

GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

**LOK SABHA**  
**STARRED QUESTION NO.3**  
TO BE ANSWERED ON 15.12.2017

**Air Pollution**

\*3. SHRI BHAIRON PRASAD MISHRA:  
SHRI NAGENDRA KUMAR PRADHAN:

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

- (a) whether the air pollution in urban and industrial areas has reached/crossed the alarming level in various cities of the country including the National Capital Region (NCR) of Delhi and if so, the details thereof, city-wise and the reasons therefor;
- (b) whether the Government has conducted any study to identify the reasons for rise in the level of pollution in the country including the NCR of Delhi in the month of October-November for the last several years and if so, the details and the outcome thereof;
- (c) whether the cases of various diseases including Chronic Obstructive Pulmonary disease caused by air pollution have registered growth in the country and if so, the details thereof along with the total number of persons died as a result thereof, State/UT-wise;
- (d) the new initiatives/long term measures taken by the Government to combat rising air pollution in the country including the NCR of Delhi along with the modern technique employed and funds provided for the purpose during each of the last three years and the current year, State/UT-wise; and
- (e) the details of the effectiveness and outcomes of the measures taken to combat air pollution along with the future action plan formulated to mitigate the issue of smog and poor air quality in the country including the NCR of Delhi?

**ANSWER**

**MINISTER FOR ENVIRONMENT, FOREST AND CLIMATE CHANGE**

**(DR. HARSH VARDHAN)**

(a) to (e): A statement is laid on the Table of the House.

**Statement referred to in reply to Lok Sabha Starred Question No. 3 due for reply on 15.12.2017 regarding 'Air Pollution' by Shri Bhairon Prasad Mishra and Shri Nagendra Kumar Pradhan, Hon'ble Members of Parliament**

- (a) Central Pollution Control Board (CPCB) is monitoring ambient air quality in 691 locations covering 303 cities/towns in 29 States and 6 Union Territories across the country under National Air Quality Monitoring Programme (NAMMP). As per the data, the number of cities where monitored values are exceeding National Ambient Air Quality Standards (NAAQS) during 2016 is 21 for NO<sub>2</sub>, 195 for PM<sub>10</sub> and 31 for PM<sub>2.5</sub>. The ambient air quality data for 2016 is given in **Annexure – I**. As per the available data for Delhi and NCR for last five years (**Annexure II and Annexure III**), PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are the major concern for the entire area, however a few violations are observed in NO<sub>2</sub> concentrations in Delhi, Meerut and Faridabad. The concentration of SO<sub>2</sub> is within the standard limit at all the locations in all the last five years. Various reasons for high air pollution include vehicular pollution, emissions from industries, biomass burning, construction activities and road dust etc.
- (b) Various studies from institutions such as CPCB and IIT Kanpur has been conducted to identify the reasons for rise in pollution in country including NCR of Delhi in the Month of October- November. The reason for rise in pollution in the Month of October- November is mainly due to adverse meteorological conditions such as low wind speed and low mixing height; and crop burning, which leads to episodic events.
- (c) As informed by Ministry of Health and Family Welfare, over past four years cases of Acute Respiratory Infections (ARI) have increased but deaths have not registered a consistent increase year on year in the same period. However, there is no separate data on Chronic Obstructive Pulmonary Diseases. The state/ UT wise cases of ARI as per National Health Profile is at **Annexure IV**.
- (d) & (e) The Government has taken several steps to address air pollution which *inter alia*, include notification of National Ambient Air Quality Standards; setting up of monitoring network for assessment of ambient air quality; introduction of cleaner / alternate fuels like gaseous fuel (CNG, LPG etc.), ethanol blending, launching of National Air Quality index; universalization of BS-IV by 2017; leapfrogging from BS-IV to BS-VI fuel standards by 1st April, 2020; notification of Construction and Demolition Waste Management Rules; banning of burning of biomass; promotion of public transport network; streamlining the issuance of Pollution Under Control Certificate; issuance of directions under Section 18(1)(b) of Air (Prevention and Control of Pollution) Act, 1981 and under Section 5 of Environment (Protection) Act, 1986; installation of on-line continuous (24x7) monitoring devices by major industries; collection of Environmental Protection Charge on more than 2000 CC diesel vehicles; notification of Graded Response Action Plan for Delhi and NCR etc. CPCB has been at the forefront of pollution mitigation activities. Air Pollution mitigation activities like employing 40 field inspection teams for pollution hot spots in Delhi NCR, co-ordinating with various agencies for effective response etc are being undertaken by CPCB. Government has provided adequate funds to CPCB for its various activities, including air pollution mitigation efforts. The details of the funds provided by government to CPCB is at **Annexure V**. State-wise details of funds released to various Monitoring Agencies during last three years and current year for ambient air quality monitoring as operational and maintenance cost under National Air Quality Monitoring Programme (NAMMP) is given at **Annexure-VI**. The air quality has improved since the episodic high pollution incidence of November 07- 14, 2017. It may be noted that the

number of good, moderate and satisfactory AQI days in 2017 were 151 compared to 109 days in 2016. Similarly the number of poor, very poor and severe AQI days have shown a drop in the current year as compared to last year: 181 in 2017 against 214 in 2016.

