

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

LOKSABHA
UNSTARRED QUESTION No. 1980
TO BE ANSWERED ON 13.03.2023

National Clean Air Programme

1980. SHRI VINOD L. CHAVDA,
SHRI ARUN SAO,
MS. RAMYA HARIDAS,
SHRI SUDHAKAR TUKARAM SHRANGARE:

Will the MINISTER OF ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- a) the total number of cities covered under National Clean Air Programme (NCAP) at present, State-wise including Chhattisgarh;
- b) the number of cities covered under NCAP, which did not meet the prescribed National Ambient Air Quality standards at present;
- c) the details of funds sanctioned and utilized under the National Clean Air Programme (NCAP) in all the selected cities, from 2019 till date, year and city-wise;
- d) the details of projects undertaken and completed under NCAP to reduce concentration of particulate matter;
- e) whether Government is on track to meet its target of reduction of PM 10 and PM 2.5 by 20 to 30 per cent by 2024 and if so, the details thereof with 2017 as the base year and if not, the reasons therefor; and
- f) the fresh steps taken by the Government for strengthening the air quality monitoring net work, reducing vehicular and industrial emissions increasing public awareness etc.?

ANSWER

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

(a), (b), (c), (d), (e) & (f): Ministry of Environment Forest & Climate Change (MoEF&CC) launched National Clean Air Programme (NCAP) in January, 2019, with an objective to improve air quality in Non-attainment cities. It is a time-bound, national level strategy for prevention, control and abatement of air pollution in 131 cities across 24 States. State-wise list of 131 cities including cities of Chhattisgarh is enclosed at **Annexure-I**.

Under the programme, cities are required to undertake air quality improvement measures as part of Clean Air Action Plans. Year-wise details of funds released to 131 cities and utilisation under NCAP are enclosed at **Annexure-II**. Out of 131 NCAP cities, 95 cities have shown improvement in air quality in terms of Particulate Matter 10 (PM10) concentrations in FY 2021-22 with respect to base year FY 2017-18. 20 cities have met ambient air quality

standard for Particulate Matter¹⁰ (PM₁₀) in the FY 2021-22. Detail of air quality status of 95 cities are enclosed at **Annexure-III**.

Steps taken by the Government for air quality monitoring network, reducing vehicular and industrial emissions and increasing awareness are provided at **Annexure-IV**.

Annexure-I: List of 131 cities under NCAP

S. N	State	City
1.	Andhra Pradesh (13)	Anantapur*
2.		Chittoor
3.		Eluru
4.		Guntur
5.		Kadapa
6.		Kurnool
7.		Nellore
8.		Ongole
9.		Rajahmundry
10.		Srikakulam
11.		Vijaywada*
12.		Vishakhapatnam*
13.		Vizianagaram
14.	Assam (5)	Guwahati
15.		Nagaon
16.		Nalbari
17.		Sibsagar
18.		Silcher
19.	Bihar (3)	Gaya
20.		Muzzaffarpur
21.		Patna*
22.	Chandigarh (1)	Chandigarh
23.	Chhattisgarh (3)	*DurgBhillainagar
24.		Korba
25.		*Raipur
26.	Delhi (1)	Delhi
27.	Gujarat (4)	Ahmedabad*

28.		Surat*
29.		Vadodara*
30.		Rajkot*
31.	Himachal Pradesh (7)	Baddi
32.		Damtal
33.		Kala Amb
34.		Nalagarh
35.		Paonta Sahib
36.		Parwanoo
37.		Sunder Nagar
38.	Jammu & Kashmir (2)	Jammu
39.		Srinagar
40.	Jharkhand (3)	Dhanbad*
41.		Jamshedpur*
42.		Ranchi*
43.	Karnataka (4)	Bangalore*
44.		Devangere
45.		Gulburga
46.		Hubli-Dharwad
47.	Madhya Pradesh (7)	Bhopal*
48.		Dewas
49.		Gwalior*
50.		Indore*
51.		Jabalpur*
52.		Sagar
53.		Ujjain
54.	Maharashtra (19)	Akola
55.		Amravati
56.		Aurangabad*

