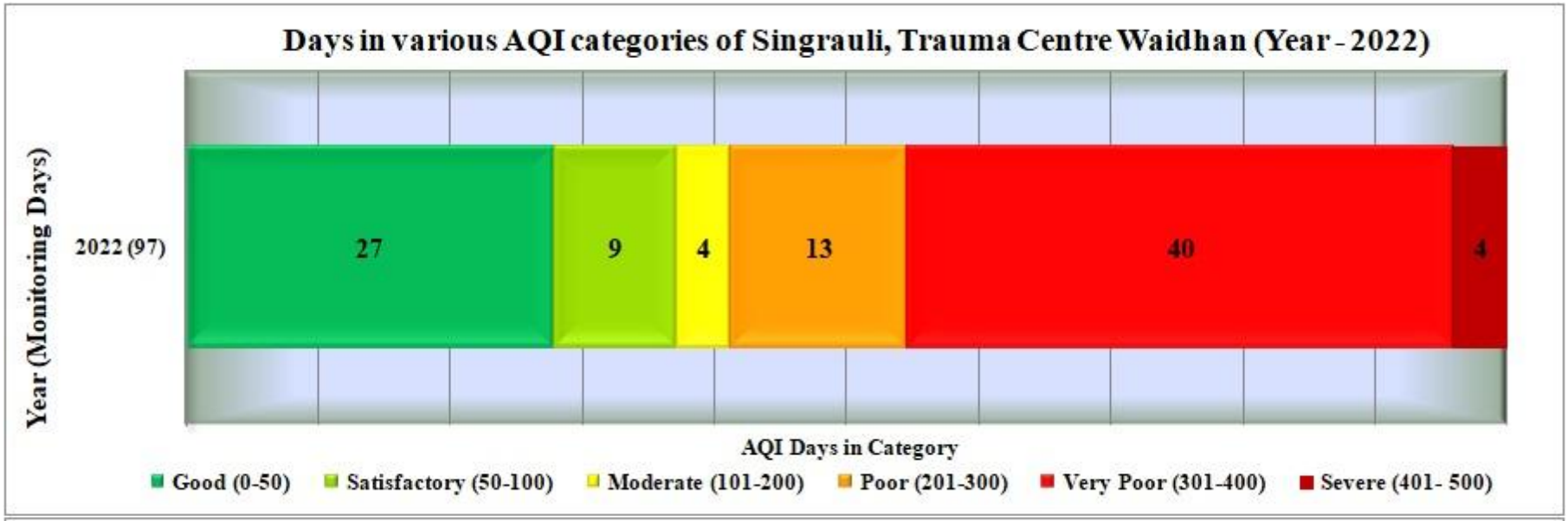

Days in various AQI categories of Rewa, Regional Office (Year 2021 - 2022)
Year (Monitoring Days)
2022
266
190
61
15
2021
174
72
76
25
1
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

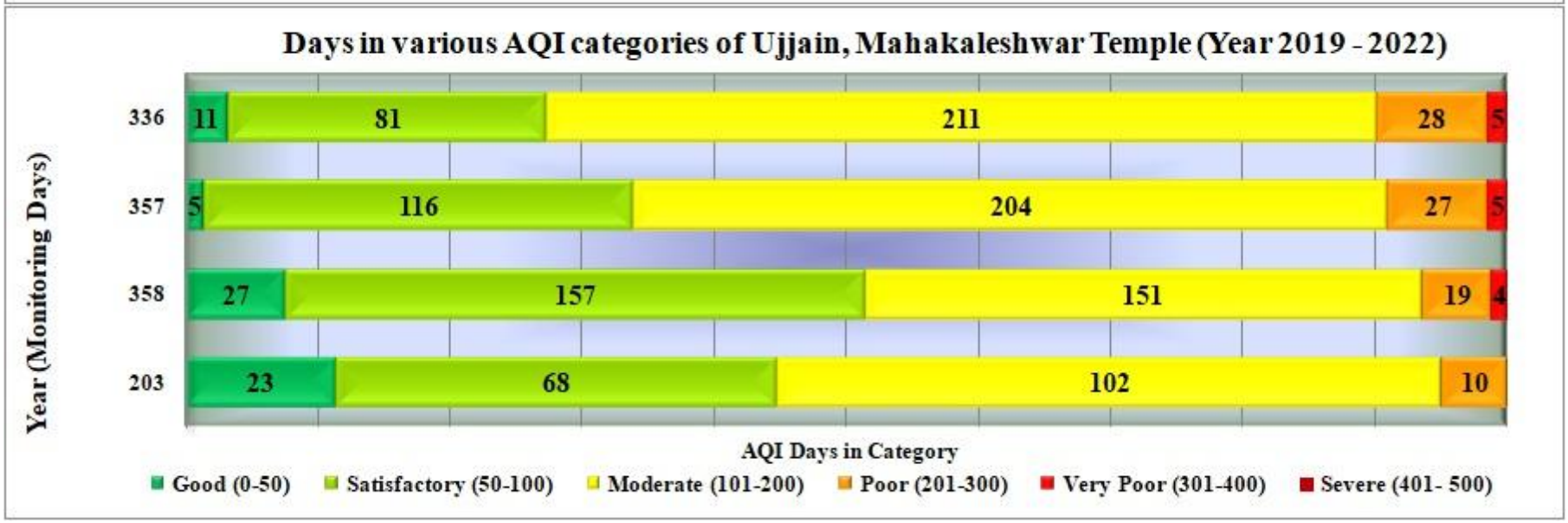

Days in various AQI categories of Sagar, Collectorate Office (Year - 2022)
Year (Monitoring Days)
2022 (71)
17
44
10
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)


Days in various AQI categories of Sagar, Deen Dayal Nagar (Year 2019 - 2022)
Year (Monitoring Days)
2022
293
16
171
106
2021
335
58
149
110
13
4
2020
321
102
157
53
7
2
2019
16
13
3
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)