\*\*\*\*\*

**ANNEXURE REFERRED IN REPLY TO THE LOK SABHA STARRED QUESTION NO. 3 DUE FOR ANSWER ON 15.12.2017 REGARDING "AIR POLLUTION" RAISED BY SHRI BHAIRON PRASAD MISHRA AND SHRI NAGENDRA KUMAR PRADHAN, HON'BLE MEMBERS OF PARLIAMENT**

**Annexure – I**

**Ambient air quality in cities of the country during 2016**

State	City	Annual average concentration in µg/m <sup>3</sup>			
		SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Andhra Pradesh	Anantapur	5	13	85	-
	Chittoor	6	27	62	-
	Eluru	5	30	70	-
	Guntur	5	29	88	-
	Kadapa	7	15	68	-
	Kakinada	8	18	64	-
	Kurnool	5	11	69	-
	Nellore	5	28	66	-
	Prakasam	5	29	65	-
	Rajahmundry	8	18	64	-
	Srikakulam	9	20	71	-
	Tirupati	6	12	59	-
	Vijaywada	6	44	102	-
	Vishakhapatnam	8	18	77	-
	Vizianagaram	9	21	85	-
Assam	Bongaigaon	6	13	55	-
	Daranga	7	14	71	-
	Dibrugarh	8	17	81	-
	Golaghat	7	14	83	-
	Guwahati	8	17	105	-
	Lakhimpur	8	16	84	-
	Margherita	8	17	76	-
	Nagaon	7	15	111	-
	Nalbari	7	17	108	-
	Sibsagar	8	13	75	-
	Silchar	6	13	58	-
	Tezpur	8	17	68	-
	Tinsukia	8	16	80	-
	Bihar	Patna	4	32	212
Chandigarh	Chandigarh	2	21	105	123
Chattisgarh	Bhillai	9	23	108	-
	Bilaspur	5	21	97	-
	Korba	12	19	58	-
	Raipur	12	31	148	-
Dadra & Nagar Haveli	Silvassa	21	32	37	73
Daman & Diu	Daman	19	29	34	68
Delhi	Delhi	7	66	278	118
Goa	Amona (Bicholim)	5	11	72	25
	Assanora (Bardez)	5	11	62	21
	Bicholim (Bicholim)	5	12	70	25
	Codli (Sanguem)	5	11	64	24

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
	Cuncolim (Salcete)	10	15	67	35
	Curcholem (Quepem)	6	11	49	21
	Honda (Satari)	5	10	65	22
	Kundaim (Ponda)	5	10	62	21
	Mapusa (Bardez)	3	11	117	33
	Margao (Salcete)	5	11	69	24
	Mormugao (Mormugao)	5	8	115	44
	Panaji (Tiswadi)	4	11	68	70
	Ponda (Ponda)	5	11	68	22
	Sanguem (Sanguem)	6	11	44	20
	Tilamol (Quepem)	6	11	46	21
	Tuem (Pernem)	4	9	61	19
	Usgao (Ponda)	5	11	64	21
	Vasco (Mormugao)	5	11	90	67
	Gujarat	Ahmedabad	14	28	108
Anklesvar		12	21	104	32
Jamnagar		13	24	92	29
Rajkot		13	21	92	32
Surat		13	22	92	31
Vadodara		14	24	93	30
Vapi		13	24	104	33
Himachal Pradesh	Baddi	2	21	90	-
	Damtal	2	11	84	-
	Dharamshala	2	8	41	-
	Kala Amb	3	14	128	-
	Manali	2	8	52	-
	Nalagarh	2	22	108	-
	Paonta Sahib	2	12	101	-
	Parwanoo	2	10	69	-
	Shimla	4	17	54	-
	Sunder Nagar	2	11	92	-
	Una	2	5	69	-
Jammu & Kashmir	Jammu	4	17	131	-
Jharkhand	Dhanbad	15	37	226	-
	Jamshedpur	36	45	136	-
	Jharia	16	38	280	-
	Ranchi	20	37	196	-
	Saraikela Kharsawan	37	47	143	-
	Sindri	13	34	143	-
	West Singhbhum	16	22	93	-
Karnataka	Bagalkote	2	11	59	24
	Bangalore	3	31	103	51
	Belgaum	2	16	112	38
	Bijapur	2	12	93	40
	Chitradurga	3	20	41	-
	Devanagere	4	8	94	-
	Gulburga	-	-	-	59
	Hassan	6	19	26	-
	Hubli-Dharwad	5	20	84	35
	Karwar	-	-	-	-
Kolar	2	26	62	33	