57.		Badlapur*
58.		Chandrapur
59.		Jalgaon
60.		Jalna
61.		Kolhapur
62.		Latur
63.		Mumbai*
64.		Nagpur*
65.		Nashik*
66.		Navi Mumbai*
67.		Pune (Hadapsar&Mohammadwadi)*
68.		Sangli
69.		Solapur
70.		Thane*
71.		Vasai Virar*
72.		Ulhasnagar*
73.	Meghalaya (1)	Byrnihat
74.	Nagaland (2)	Dimapur
75.		Kohima
76.	Orissa (7)	Angul
77.		Balasore
78.		Bhubneshwar
79.		Cuttack
80.		Kalinga Nagar
81.		Rourkela
82.		Talcher
83.	Punjab (9)	Amritsar*
84.		Dera Baba Nanak
85.		DeraBassi

86.		Gobindgarh
87.		Jalandhar
88.		Khanna
89.		Ludhiana*
90.		NayaNangal
91.		Patiala
92.		Alwar
93.		Jaipur*
94.	Rajasthan (5)	Jodhpur*
95.		Kota*
96.		Udaipur
97.		Trichy*
98.	Tamil Nadu (4)	Tuticorin
99.		Chennai*
100.		Madurai*
101.		Hyderabad*
102.		Nalgonda
103.	Telangana (4)	Patencheruvu*
104.		Sangareddy
105.		Agra*
106.		Allahabad*
107.		Anpara
108.		Bareily
109.		Firozabad
110.	Uttar Pradesh (17)	Gajraula
111.		Ghaziabad*
112.		Gorakhpur
113.		Jhansi
114.		Kanpur*

115.		Khurja
116.		Lucknow*
117.		Moradabad
118.		Noida
119.		Raebareli
120.		Varanasi*
121.		Meerut*
122.		Dehradun
123.	Uttarakhand (3)	Kashipur
124.		Rishikesh
125.		Asansol*
126.		Barrackpore*
127.		Durgapur
128.	West Bengal (6)	Haldia
129.		Howrah*
130.		Kolkata*
131.	Haryana (1)	Faridabad*

