

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

LOK SABHA
UNSTARRED QUESTION No. 973
TO BE ANSWERED ON 18.09.2020

Most Polluted Cities

973. SHRI PRATAPRAO JADHAV:

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

- (a) the details of the most polluted cities across the country, State-wise;
- (b) the current levels of pollution in each of these cities, State-wise;
- (c) whether the Government has conducted/proposes to conduct any study in this regard;
- (d) if so, the details thereof; and
- (e) the steps taken by the Government to check increasing levels of pollution in various cities during the last three years and till date?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(SHRI BABUL SUPRIYO)

(a) & (b)

Based on the air quality data for the period from 2014 to 2018, 122 non-attainment cities have been identified. State-wise list along with air quality data of these cities is given at **Annexure-I**.

(c) to (e)

Ambient air quality is monitored at 793 locations covering 344 cities in 28 States & 7 Union Territories (UTs) across the country under National Air Quality Monitoring Programme (NAMP). Under NAMP, PM_{2.5} is monitored at 274 locations covering 132 cities. BS-VI standards for both fuel as well as vehicles. Important measures taken by government includes:

- Stringent emission norms for Coal based Thermal Power Plants (TPPs).
- Pet coke and furnace oil banned as fuel in Delhi and NCR States. Import of pet coke to be done by industries using it as a feedstock/in process across the country.
- Revision of emission standards for industrial sectors from time to time. SO_x and NO_x standards for boilers have been introduced.
- In order to prevent stubble burning, a new Central Sector Scheme on 'Promotion of Agricultural Mechanization for In-Situ Management of Crop Residue in the States of Punjab, Haryana, Uttar Pradesh and NCT of Delhi' is implemented by Ministry of Agriculture and Farmers' Welfare with the total outgo from the Central funds of Rs.

1178.47 crore. A reduction of about 18.8% and 31% in active fire incidents in Punjab, Haryana and Uttar Pradesh has been recorded in 2019 over the figures for 2018 and 2017, respectively.

- Notifications of 6 waste management rules covering solid waste, plastic waste, e-waste, bio-medical waste, C&D waste and hazardous wastes issued in 2016.
- Ban on burning of biomass/garbage.
- SoPs and notification regarding dust mitigation measures for construction and demolition activities have been issued.
- National Air Quality Index introduced based on National Ambient Air Quality Standards for creating awareness.
- Implementation of Air Quality Early Warning System for Delhi in October, 2018 in association with Ministry of Earth Sciences (MoES). The system provides timely alerts to implementing agencies for facilitating proactive actions.
- Ministry of Environment, Forest and Climate Change has launched National Clean Air Programme (NCAP) in January 2019 to tackle the problem of air pollution in a comprehensive manner with targets to achieve 20 to 30 % reduction in particulate matter concentrations by 2024 keeping 2017 as base year. The plan includes 122 non-attainment cities, across 23 States and Union Territories, on the basis of their ambient air quality data.

Annexure I**List of 122 Non-Attainment cities**

State	S. No.	City	PM10 Annual average ($\mu\text{g}/\text{m}^3$)				
			2014	2015	2016	2017	2018
Andhra Pradesh	1.	Anantapur	76	88	85	78	71
	2.	Chittoor	65	67	62	69	62
	3.	Eluru	121	77	70	74	67
	4.	Guntur	79	100	88	69	60
	5.	Kadapa	78	70	68	74	61
	6.	Kurnool	77	82	69	82	66
	7.	Nellore	63	66	66	65	63
	8.	Ongole	63	67	65	65	66
	9.	Rajahmundry	64	62	64	65	94
	10.	Srikakulam	69	73	71	70	71
	11.	Vijaywada	100	109	102	99	77
	12.	Vishakhapatnam	64	61	77	73	77
	13.	Vizianagaram	69	74	85	72	65
Assam	14.	Guwahati	88	97	105	106	112
	15.	Nagaon	100	137	111	75	96
	16.	Nalbari	76	120	108	95	97
	17.	Sibsagar	90	70	75	81	72
	18.	Silcher	80	72	58	49	49
Bihar	19.	Gaya	-	-	-	77	89
	20.	Muzzaffarpur	-	-	-	167	139
	21.	Patna	183	201	212	156	207
Chandigarh	22.	Chandigarh	91	85	105	109	102
Chhattisgarh	23.	DurgBhillainagar	108	109	108	97	80
	24.	Korba	72	66	58	58	59
	25.	Raipur	329	188	148	103	65
Delhi	26.	Delhi	217	220	278	241	223
Gujarat	27.	Ahmedabad	84	89	108	120	236
	28.	Surat	89	89	92	106	176
	29.	Vadodara	87	87	92	108	188
Himachal Pradesh	30.	Baddi	109	101	90	173	164
	31.	Damtal	97	105	84	62	62
	32.	Kala Amb	138	118	128	119	104
	33.	Nalagarh	109	89	108	147	148
	34.	Paonta Sahib	128	117	101	84	88
	35.	Parwanoo	66	61	69	65	63
	36.	Sunder Nagar	87	83	92	73	84
Jammu & Kashmir	37.	Jammu	123	125	131	149	165
	38.	Srinagar	-	-	-	-	153
Jharkhand	39.	Dhanbad	166	168	226	238	264
Karnataka	40.	Bangalore	139	119	103	92	90
	41.	Devangere	85	109	94	87	44
	42.	Gulburga	77	95	60	54	55
	43.	Hubli-Dharwad	90	75	84	79	75
Madhya Pradesh	44.	Bhopal	160	85	89	93	134
	45.	Dewas	93	125	89	75	68
	46.	Gwalior	144		96	110	134
	47.	Indore	143	97	95	80	88
	48.	Sagar	161	103	79	69	75
	49.	Ujjain	97	93	90	75	83
Maharashtra	50.	Akola	135	128	126	127	73
	51.	Amravati	107	108	100	106	104
	52.	Aurangabad	85	83	92	83	70
	53.	Badlapur	122	105	125	159	144
	54.	Chandrapur	129	102	111	146	149
	55.	Jalgaon	116	108	103	77	74