Days in various AQI categories of Satna, Bandhavgar Colony (Year 2019 - 2022)
Year (Monitoring Days)
2022
349
127
212
9
1
2021
337
39
257
41
2020
345
9
271
50
8
52
2019
167
20
49
80
13
4
1
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)


Days in various AQI categories of Singrauli, Surya Kiran Bhawan (Year 2019 - 2022)
Year (Monitoring Days)
2022
362
106
66
66
104
20
2021
361
5
119
72
55
107
3
2020
348
38
85
107
68
49
1
2019
104
5
30
36
32
1
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)


Days in various AQI categories of Singrauli, Trauma Centre Waidhan (Year - 2022)
Year (Monitoring Days)
2022 (97)
27
9
4
13
40
4
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)


Days in various AQI categories of Ujjain, Mahakaleshwar Temple (Year 2019 - 2022)
Year (Monitoring Days)
336
11
81
211
28
5
357
5
116
204
27
5
358
27
157
151
19
4
203
23
68
102
10
AQI Days in Category
Good (0-50)
Satisfactory (50-100)
Moderate (101-200)
Poor (201-300)
Very Poor (301-400)
Severe (401- 500)

Annual Exceedance Report of Ambient Air Parameters
(Year 2019 - 2022)

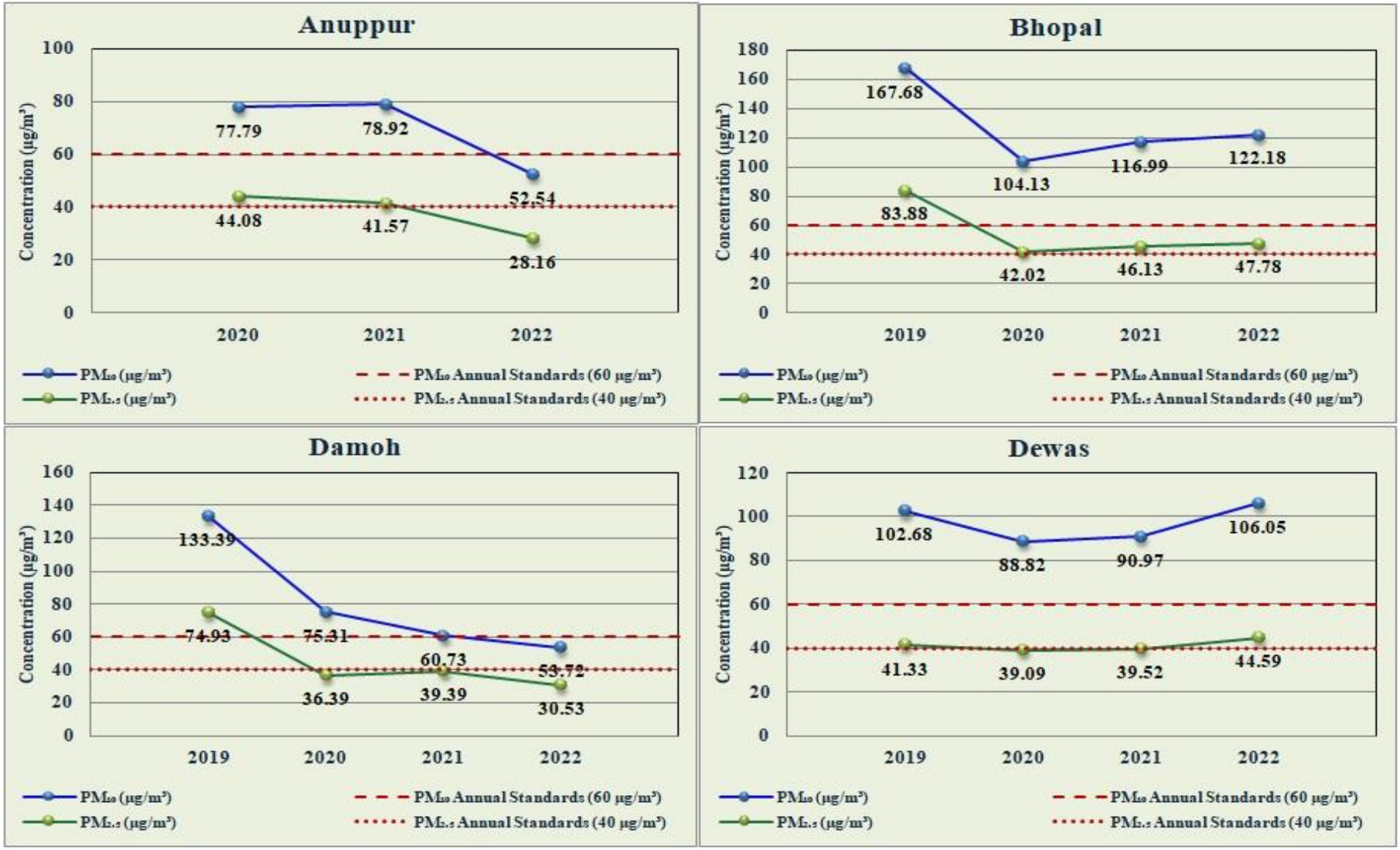
Sr No.	Station	Year	PM10 (µg/m3)	PM2.5 (µg/m3)	NOX (ppb)	CO (mg/m3)	SO2 (µg/m3)	NH3 (µg/m3)	Ozone (µg/m3)
1	Dewas, Bhopal Chauraha	2019	102.68	41.33	14.6	0.5	9.04	19.72	60.61
		2020	88.82	39.09	12.7	0.71	9.9	20.35	56.48
		2021	90.97	39.52	14	0.52	12.82	20.13	42.06
		2022	106.05	44.59	15.7	0.66	13.31	20.63	34.92
2	Singrauli, Surya Kiran Bhawan Dudhichua	2019	234.69	93.11	37.6	0.91	50.26	20.18	45.5
		2020	158.84	71.98	25	0.79	45.58	10.58	39.55
		2021	179.4	87.95	41.4	1.15	34.19	40.88	27.79
		2022	202.11	86.3	68.1	1.01	29.85	41.21	34.9
3	Ujjain, Mahakaleshwar Temple	2019	96.43	39.55	8.22	0.81	5.89	24.35	70.99
		2020	97.88	44.74	10.6	0.74	6.94	18.36	68.51
		2021	127.36	47.64	11.9	0.75	6.04	19.12	68.21
		2022	141.51	54.42	13.7	0.89	7.78	23.68	48.73
4	Maihar , Sharda Temple	2019	58.22	30.31	15.4	0.73	6.41	NA	NA
		2020	45.75	24.28	22.5	0.46	8.97	NA	NA
		2021	54.02	33.95	18.8	0.94	10.78	NA	NA
		2022	43.84	20.3	17.6	1.34	9.82	NA	NA
5	Mandideep, Sector New Industrial Area	2019	158.77	37.7	20	0.82	21.79	17.22	38.62
		2020	86.89	36.89	20.9	0.72	15.33	17.59	31.88
		2021	99.22	43.03	24.7	0.74	47.83	16.78	23.48
		2022	106.82	39.16	25.6	0.75	59.04	20.51	39.51
6	Pithampur, Sector-2 Industrial Area	2019	117.34	41.46	6.98	0.42	11.07	13.81	17.45
		2020	98.47	39.96	8.6	0.74	13.07	17.71	29.28
		2021	95.62	50.14	19.2	0.67	21.03	18.07	61.14
		2022	112.7	46.22	8.88	0.71	16.47	15.53	41.39
7	Satna, Bandhavgar Colony	2019	108.43	27	40.5	1.05	29.95	NA	NA
		2020	75.85	19.65	27.7	0.29	10.36	NA	NA
		2021	75.25	22.03	20.6	0.25	18.69	NA	NA
		2022	55.78	18.22	14.6	0.34	6.72	NA	22.17
8	Bhopal, T T Nagar	2019	167.68	83.88	35.6	1.21	15.26	19.57	61.4
		2020	104.13	42.02	17.2	0.83	15.55	15.54	57.41
		2021	116.99	46.13	18.4	0.89	22.33	12.46	65.07
		2022	122.18	47.78	13.6	1.03	20.43	11.02	58.33
9	Indore, Chhoti Gwaltoli	2019	137.3	66.45	54.7	1.13	8.9	24.78	40.69
		2020	99.65	39.78	37.4	0.76	9.99	16.87	48.87
		2021	117.58	48.45	38	1.07	14.21	18.26	47.83
		2022	121.28	43.05	46.4	1.07	15.26	22.63	45.43
10	Jabalpur, Marhatal	2019	180.94	97.42	36.9	1.3	10.71	22.32	40.02
		2020	105.46	46.54	25.8	0.93	10.35	12.43	45.23