* cities funded under XVth Finance Air quality performance grant

Annexure-II

Details of city-wise release and utilisation of funds under NCAP

Sl No.	City	Fund Released under NCAP (Rs. in crore)					Utilisation (in Rs. Crore)
		FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	Total	
1	Srikakulam	0.00	2.00	0.49	0.73	3.22	2.49
2	Chittoor	0.00	2.00	0.46	1.21	3.67	2.46
3	Ongole	0.00	2.00	0.64	1.70	4.34	2.64
4	Vizianagaram	0.00	2.00	0.83	1.23	4.06	2.83
5	Eluru	0.00	2.00	0.82	1.22	4.04	2.82
6	Rajamahendravaram	0.00	2.00	1.13	1.69	4.82	3.38
7	Anantapur	0.00	2.00	1.04	3.03	6.07	3.04
8	Kadapa	0.00	1.00	0.83	1.23	3.06	1.83
9	Vijayawada*	6.00	62.00	38.85	24.00	130.85	6.06
10	Guntur	0.12	0.76	1.96	2.92	5.76	2.84
11	Kurnool	0.06	0.76	1.36	2.03	4.21	2.18
12	Nellore	0.06	0.76	1.92	5.57	8.31	2.74
13	Visakhapatnam*	0.12	73.00	27.75	28.50	129.37	0.12
14	Guwahati	0.12	5.00	0.00	18.34	23.46	3.98
15	Nagaon	0.06	2.00	0.00	1.32	3.38	1.57
16	Nalbari	0.06	2.00	0.00	0.45	2.51	1.34
17	Sibsagar	0.06	2.00	0.00	0.64	2.70	1.57
18	Silchar	0.06	1.00	0.00	0.45	1.51	1.51
19	*Patna	10.0	204.00	84.57	0.00	298.57	9.38
20	Gaya	0.10	2.00	1.90	2.80	6.80	4.00
21	Muzaffarpur	0.10	5.00	2.50	3.76	11.36	7.60
22	Chandigarh	8.28	5.00	4.61	5.16	23.05	17.45
23	Delhi	0.00	0.00	11.25	22.50	33.75	11.25
24	*Raipur	6.00	55.00	35.35	29.00	125.35	13.06
25	*Bhilainagar	6.00	52.00	33.35	27.00	118.35	
26	Korba	0.06	1.00	0.00	1.94	3.00	
27	*Surat	6.00	131.00	72.43	51.75	261.18	6.00
28	*Ahmedabad	6.00	182.00	92.00	71.25	351.25	6.00
29	*Rajkot	0.00	40.00	27.35	15.75	83.10	0.38
30	*Vadodara	0.00	52.00	25.93	20.25	98.18	35.05
31	*Faridabad	0.00	48.00	6.25	0.00	54.25	8.53
32	Baddi	0.06	3.00	0.20	0.52	3.78	3.00
33	Nalagarh	0.06		0.06	0.57	0.69	
34	Paonta Sahib	0.06	1.00	0.10	0.45	1.61	0.79
35	Sunder Nagar	0.06	1.00	0.08	0.66	1.80	1.05

36	Damtal	0.00	1.00	0.01	0.45	1.46	0.71
37	Parwanoo	0.00	1.00	0.03	0.49	1.52	1.00
38	Kala Amb	0.00	3.00	0.00	0.45	3.45	2.71
39	Jammu	0.12	3.00	4.89	7.29	15.30	1.94
40	Srinagar	0.00	5.00	7.95	22.78	35.73	3.20
41	*Dhanbad	6.00	52.00	11.09	0.00	69.09	3.00
42	*Jamshedpur	0.00	58.00	36.35	22.50	116.85	5.41
43	*Ranchi	0.00	49.00	25.00	19.50	93.50	10.66
44	*Bangalore	6.00	279.00	147.35	108.75	541.10	0
45	Gulburga	0.12	0.38	2.24	4.20	6.94	2.74
46	Hubli-Dharwad	0.12	0.38	3.68	7.56	11.74	4.18
47	Devanagere	0.06	0.76	1.40	3.06	5.28	2.22
48	*Bhopal	10.00	88.00	51.35	34.50	183.85	123.3
49	*Gwalior	10.00	51.00	13.85	20.25	95.10	46.32
50	*Indore	0.20	101.00	51.00	39.75	191.95	152.68
51	*Jabalpur	0.00	59.00	30.00	23.35	112.35	59
52	Ujjain	0.20	0.38	2.33	3.47	6.38	0.57
53	Sagar	0.10	0.76	1.34	2.02	4.22	0.86
54	Dewas	0.10	0.38	1.33	3.53	5.34	0.45
55	*Mumbai	9.50	488.00	250.59	190.50	938.59	7.74
56	*Nagpur	9.45	66.00	40.35	26.25	142.05	2.86
57	*Navi Mumbai	9.45	0.00	0.00	0.00	9.45	2.19
58	*Pune	9.45	134.00	75.35	52.50	271.30	8.77
59	Amravati	0.20	1.14	2.91	11.12	15.37	0.83
60	*Aurangabad	0.20	32.00	23.35	12.75	68.30	0.18
61	*Nashik	0.20	41.00	28.35	22.00	91.55	0.14
62	Kolhapur	0.20	0.76	0.00	9.33	10.29	0.10
63	Sangli	0.20	0.76	1.72	6.66	9.34	1.11
64	Solapur	0.20	0.38	4.20	18.32	23.10	0.40
65	*Ulhasnagar	0.20	1.90	0.00	0.00	2.10	1.34
66	Akola	0.10	1.14	1.47	5.00	7.71	0.85
67	*Badlapur	0.10	1.90	0.00	0.00	2.00	1.34
68	Chandrapur	0.10	1.14	0.00	2.96	4.20	0.11
69	Jalgaon	0.10	0.76	0.00	2.66	3.52	0.76
70	Jalna	0.10	1.14	0.00	3.24	4.48	0.74
71	Latur	0.10	0.38	1.60	6.54	8.62	0.46
72	*Thane	0.00	0.00	0.00	0.00	0.00	0
73	*Vasai-virar	0.00	32.00	23.35	17.00	72.35	3.4
74	<u>Byrnihat</u>	0.00	3.00	0.00	0.11	3.11	1.97
75	Dimapur	0.06	3.00	0.53	1.79	5.38	3.59
76	Kohima	0.06	3.00	0.40	1.56	5.02	3.46
77	Kalinga Nagar	0.00	3.00	0.00	0.45	3.45	3.00
78	Cuttack	6.00	0.00	3.42	12.28	21.70	7.96
79	Bhubaneswar				14.87	14.87	
80	Balasore	0.06	0.76	0.00	2.30	3.12	1.01
81	Rourkela	0.06	1.14	0.00	7.25	8.45	1.20