State	S. No.	City	PM10 Annual average ($\mu\text{g}/\text{m}^3$)				
			2014	2015	2016	2017	2018
	56.	Jalna	137	118	109	101	103
	57.	Kolhapur	100	97	96	90	90
	58.	Latur	90	78	81	81	95
	59.	Mumbai	96	106	119	151	167
	60.	Nagpur	103	90	118	102	102
	61.	Nashik	72	78	85	81	85
	62.	Navi Mumbai	151	125	118	105	71
	63.	Pune	92	99	107	102	106
	64.	Sangli	100	77	83	76	84
	65.	Solapur	76	74	74	64	71
	66.	Thane	109	117	122	125	108
67.	Ulhasnagar	107	107	118	149	122	
Meghalaya	68.	Byrnihat	136	122	175	174	166
Nagaland	69.	Dimapur	129	122	121	138	134
	70.	Kohima	91	93	90	114	104
Odisha	71.	Angul	116	102	97	94	101
	72.	Balasore	87	82	85	83	86
	73.	Bhubneshwar	90	81	105	91	99
	74.	Cuttack	92	81	81	86	114
	75.	Kalinga Nagar	94	100	113	126	118
	76.	Rourkela	83	100	75	117	108
	77.	Talcher	124	135	105	96	110
Punjab	78.	Amritsar	145	148	194	168	177
Punjab	79.	Dera Baba Nanak	68	77	89	90	89
	80.	DeraBassi	113	96	98	93	95
	81.	Gobindgarh	135	130	124	136	121
	82.	Jalandhar	144	151	186	223	153
	83.	Khanna	160	122	114	139	135
	84.	Ludhiana	146	139	139	162	168
	85.	NayaNangal	85	83	91	90	91
	86.	Patiala	104	110	106	101	98
Rajasthan	87.	Alwar	240	180	144	134	182
	88.	Jaipur	150	171	199	177	159
	89.	Jodhpur	190	152	168	180	219
	90.	Kota	127	134	109	130	152
	91.	Udaipur	112	156	138	126	147
Tamilnadu	92.	Trichy	84	85	95	86	110
	93.	Tuticorin	83	91	175	132	101
Telangana	94.	Hyderabad	95	93	101	108	105
	95.	Nalgonda	93	76	61	60	60
	96.	Patencheru	95	85	78	78	80
	97.	Sangareddy	96	70	70	79	81
Uttar Pradesh	98.	Agra	178	186	198	185	208
	99.	Allahabad	250	251	196	140	231
	100.	Anpara	131	136	132	153	188
	101.	Bareilly	239	240	253	195	228
	102.	Firozabad	146	194	223	221	226
	103.	Gajraula	179	177	193	206	224
	104.	Ghaziabad	242	260	235	280	244
	105.	Jhansi	106	119	116	113	96
	106.	Kanpur	199	196	217	224	217
	107.	Khurja	158	167	216	208	209
	108.	Lucknow	174	169	214	246	220
	109.	Moradabad	201	168	196	217	227
	110.	Noida	135	154	176	216	258
	111.	Raebareli	160	157	141	141	141
	112.	Varanasi	139	145	256	244	189
Uttarakhand	113.	Dehradun	165	188	241	248	217

State	S. No.	City	PM10 Annual average ($\mu\text{g}/\text{m}^3$)				
			2014	2015	2016	2017	2018
	114.	Kashipur	121	107	126	111	105
	115.	Rishikesh	122	121	119	128	133
West Bengal	116.	Asansol	84	97	211	163	146
	117.	Barrackpore	103	113	106	90	108
	118.	Durgapur	102	101	196	154	141
	119.	Haldia	136	87	103	97	99
	120.	Howrah	111	123	119	110	179
	121.	Kolkata	122	105	113	120	148
	122.	Raniganj	134	114	217	163	147