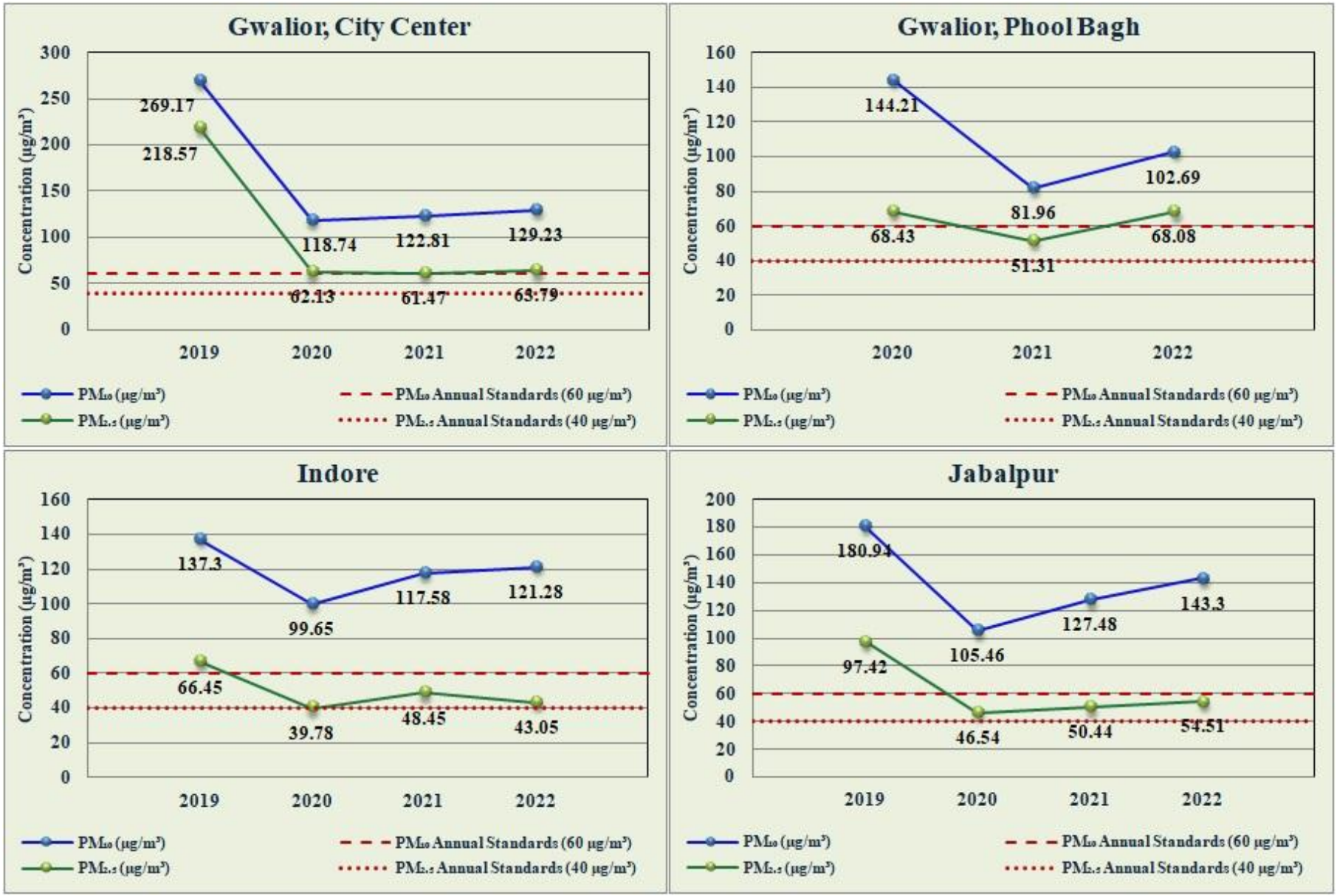
		2021	127.48	50.44	29.7	1.09	13.94	17.13	45.21
		2022	143.3	54.51	27	1.37	10.16	18.93	36.42
11	Katni, Gole Bazar	2019	209.26	116.12	31	1.1	13.86	24.5	51.49
		2020	128.47	57.37	23	0.83	13.41	30.34	43.43
		2021	150.04	58.69	19.1	0.96	16.77	21.32	38.88
		2022	160.32	59.64	21.4	1.03	25.36	14.3	33.33
12	Damoh, Shrivastav Colony	2019	133.39	74.93	25.2	0.21	23.02	NA	NA
		2020	75.31	36.39	25.3	0.31	18.31	NA	NA
		2021	60.73	39.39	24.7	0.28	23.14	NA	NA
		2022	53.72	30.53	13.4	0.4	17.84	NA	NA
13	Sagar, Deen Dayal Nagar	2019	82.93	45.94	42.7	1.03	1.77	NA	NA
		2020	67.91	33.31	19	0.69	3.34	NA	NA
		2021	105.48	36.31	19.7	0.42	8.42	NA	NA
		2022	90.11	28.85	13.1	1.03	7.91	NA	NA
14	Ratlam, Shathri Nagar	2019	153.24	62.25	48.4	NA	5.89	NA	NA
		2020	105.16	51.14	22.7	NA	14.88	NA	NA
		2021	100.58	44.52	24.3	NA	12.92	NA	NA
		2022	95.61	43.68	40.4	NA	18.65	NA	NA
15	Gwalior, City Center	2019	269.17	218.57	34.3	0.28	36.51	40.92	61.4
		2020	118.74	62.13	20.4	0.73	22.19	19.94	57.84
		2021	122.81	61.47	23.4	0.8	20.24	19.63	47.44
		2022	129.23	63.79	24.5	0.81	21.57	18.19	43.61
16	Gwalior, Phool Bagh	2020	144.21	68.43	31.9	0.74	21.72	NA	NA
		2021	81.96	51.31	65.8	0.85	6.96	NA	NA
		2022	102.69	68.08	5.44	0.68	14.66	NA	NA
17	Neemuch, Civil Hospital	2020	59.63	44.81	10.4	0.36	6.92	NA	NA
		2021	71.61	52.45	8.56	0.31	5.74	NA	NA
18	Anuppur, Collectorate	2020	77.79	44.08	13.1	3.18	16.95	NA	14.14
		2021	78.92	41.57	11.9	1.85	15.66	NA	14.28
		2022	52.54	28.16	12.9	0.88	14.57	NA	14.57
19	Katni, Regional Office	2020	162.07	77.24	46.8	1.11	9.43	NA	NA
		2021	123.24	57.05	39.7	0.78	7.8	NA	NA
		2022	109.84	63.8	23.7	0.85	10.38	NA	NA
20	Rewa, Regional Office	2021	63.36	28.4	16.8	0.68	8.2	NA	NA
		2022	42.02	21.71	20.5	NA	4.75	NA	NA
21	Rewa, Collector Office	2021	64.09	18.91	22.1	0.6	9.59	NA	NA
		2022	77.91	16.85	32.4	0.67	19.71	NA	NA
22	Betul , Collector Office	2022	116.1	47.95	7.51	1.1	67.77	7.79	NA
23	Dewas, Govt. MG Hospital	2022	84.3	38.74	21.5	NA	32.96	NA	NA