82	Talcher	0.06	1.14	0.22	0.92	2.34	1.96
83	Angul				0.45	0.45	
84	*Ludhiana	6.00	52.00	19.50	20.25	97.75	28.1
85	*Amritsar	6.00	38.00	14.25	15.00	73.25	8.81
86	Jalandhar	0.12	4.00	0.00	10.63	14.75	0.27
87	Khanna	0.06	1.90	0.00	1.40	3.36	0.51
88	Gobindgarh	0.06	3.00	0.00	1.84	4.90	0.23
89	Naya Nangal	0.06	1.00	0.00	1.01	2.07	0.08
90	Pathankot/Dera Baba	0.06	0.76	0.00	1.91	2.73	0.25
91	Patiala	0.06	4.00	0.00	4.49	8.55	0.40
92	Dera Bassi	0.06	0.38	0.00	0.45	0.89	0.41
93	*Jaipur	6.00	165.00	90.35	64.50	325.85	5.83
94	*Jodhpur	6.00	62.00	12.34	0.00	80.34	4.71
95	*Kota	6.00	54.00	20.20	21.00	101.20	24.52
96	Alwar	0.06	1.90	0.00	7.66	9.62	1.50
97	Udaipur	0.06	1.90	0.00	10.60	12.56	1.52
98	*Chennai	0.00	181.00	91.00	95.00	367.00	272.51
99	*Madurai	0.00	31.00	22.35	16.00	69.35	46
100	*Trichy	0.00	21.00	18.35	11.00	50.35	9.763
101	Tuticorn/Thoothukudi	0.06	3.00	0.00	4.13	7.19	2.38
102	*Hyderabad	10.8	234.00	118.00	91.50	454.30	283.61
103	Nalgonda	0.1	0.38	0.47	0.70	1.65	0.95
104	*Patancheru	0.1	0.38	0.00	0.00	0.48	0.48
105	Sangareddy	0	2.00	0.32	0.65	2.97	1.90
106	*Agra	9.45	90.00	11.25	35.25	145.95	35.82
107	*Allahabad/Prayagraj	9.45	62.00	38.35	32.00	141.80	54.21
108	*Kanpur	9.45	148.00	63.60	0.00	221.05	126.73
109	*Lucknow	9.45	148.00	25.18	77.00	259.63	128.8
110	*Varanasi	9.47	73.00	35.10	38.00	155.57	14.62
111	*Meerut	0.00	72.00	13.59	28.50	114.09	27.58
112	*Ghaziabad	0.00	121.00	15.25	0.00	136.25	39.78
113	Moradabad	0.2	1.90	0.00	30.85	32.95	1.38
114	Bareilly	0.2	1.90	0.00	21.40	23.50	2.10
115	Firozabad	0.2	1.90	0.00	17.50	19.60	1.60
116	Jhansi	0.2	1.14	0.00	5.30	6.64	1.09
117	Khurja	0.1	1.90	0.00	6.47	8.47	1.60
118	Anpara	0.1	1.14	0.00	0.66	1.90	0.52
119	Gajraula	0.1	1.14	0.00	2.26	3.50	0.52
120	Raebareli	0.1	1.14	0.00	5.46	6.70	0.83
121	Gorakhpur	0.00	0.00	9.64	25.90	35.54	0
122	Noida	0.00	0.00	6.67	14.20	20.87	0
123	Kashipur	0.06	3.00	0.79	2.40	6.25	3.15
124	Rishikesh	0.06	5.00	0.00	2.50	7.56	2.83
125	Dehardun	0.00	3.00	4.88	17.40	25.28	2.18

