

GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

**LOK SABHA**  
**UNSTARRED QUESTION NO. 1803**  
TO BE ANSWERED ON 08.03.2016

**Air Quality Testing**

1803. SHRI DALPAT SINGH PARASTE:  
SHRI R. DHRUVA NARAYANA:  
SHRIMATI RAKSHATAI KHADSE:

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

- (a) whether the Government proposes to install the latest equipment to gauge/ check air quality in the major polluted cities in the first stage and if so, the details thereof;
- (b) the names of such cities and the criteria to be followed for installing such equipments along with the funds allocated for the purpose; and
- (c) whether the Government has assessed the testing level of pollution in the said cities, if so, the details and findings thereof?

**ANSWER**

MINISTER OF STATE (INDEPENDENT CHARGE) FOR ENVIRONMENT, FOREST AND CLIMATE CHANGE  
(SHRI PRAKASH JAVADEKAR)

(a) to (c) Technologically advanced Continuous Ambient Air Quality Monitoring Stations (CAAQMS) are operated in several major cities in India. These are operated by Central Pollution Control Board (CPCB), State Pollution Control Boards (SPCBs) / Pollution Control Committees (PCCs). Total 59 CAAQMS in 35 cities are operational in the country. The cities where presently Continuous Ambient Air Quality Monitoring Stations (CAAQMS) are operational are given at Annexure-I.

Strengthening of network of Continuous Ambient Air Quality Monitoring Stations is an ongoing process and steps have been initiated to strengthen the monitoring network in Aurangabad, Nasik, Nagpur, Ludhiana, Amritsar, Coimbatore, Ghaziabad, Vijayawada, Srinagar and Howrah. Air quality data for million plus cities including Delhi during 2012, 2013 and 2014 is given at Annexure-II. The analysis of air quality data during 2012, 2013 and 2014 with respect to SO<sub>2</sub> revealed that all cities are within the National Ambient Air Quality Standards (NAAQS). The levels of NO<sub>2</sub> (annual average) exceeded the norms in 7 cities, 8 cities and 9 cities respectively during 2012, 2013, and 2014. However, the levels of PM<sub>10</sub> (annual average) exceeded the norms in 42 cities, 41 cities and 39 cities respectively during 2012, 2013, and 2014.

**Annexure-I**

**ANNEXURE REFERRED TO IN REPLY TO PARA (a) to (c) OF THE LOK SABHA UNSTARRED QUESTION NO. 1803 DUE FOR REPLY ON 08.03.2016 REGARDING AIR QUALITY TESTING BY SHRI DALPAT SINGH PARASTE: SHRI R. DHRUVA NARAYANA: SHRIMATI RAKSHATAI KHADSE, HON'BLE MEMBERS OF PARLIAMENT.**

**Status of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in Cities**

S. No.	Name of The Project	Name of the Board	Name of the City	Status	Total No.
CAAQM Stations installed by CPCB (14 Nos)					
01.	CPCB (Operated by Own staff)	CPCB	Delhi	Installed	02
02.	Under Operation & Maintenance Contract (CPCB own Fund)		Chennai	Installed	03
			Lucknow	Installed	03
			Delhi	Installed	03
			Bangalore	Installed	03
CAAQM Stations installed under 16 Cities Project on 50:50 fund sharing basis between CPCB and SPCBs (14 Nos)					
03	16 Cities Project (On cost sharing basis: 50% by CPCB) Year 2003 – 2008	Telangana	Hyderabad	Installed	01
		Bihar	Patna	Installed	01
		Gujarat	Ahmedabad	Installed	01
		Haryana	Faridabad	Installed	01
		Jharkhand	Jharia	Installed	01
		Karnataka	Bangalore	Installed	01
		Maharashtra	Mumbai	Installed	01
			Pune	Installed	01
			Solapur	Installed	01
		Rajasthan	Jodhpur	Installed	01
		Tamil Nadu	Chennai / Tuticorin	Installed	01
		Uttar Pradesh	Agra	Installed	01
			Kanpur	Installed	01
Varanasi	Installed		01		
CAAQM Stations installed by SPCBs / PCCs (31 Nos)					
04	JICA Project	West Bengal	Kolkata	Installed	02
			Howrah	Installed	01
			Durga Pur	Installed	01
			Haldia	Installed	01
05	SPCBs/PCCs Own Fund	Tamil Nadu	Gummidipoondi	Installed	01
			Kodungaiyur	Installed	01
			Koyambedu	Installed	01
			Royapuram	Installed	01
			Perungudi	Installed	01
		Karnataka	Bangalore	Installed	01
		Maharashtra	Chandrapur	Installed	01
		Bihar	Gaya	Installed	01
			Muzaffarpur	Installed	01
		Rajasthan	Jaipur	Installed	01
		Telangana	Hyderabad	Installed	04

S. No.	Name of The Project	Name of the Board	Name of the City	Status	Total No.
		Andhra Pradesh	Vijayawada	Installed	01
			Vishakhapatnam	Installed	01
			Tirupatti	Installed	01
		Delhi P C C	Delhi	Installed	06
		Haryana	Gurgaon	Installed	01
			Rohtak	Installed	01
			Panchkula	Installed	01

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**Air quality status of million plus cities for 2012, 2013 and 2014  
(Annual average ( $\mu\text{g}/\text{m}^3$ ))**