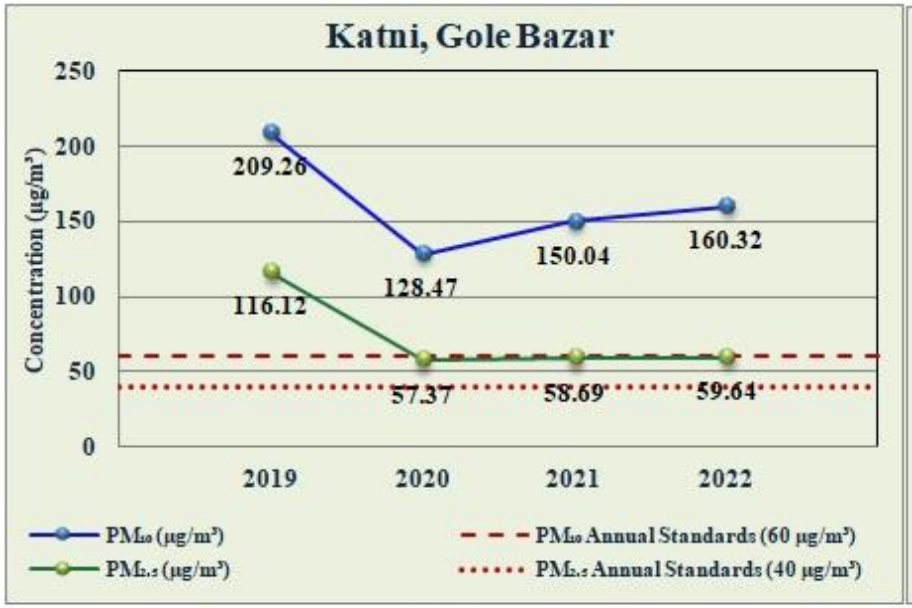
24	Khargone, Nagar Palika	2022	46.77	18.83	24	0.75	11.37	NA	NA
25	Singrauli, Trauma Centre Waidhan	2022	183.55	105.64	10.3	0.73	13.18	NA	NA
26	Narsinghpur, District Education Office	2022	75.8	44.6	25.7	0.97	10.45	NA	NA
27	Bhopal, Paryavaran Parisar	2022	163.12	79.43	26.1	1.2	6.35	18.91	28.33
28	Gwalior, Maharajbada	2022	260.9	148.98	32	1.47	33.74	37.85	56.42
29	Sagar, Collectorate Office	2022	112.86	62.86	12.2	0.89	6.19	11.08	98.13
30	Gwalior, DD Nagar	2022	302.9	149.68	45.6	1.61	13.71	32.92	72.11