126	*Kolkata	6.00	385.00	145.50	150.75	687.25	217.6
127	*Howrah	0.00	5.00	0.00	0.00	5.00	4.99
128	Haldia	0.00	3.00	0.00	1.49	4.49	3.76
129	Durgapur	0.00	3.00	0.00	7.68	10.68	3.84
130	*Barrackpore	0.00	2.00	0.00	0.00	2.00	1.86
131	*Raniganj/Asansol UA	0.00	34.00	20.10	13.50	67.60	0
		224.9	4550.5	2122.0	2018.5	8916.0	2019.48
		2	2	4	2	0	

Annexure-III**Details of air quality of status of 95 cities under NCAP**

Sl. No.	Name of City	Average concentration of PM₁₀ (µg/m³) (FY 2017-18)	Average concentration of PM₁₀ (µg/m³) (FY 2021-22)
1	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	Silchar	49	45
13	Sivasagar	73	47
14	Patna	172	145
15	Chandigarh	114	97
16	Durg Bhilainagar	86	58
17	Raipur	70	61
18	Delhi	241	196
19	Ahmedabad	164	113
20	Rajkot	150	116

21	Surat	130	100
22	Vadodara	133	121
23	Baddi	174	132
24	Kala Amb	118	114
25	Nalagarh	146	84
26	Parwanoo	66	35
27	Sunder Nagar	78	47
28	Dhanbad	315	235
29	Jamshedpur	135	110
30	Ranchi	141	110
31	Bengaluru	92	67
32	Devangere	74	57
33	Hubli-Dharwad	79	68
34	Dewas	83	81
35	Gwalior	126	109
36	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	Dimapur	142	84
53	Kohima	127	69
54	Balasore	84	74
55	Cuttack	93	90
56	Talcher	113	81
57	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	Jaipur	172	126
65	Alwar	152	112
66	Jodhpur	189	161
67	Kota	139	112
68	Udaipur	127	122
69	Chennai	66	57
70	Madurai	72	53
71	Trichy	88	45
72	Tuticorin	123	67
73	Hyderabad	110	88
74	Sangareddy	85	83

75	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	Dehradun	250	146
91	Rishikesh	129	117
92	Asansol	147	112
93	Barrackpore	86	85
94	Howrah	139	125
95	Kolkata	147	105

Annexure-IV: Steps taken by the Government for setting up of air quality monitoring network, reducing vehicular and industrial emissions and increasing awareness

Air Quality Monitoring Network

- i. Strengthening of air quality monitoring network is one of the key components under NMCA
- ii. Alternate monitoring techniques such as low-cost sensor & satellite based monitoring will be assessed and established for indicative air quality monitoring. Real time or manual monitoring through low cost monitoring system and speciation of the pollutants to obtain temporal variation for planning the mitigation /abatement measures. Pilot studies to identify reliable low cost monitors for pan India implementation shall be carried out by CPCB.
- iii. Rationalized representation of urban, semi-urban, rural, industrial and eco-sensitive zones shall be ensured. The air quality monitoring data will be collated in real time as well as with defined frequency for manual stations for analysis and policy interventions, identification of areas of concern, prioritizing the abatement and control measures for air quality improvement.
- iv. Super sites for monitoring (for associated parameter) will be required to provide a comprehensive analysis of the air quality with the help of State/UT governments and SPCBs/ PCCs.