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
	Mandya	3	20	20	-
	Mangalore	7	9	40	-
	Mysore	3	20	47	-
	Raichur	5	14	83	-
	Shimoga	3	6	42	-
	Timukuru	2	35	136	-
Kerala	Alappuzha	2	5	42	-
	Kochi	2	20	48	-
	Kollam	4	8	46	-
	Kottayam	4	17	54	-
	Kozhikode	2	18	51	-
	Malapuram	2	17	37	-
	Palakkad	2	9	41	-
	Pathanamthitta	2	15	26	-
	Thiruvananthapuram	10	25	53	-
	Thissur	2	5	54	-
Wayanad	2	5	39	-	
Lakshwadeep	Kavaratti	-	-	30	-
Madhya Pradesh	Amlai	17	22	73	27
	Bhopal	3	15	89	27
	Chhindwara	9	31	80	52
	Dewas	16	22	89	
	Gwalior	10	14	96	52
	Indore	11	20	95	53
	Jabalpur	10	23	71	32
	Katni	-	-	68	44
	Nagda	19	22	64	32
	Prithampur	9	19	93	42
	Sagar	2	12	79	30
	Satna	3	6	71	31
	Singrauli	18	24	82	42
	Ujjain	13	16	90	43
Maharashtra	Akola	8	9	126	-
	Amravati	12	13	100	-
	Aurangabad	14	39	92	-
	Badlapur	25	72	125	-
	Bhiwandi	33	45	67	-
	Chandrapur	5	26	111	-
	Dombivali/Ambernath	26	76	128	-
	Jalgaon	13	35	103	-
	Jalna	12	31	109	-
	Kolhapur	21	39	96	-
	Latur	5	18	81	-
	Mumbai	6	30	119	-
	Nagpur	16	26	118	-
	Nanded	49	48	161	-
	Nashik	13	27	85	-
	Navi Mumbai	19	46	118	-
	Pimpri-Chinchwad	32	71	105	-
	Pune	28	78	107	-
	Roha	-	-	-	-
	Sangli	10	39	83	-
	Solapur	13	35	74	-
	Tarapur	-	-	-	-

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
	Thane	18	60	122	-
	Ulhasnagar	26	71	118	-
Manipur	Imphal	-	-	29	-
Meghalaya	Byrnihat	42	17	175	-
	Dawki	2	11	35	-
	Khliehriat	2	10	47	-
	Nongstoin	2	11	33	-
	Shillong	2	14	55	-
	Tura	2	9	31	-
	Umiam	2	14	108	-
	Mizoram	Aizawl	2	7	60
Champhai		2	4	29	-
Kolasib		2	5	30	-
Lunglei		2	4	33	-
Nagaland	Dimapur	2	11	121	-
	Kohima	2	5	90	-
Odisha	Angul	8	23	97	-
	Balasore	4	12	85	47
	Berhampur	2	19	58	36
	Bhubneshwar	2	20	105	36
	Cuttack	3	30	81	42
	Jharsuguda	13	20	87	48
	Kalinga Nagar	2	9	113	46
	Konark	2	13	95	41
	Paradeep	22	13	111	41
	Puri	2	14	94	30
	Rayagada	4	21	59	33
	Rourkela	-	-	-	-
	Sambalpur	4	17	79	51
	Talcher	10	24	105	51
Puducherry	Karaikal	12	10	38	-
	Puducherry	6	14	40	-
Punjab	Amritsar	12	29	194	-
	Batala	-	-	-	-
	Bhatinda	5	14	121	-
	Dera Bassi	5	12	98	-
	Faridkot	5	12	104	-
	Gobindgarh	7	34	124	-
	Hoshiarpur	-	-	-	-
	Jalandhar	13	23	186	-
	Khanna	9	19	114	-
	Ludhiana	11	25	139	-
	Naya Nangal	5	12	91	-
	Pathankot/Dera Baba	8	14	89	-
	Patiala	5	13	106	-
	Sangrur	5	13	90	-
Rajasthan	Alwar	8	32	144	-
	Bharatpur	9	30	159	-
	Bhiwadi	8	28	264	-
	Jaipur	8	33	199	-
	Jodhpur	6	23	168	-
	Kota	7	30	109	-
	Udaipur	6	32	138	-
Sikkim	Chungthang	9	8	26	-
	Gangtok	12	28	28	-