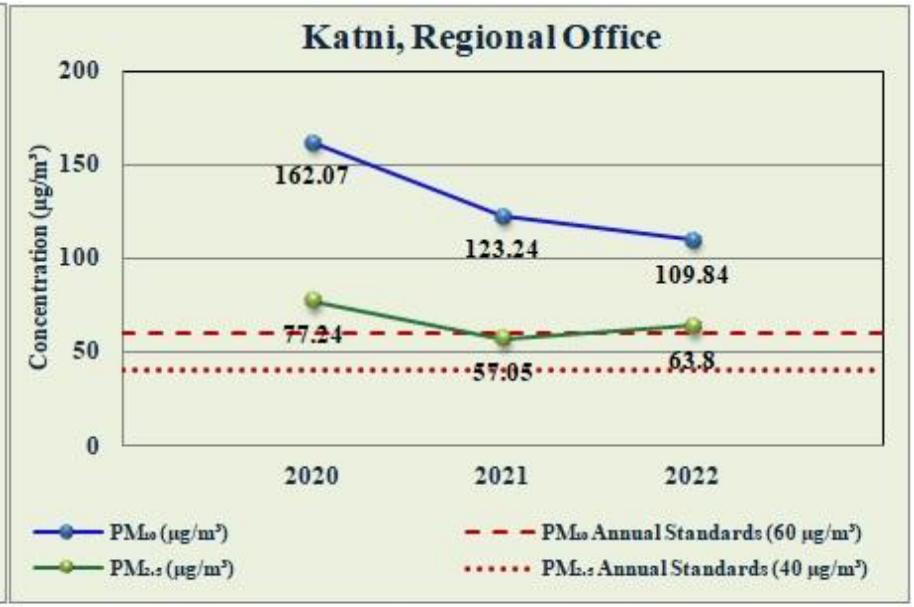
* NA = Not Available

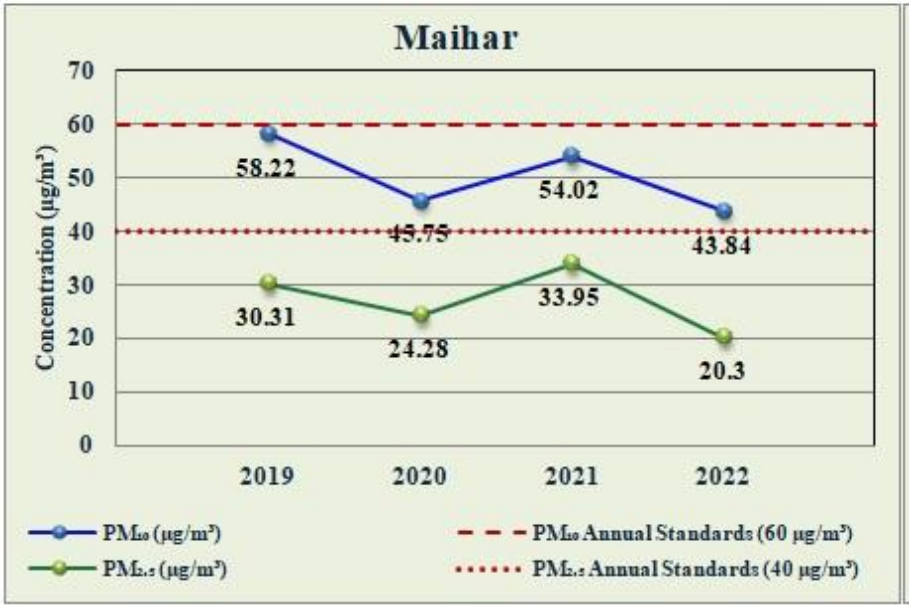
City-wise Annual Exceedance of Particulate Matters during 2019-2022