Vehicular Pollution: Steps to mitigate air pollution due to vehicular emissions are:

- i. Promotion of cleaner fuels
 - Bharat Stage (BS) VI norms have been launched from April 1, 2020. Pan India implementation of BS-VI standards vehicles & fuels shall significantly control emissions from transport sector.
 - Formulation of national, state and city-specific action plans for e-mobility – with an integral component for management of battery scrap.
 - Rapid augmentation of charging infrastructure in the country focusing non-attainment cities.
 - LNG/CNG in transport vehicles as fuel
 - Support alternate fuel research and pilot implementation – Hydrogen, Biodiesel/ Ethanol Blends
 - Strategy to check fuel adulteration
- ii. Strengthen Inspection and Maintenance System
 - IT based stringent implementation of PUC certificate through regular inspection and monitoring.
 - Increased monitoring of vehicles for both emissions as well as overloading.
- iii. Augment Public Transportation
 - States/ ULBs shall plan / promote such public transport systems in 132 cities concerned under the Missions, which are environment friendly, energy efficient and causing low carbon emissions conforming to SDGs
 - Cities shall make endeavour to achieve appropriate service level benchmark as prescribed by MoHUA by augmenting city bus service for increasing share of public transport

- Improve last mile connectivity to public transportation networks such as metro stations.
- Develop infrastructure for non-motorised transport (NMT) and incentivise use of NMT through schemes such as dedicated parking.
- iv. Fleet modernization and retro-fitment programmes with control devices.
 - Government-run buses for public transport, private buses, 3-wheelers and 2-wheelers to be converted to EVs.
 - Central government offices fleets older than 15 years to be shifted to electric vehicles.
 - Phasing out of old vehicles
 - Strategize robust vehicle scrapping programme.
- v. Identification traffic hotspots and planning of alternate routes/ bypass/ expressways to manage non-destined traffic in cities.
- vi. Robust parking policy and parking infrastructure to ensure free flowing traffic.

Industrial Pollution

To address the issue of industrial pollution, following activities will be focused under NMCA:

- i. Shifting of industries to PNG / cleaner fuels on a time bound basis.
- ii. Replacement of heavy oil (e.g., furnace oil, diesel, etc.) based industries to alternate energy sources (CNG/PNG/LNG/Electricity)
- iii. Stringent enforcement of emission standards
- iv. Installation of OCEMS
- v. Increased frequency of monitoring and enforcement activities
- vi. Scientific study to develop stringent norms for polluting industries
- vii. Close monitoring of waste to energy plants
- viii. Development of regional/ city specific emissions standards for all industries
- ix. Emission Trading Scheme to be implemented to reduce load of pollutants from industrial sectors.
- x. Formulation and implementation of state fuel policy for industrial sector
- xi. Restriction on establishment and operation of polluting nature of industries under jurisdiction of that ULB.
- xii. Incentive to industries for switching over to the clean fuel
- xiii. Development of Industrial Areas / Zones to facilitate shifting/relocation of industrial units operating in non-conforming areas to conforming areas.

Public Awareness:

A comprehensive Guideline for Capacity Building and Public Outreach for prevention, control and mitigation of air pollution under NCAP for concerned city, state and central government agencies is prepared and available on portal. The objective of these guidelines is to prescribe the strategy for carrying out capacity building and public outreach at city, state and national level under NCAP. These guidelines under NCAP will be applicable for the period of five years from FY 2021-22 to FY 2025-26.

