

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

RAJYA SABHA
UNSTARRED QUESTION No. 236
TO BE ANSWERED ON 08.12.2022

National Clean Air Programme

236. SHRI PRABHAKAR REDDY VEMIREDDY:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) details of cities, out of identified 132, under National Clean Air Programme which have shown improvement in air quality in 2021-22 and till November, 2022, State-wise;
- (b) whether PM 2.5 is the benchmark set internationally for measuring air quality;
- (c) if so, whether all the cities which have shown improvement have achieved PM 2.5; and
- (d) if not, the details of air quality achieved by above cities and by when they are going to achieve PM 2.5?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(SHRI ASHWINI KUMAR CHOUBEY)

(a), (b), (c) & (d):

Under National Clean Air Programme (NCAP), 131 cities have been provided annual targets for reducing PM₁₀ concentrations. Improvement in air quality of cities under NCAP is compiled annually and compared against annual average of base year. 95 cities out of 131 cities have shown improvement in air quality in terms of annual PM₁₀ concentrations in FY 2021-22 with respect to the baseline of FY 2017-18. 20 cities have met National Ambient Air Quality Standards (NAAQS) for PM₁₀ (60 µg/m³) in FY 2021-22 as compared to 4 cities in FY 2017-18.

Details of 95 cities are enclosed at **Annexure-I**.

MoEFCC has notified National Ambient Air Quality Standards (NAAQS) for 12 categories of pollutants for measuring air quality. These parameters include Particulate Matter 10 (PM₁₀), Particulate Matter 2.5 (PM_{2.5}), Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Carbon Monoxide (CO), Ozone (O₃), Ammonia (NH₃), Lead (Pb), Benzene (C₆H₆), Benzo (a) Pyrene (BaP), Arsenic and Nickel.

Further, 42 cities have met National Ambient Air Quality Standard w.r.t. PM_{2.5} concentrations (40 µg/m³). Details are enclosed at **Annexure-II**.

Annexure-I

Details of improvement of air quality in 95 cities under National Clean Air Programme (NCAP)

Sl.No.	State	Name of City	Average concentration (F.Y.) of PM ₁₀ (µg/m ³)	Average concentration (F.Y.) of PM ₁₀ (µg/m ³)
			FY 2017-18	FY 2021-22
1	Andhra Pradesh	Anantpur	78	52
2		Chittur	70	49
3		Eluru	72	65
4		Guntur	66	58
5		Kadapa	75	54
6		Kurnool	79	61
7		Nellore	64	55
8		Ongole	65	52
9		Rajamahendravaram	85	68
10		Vijayawada	91	67
11		Vizhianagaram	72	71
12	Assam	Silchar	49	45
13		Sivasagar	73	47
14	Bihar	Patna	172	145
15	Chandigarh	Chandigarh	114	97
16	Chhattisgarh	Durg Bhilainagar	86	58
17		Raipur	70	61
18	Delhi	Delhi	241	196
19	Rajasthan	Ahmedabad	164	113
20		Rajkot	150	116

21		Surat	130	100
22		Vadodara	133	121
23	Himachal Pradesh	Baddi	174	132
24		Kala Amb	118	114
25		Nalagarh	146	84
26		Parwanoo	66	35
27		Sunder Nagar	78	47
28		Jharkhand	Dhanbad	315
29	Jamshedpur		135	110
30	Ranchi		141	110
31	Karnataka	Bengaluru	92	67
32		Devangere	74	57
33		Hubli-Dharwad	79	68
34	Madhya Pradesh	Dewas	83	81
35		Gwalior	126	109
36	Maharashtra	Akola	111	64
37		Amravati	102	66
38		Badlapur	160	94
39		Chandrapur	118	104
40		Greater Mumbai	161	106
41		Jalgaon	70	59
42		Jalna	99	93
43		Kolhapur	89	81
44		Latur	82	57
45		Nagpur	100	68
46		Nashik	82	59

47		Pune	102	85
48		Sangli	87	60
49		Solapur	81	60
50		Thane	138	130
51		Ulhasnagar	153	77
52	Nagaland	Dimapur	142	84
53		Kohima	127	69
54	Odisha	Balasore	84	74
55		Cuttack	93	90
56		Talcher	113	81
57	Punjab	Amritsar	189	118
58		Dera Baba Nanak	79	71
59		Jalandhar	178	130
60		Khanna	142	106
61		Ludhiana	168	150
62		Mandi Gobindgarh	148	122
63		Naya Nangal	87	70
64	Rajasthan	Jaipur	172	126
65		Alwar	152	112
66		Jodhpur	189	161
67		Kota	139	112
68		Udaipur	127	122
69	Tamilnadu	Chennai	66	57
70		Madurai	72	53
71		Trichy	88	45
72		Tuticorin	123	67

73	Telangana	Hyderabad	110	88	
74		Sangareddy	85	83	
75	Uttar Pradesh	Agra	202	146	
76		Allahabad	169	119	
77		Ghaziabad	285	216	
78		Kanpur	227	170	
79		Lucknow	253	148	
80		Varanasi	230	114	
81		Anpara	175	154	
82		Bareilly	207	175	
83		Firozabad	247	137	
84		Gajraula	204	155	
85		Gorakpur	150	122	
86		Khurja	195	173	
87		Moradabad	222	155	
88		Noida	229	203	
89		Raebareli	145	112	
90		Uttarakhand	Dehradun	250	146
91			Rishikesh	129	117
92	West Bengal	Asansol	147	112	
93		Barrackpore	86	85	
94		Howrah	139	125	
95		Kolkata	147	105	

Annexure – II

Details of 42 cities meeting National Ambient Air Quality Standard w.r.t. PM_{2.5} concentrations

Sl.No.	State / Union Territory	City / Town	Annual average of PM _{2.5} in FY 2021-22 (µg/m ³)
1.	Andhra Pradesh	Anatapur	30
2.		Chittor	25
3.		Guntur	29
4.		Kadapa	26
5.		Kurnool	26
6.		Nellore	23
7.		Ongole	18
8.		Rajahmundry/Rajamahendravaram	33
9.		Srikakulam	27
10.		Vijayawada	34
11.		Vizianagaram	27
12.	Chattisgarh	Durg-Bhillainagar	31
13.	Gujarat	Rajkot	30
14.		Surat	35
15.		Vadodara	30
16.	Himachal Pradesh	Damtal	33
17.		Nalagarh	29
18.		Parwanoo	11
19.		Sunder Nagar	23
20.	Jammu & Kashmir	Jammu	31
21.		Srinagar (K)	32
22.	Karnataka	Bangalore	31
23.		Devanagere	15
24.		Hubli-Dharwad	29
25.	Madhya Pradesh	Dewas	37
26.		Sagar	34
27.	Maharashtra	Aurangabad	34
28.		Nagpur	36
29.		Nashik	40
30.		Solapur	36
31.	Meghalaya	Byraihat	30
32.	Nagaland	Kohima	33
33.	Odisha	Angul	36
34.		Bhubaneshwar	36
35.		Cuttack	35
36.		Talcher	40
37.	Tamilnadu	Chennai	26
38.		Madurai	25
39.		Trichy	19
40.		Tuticorin / Thoothukudi	21
41.	Telangana	Hyderabad	39
42.		Nalgonda	28