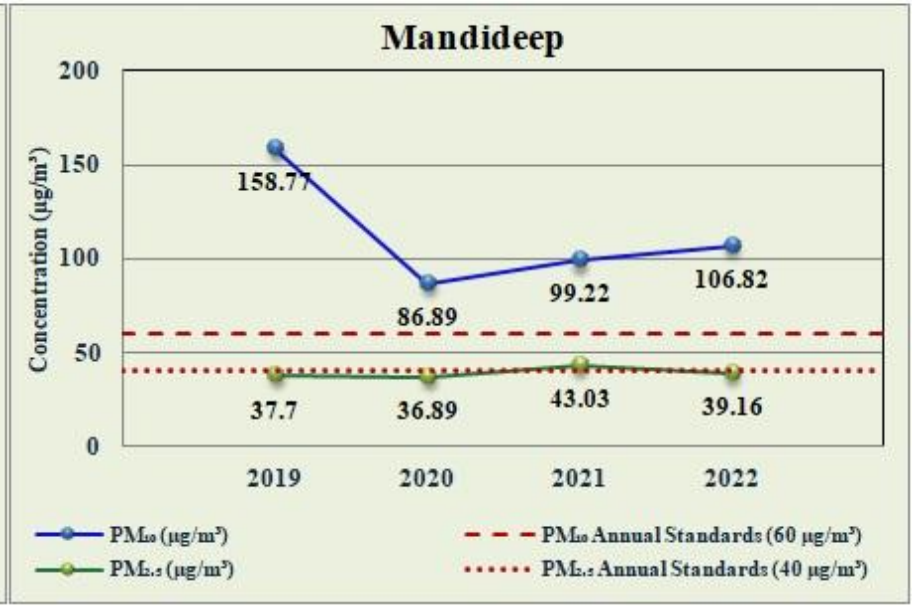


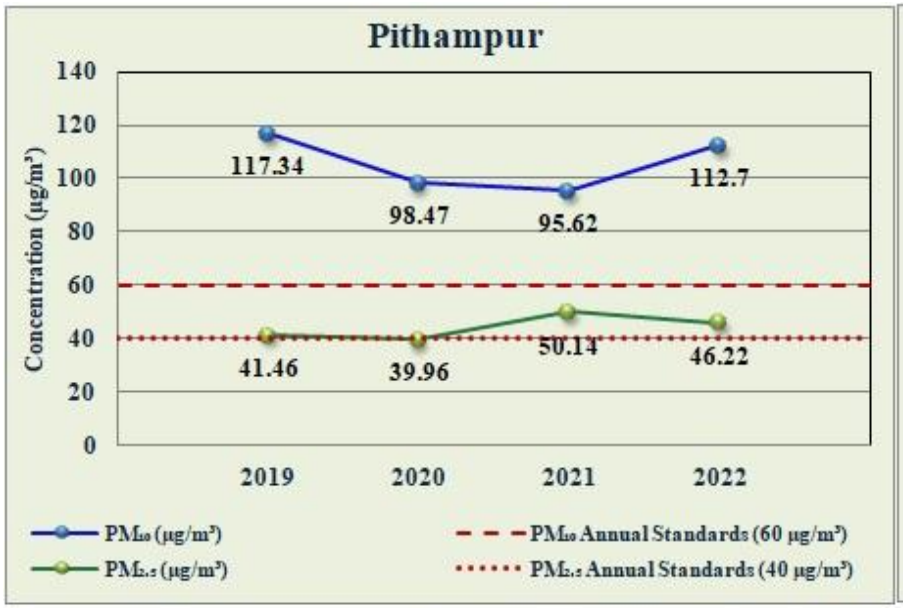

Gwalior, City Center
Concentration (µg/m³)
300
250
200
150
100
50
0
269.17
218.57
118.74
122.81
129.23
62.13
61.47
63.79
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₂.₅ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)
Gwalior, Phool Bagh
Concentration (µg/m³)
160
140
120
100
80
60
40
20
0
144.21
81.96
102.69
68.43
51.31
68.08
2020
2021
2022
PM₁₀ (µg/m³)
PM₂.₅ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)
Indore
Concentration (µg/m³)
160
140
120
100
80
60
40
20
0
137.3
99.65
117.58
121.28
66.45
39.78
48.45
43.05
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₂.₅ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)
Jabalpur
Concentration (µg/m³)
200
180
160
140
120
100
80
60
40
20
0
180.94
105.46
127.48
143.3
97.42
46.54
50.44
54.51
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₂.₅ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)

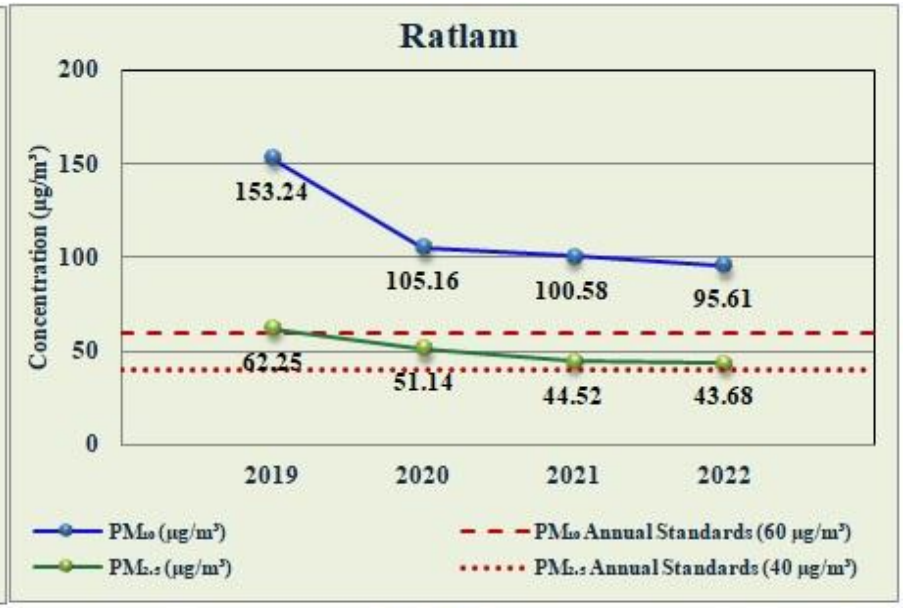

Katni, Gole Bazar
Concentration (µg/m³)
250
200
150
100
50
0
209.26
128.47
150.04
160.32
116.12
57.37
58.69
59.64
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)