S. No.	City	State	2012			2013			2014		
			SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>
1.	Agra	Uttar Pradesh	5	23	196*	5	21	184*	8	12	182*
2.	Ahmedabad	Gujarat	12	24	83*	12	17	79*	13	20	85*
3.	Allahabad	Uttar Pradesh	4	32	317*	5	29	235*	4	28	250*
4.	Amritsar	Punjab	15	39	202*	13	40	180*	14	42*	187*
5.	Aurangabad	Maharashtra	9	32	80*	10	37	84*	12	39	85*
6.	Bangalore	Karnataka	14	28	121*	13	26	113*	13	30	140*
7.	Bhopal	Madhya Pradesh	3	21	173*	3	26	220*	2	20	156*
8.	Chennai	Tamilnadu	12	21	57	14	22	75*	13	22	59
9.	Coimbatore	Tamilnadu	3	27	68*	4	24	56	5	25	48
10.	Delhi (DMC)	Delhi	5	59*	237*	4	66*	221*	5	61*	215*
11.	Dhanbad	Jharkhand	17	40	178*	16	40	151*	14	37	162*
12.	Faridabad	Haryana	12	38	184*	12	26	196*	13	25	197*
13.	Ghaziabad	Uttar Pradesh	30	34	248*	26	34	285*	26	39	246*
14.	Gwalior	Madhya Pradesh	13	27	329*	13	27	197*	11	17	148*
15.	Howrah	West Bengal	13	40	186*	11	45*	187*	9	35	111
16.	Hyderabad (GH)	Telangana	4	28	79*	5	24	90*	5	24	98*
17.	Indore	Madhya Pradesh	12	20	143*	11	19	156*	11	20	144*
18.	Jabalpur	Madhya Pradesh	2	24	75*	2	23	69*	2	23	69*
19.	Jaipur	Rajasthan	9	52*	187*	7	40	160*	7	41*	154*
20.	Jodhpur	Rajasthan	6	24	189*	5	23	176*	7	31	189*
21.	Kalyan Dombivali	Maharashtra	IA	IA	114*	25	54*	91*	40	77*	141*
22.	Kanpur	Uttar Pradesh	8	34	215*	7	31	201*	5	34	199*
23.	Kolkata	West Bengal	12	70*	135*	11	70*	159*	15	IA	107*
24.	Kota	Rajasthan	8	32	156*	7	33	122*	7	35	128*
25.	Lucknow	Uttar Pradesh	8	32	211*	8	29	192*	8	28	175*
26.	Ludhiana	Punjab	11	27	228*	11	26	204*	10	26	152*
27.	Madurai	Tamilnadu	14	30	48	14	22	41	13	26	45
28.	Meerut	Uttar Pradesh	4	43*	129*	5	39	134*	8	48*	154*
29.	Mumbai	Maharashtra	5	20	117*	3	13	117*	4	20	95*
30.	Nagpur	Maharashtra	10	32	103*	8	27	89*	10	25	93*
31.	Nashik	Maharashtra	24	27	95*	28	29	85*	25	26	73*
32.	Navi Mumbai	Maharashtra	17	43*	120*	17	44*	137*	18	40	151*
33.	Patna	Bihar	6	36	166*	-	-	-	-	-	-
34.	Pimpri Chinchwad	Maharashtra	22	47*	89*	20	43*	86*	22	41*	93*
35.	Pune	Maharashtra	22	45	92	20	41*	88*	23	45*	92*
36.	Raipur\$	Chattisgarh	14	40	268*	15	41*	305*	16	41*	329*
37.	Rajkot	Gujarat	13	17	99*	12	17	87*	13	19	82*
38.	Ranchi	Jharkhand	18	35	202*	19	36	177*	18	34	197*
39.	Shrinagar	Jammu & Kashmir	@	@	@	@	@	@	@	@	@
40.	Surat	Gujarat	16	26	97*	13	20	88*	15	20	89*
41.	Thane	Maharashtra	20	12	72*	17	32	110*	18	60*	109*
42.	Vadodara	Gujarat	16	33	102*	14	19	89*	15	21	87*
43.	Varanasi	Uttar Pradesh	18	21	138*	19	28	145*	19	32	139*
44.	Vasai-virar	Maharashtra	NA	NA	NA	NA	NA	NA	NA	NA	NA
45.	Vijaywada	Andhra Pradesh	6	12	97	5	19	104*	5	24	100*
46.	Vishakhapatnam (GVMC)	Andhra Pradesh	12	13	65*	13	18	67*	13	20	64*

NB. NA- no monitoring station in the city, @ -monitoring station sanctioned but not yet operational, '-' data not received, IA inadequate data, \$ -there are three operating station in Raipur, however during 2013,2014 only one station is in operation, \*Concentration exceeding NAAQS of 50  $\mu\text{g}/\text{m}^3$  for SO<sub>2</sub>, 40  $\mu\text{g}/\text{m}^3$  for NO<sub>2</sub>, 60  $\mu\text{g}/\text{m}^3$  for PM<sub>10</sub>, and 40  $\mu\text{g}/\text{m}^3$  for PM<sub>2.5</sub> for Residential/ industrial / other area & 20  $\mu\text{g}/\text{m}^3$  for SO<sub>2</sub>, 30  $\mu\text{g}/\text{m}^3$  for NO<sub>2</sub>, and 60  $\mu\text{g}/\text{m}^3$  for Ecologically sensitive area.