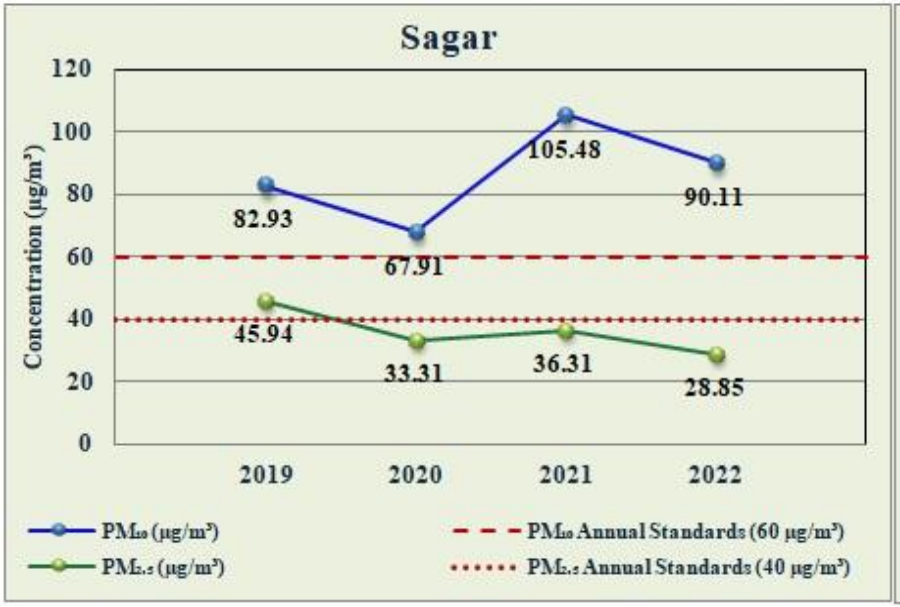

Katni, Regional Office
Concentration (µg/m³)
200
150
100
50
0
162.07
123.24
109.84
77.24
57.05
63.8
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)

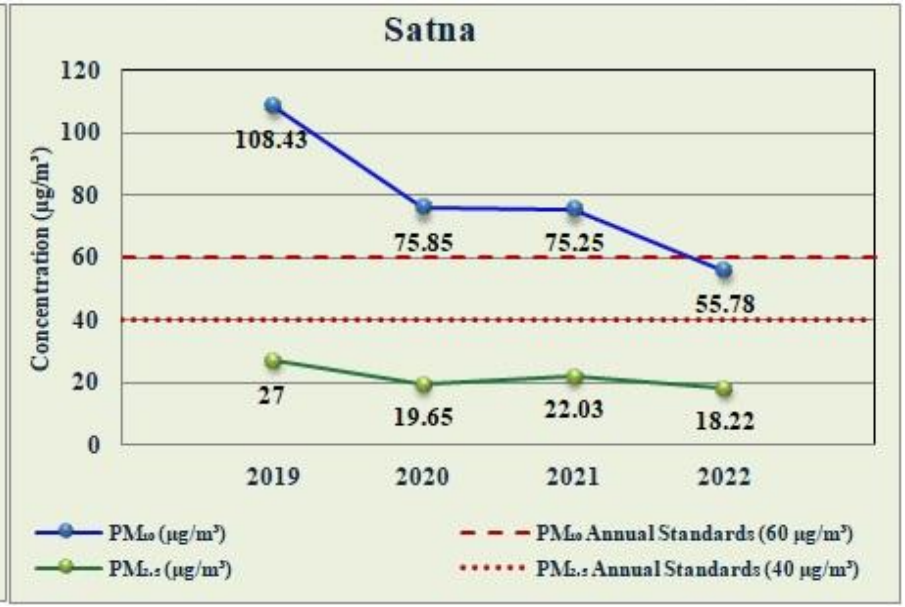

Maihar
Concentration (µg/m³)
70
60
50
40
30
20
10
0
58.22
45.75
54.02
43.84
30.31
24.28
33.95
20.3
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)

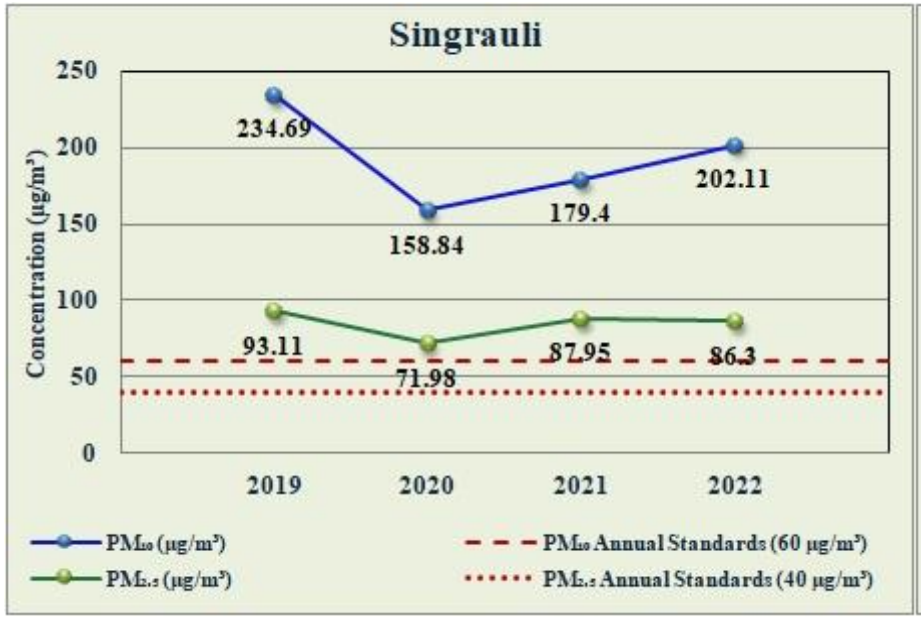

Mandideep
Concentration (µg/m³)
200
150
100
50
0
158.77
86.89
99.22
106.82
37.7
36.89
43.03
39.16
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)


Pithampur
Concentration (µg/m³)
140
120
100
80
60
40
20
0
117.34
98.47
95.62
112.7
41.46
39.96
50.14
46.22
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)

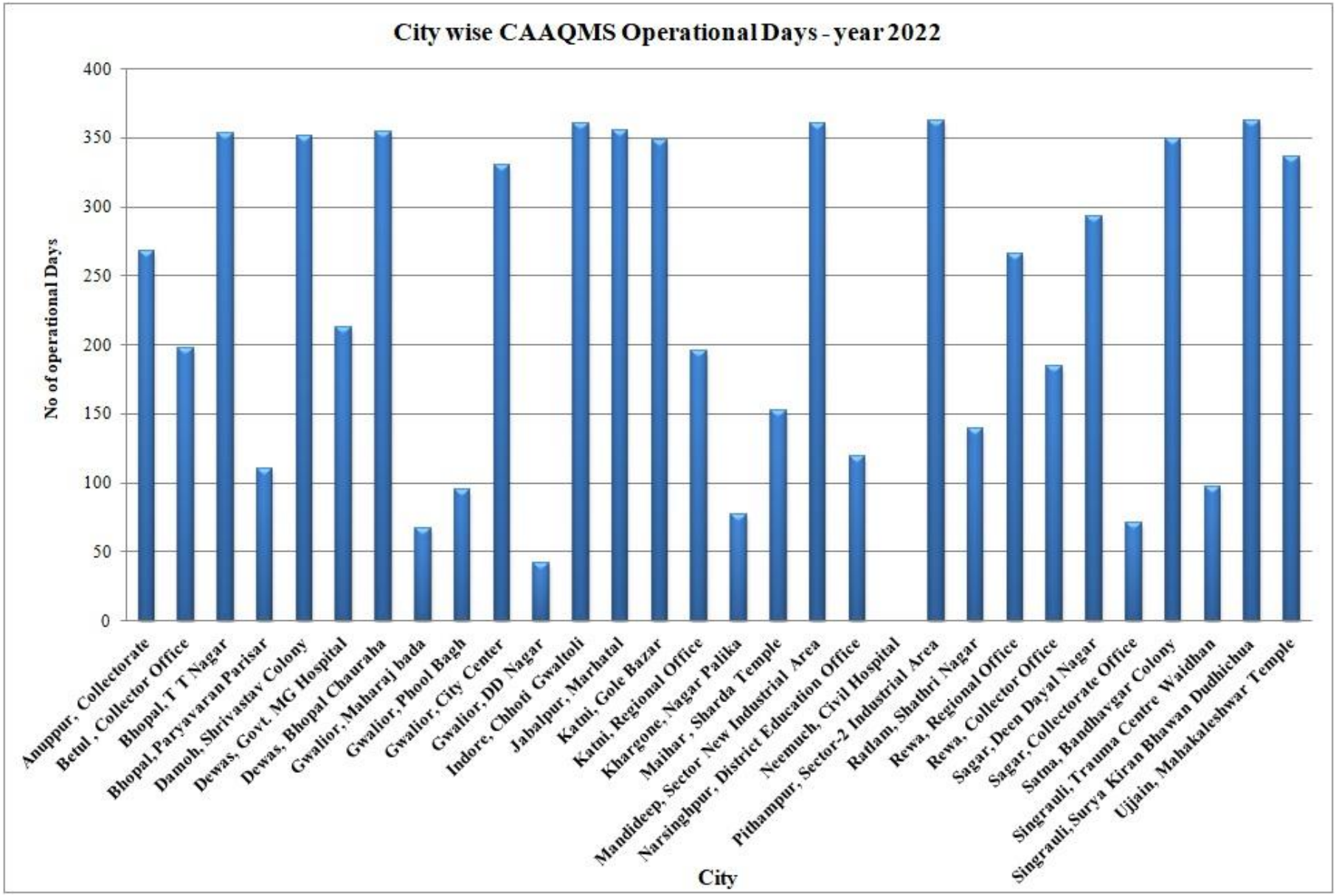

Ratlam
Concentration (µg/m³)
200
150
100
50
0
153.24
105.16
100.58
95.61
62.25
51.14
44.52
43.68
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)


Sagar
Concentration (µg/m³)
120
100
80
60
40
20
0
82.93
67.91
105.48
90.11
45.94
33.31
36.31
28.85
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)


Satna
Concentration (µg/m³)
120
100
80
60
40
20
0
108.43
75.85
75.25
55.78
27
19.65
22.03
18.22
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)


Singrauli
Concentration (µg/m³)
250
200
150
100
50
0
234.69
158.84
179.4
202.11
93.11
71.98
87.95
86.3
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)


Ujjain
Concentration (µg/m³)
160
140
120
100
80
60
40
20
0
96.43
97.88
127.36
141.51
39.55
44.74
47.64
54.42
2019
2020
2021
2022
PM₁₀ (µg/m³)
PM₁₀ Annual Standards (60 µg/m³)
PM₂.₅ (µg/m³)
PM₂.₅ Annual Standards (40 µg/m³)


City wise CAAQMS Operational Days - year 2022
No of operational Days
400
350
300
250
200
150
100
50
0
Anuppur, Collectorate
Betul , Collector Office
Bhopal, T T Nagar
Bhopal, Paryavaran Parisar
Damoh, Shrivastav Colony
Dewas, Govt. MG Hospital
Dewas, Bhopal Chauraha
Gwalior, Maharaj bada
Gwalior, Phool Bagh
Gwalior, City Center
Gwalior, DD Nagar
Indore, Chhoti Gwaltoli
Jabalpur, Marhatal
Katni, Gole Bazar
Katni, Regional Office
Khargone, Nagar Palika
Maihar , Sharda Temple
Mandideep, Sector New Industrial Area
Narsinghpur, District Education Office
Neemuch, Civil Hospital
Pithampur, Sector-2 Industrial Area
Ratlam, Shathri Nagar
Rewa, Regional Office
Rewa, Collector Office
Sagar, Deen Dayal Nagar
Sagar, Collectorate Office
Satna, Bandhavgar Colony
Singrauli, Trauma Centre Waidhan
Singrauli, Surya Kiran Bhawan Dudhichua
Ujjain, Mahakaleshwar Temple
City