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
	Mangan	8	6	20	-
	Namchi	12	5	23	-
	Pelling	13	9	20	-
	Rangpo	17	9	54	-
	Ravangla	10	8	22	-
	Singtam	14	9	44	-
Tamilnadu	Chennai	10	18	65	25
	Coimbatore	6	24	59	35
	Cuddalore	12	17	48	35
	Madurai	15	24	76	38
	Mettur	7	21	53	33
	Salem	7	25	51	20
	Trichy	12	20	95	27
	Tuticorin	14	22	175	-
Telangana	Adilabad	5	19	63	32
	Hydrabad	5	27	101	58
	Karimnagar	7	24	60	-
	Khammam	7	21	55	-
	Kothur	9	32	78	-
	Nalgonda	6	26	61	35
	Nizamabad	5	19	63	31
	Patencheru	6	25	78	38
	Ramagundam	8	8	69	-
	Sangareddy	5	24	70	31
	Warangal	7	23	70	
Uttar Pradesh	Agra	5	22	198	-
	Allahabad	4	37	196	-
	Anpara	19	29	132	-
	Bareilly	12	22	253	-
	Firozabad	9	33	223	-
	Gajraula	20	33	193	-
	Ghaziabad	15	28	235	-
	Gorakpur	18	35	154	-
	Jhansi	7	21	116	-
	Kanpur	7	39	217	-
	Khurja	22	21	216	-
	Lucknow	8	27	214	-
	Mathura	11	29	171	-
	Meerut	7	55	157	-
	Moradabad	18	31	196	-
	Noida	8	33	176	-
	Raebareli	11	17	141	-
	Saharanpur	15	25	218	-
	Unnao	10	28	119	-
	Varanasi	11	32	256	-
Uttarakhand	Dehradun	26	29	241	-
	Haldwani	-	-	128	-
	Haridwar	25	28	129	-
	Kashipur	-	-	126	-
	Rishikesh	23	27	119	-
	Rudrapur	-	-	142	-
West Bengal	Asansol	13	42	211	88
	Barrackpore	8	55	106	59
	Durgapur	13	41	196	74
	Haldia	18	42	103	42
	Howrah	10	59	119	67

State	City	Annual average concentration in $\mu\text{g}/\text{m}^3$			
		SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	Kolkata	4	49	113	70
	Raniganj	13	42	217	-
	Sankrail	7	40	88	-
	South Suburban	4	38	113	-
<b>29 states 7UTs</b>	<b>273 cities</b>				

NB. Alwar in Rajasthan (Aravali Hills), Agra, Firozabad, Mathura in Uttar Pradesh (Taj-Trapezium), Dehradun in Uttarakhand (Doon valley) are cities in Ecologically sensitive area. The rest fall under Residential / industrial / rural / other areas

NAAQS (annual): SO<sub>2</sub>=50  $\mu\text{g}/\text{m}^3$ , NO<sub>2</sub>=40  $\mu\text{g}/\text{m}^3$ , PM<sub>10</sub>=60  $\mu\text{g}/\text{m}^3$ , PM<sub>2.5</sub>=40  $\mu\text{g}/\text{m}^3$  (Residential / industrial / rural / other areas) and SO<sub>2</sub>=20  $\mu\text{g}/\text{m}^3$ , NO<sub>2</sub>=30  $\mu\text{g}/\text{m}^3$ , PM<sub>10</sub>=60  $\mu\text{g}/\text{m}^3$ , PM<sub>2.5</sub>=40  $\mu\text{g}/\text{m}^3$  (Ecologically sensitive area)

NAAQS (24-hourly): SO<sub>2</sub>=80  $\mu\text{g}/\text{m}^3$ , NO<sub>2</sub>=80  $\mu\text{g}/\text{m}^3$ , PM<sub>10</sub>=60  $\mu\text{g}/\text{m}^3$ , PM<sub>2.5</sub>=60  $\mu\text{g}/\text{m}^3$  (Residential / industrial / rural / other areas and Ecologically sensitive area)



## ANNEXURE II

## NAMP DATA ( DELHI NCR)

Location	Pitampura					Sirifort					NAAQS (Annual)
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016	
Year →											
SO <sub>2</sub>	5	4	4	5	6	5	4	4	4	5	50
NO <sub>2</sub>	44	45	40	37	40	48	43	39	49	52	40
PM <sub>10</sub>	206	206	195	241	262	291	181	209	189	320	60
PM <sub>2.5</sub>	67	63	89	119	145	51	78	84	94	102	40
Concentration in µg/m <sup>3</sup>											

Location	Janakpuri					Nizamuddin					NAAQS (Annual)
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016	
Year →											
SO <sub>2</sub>	4	4	4	4	6	4	4	4	4	5	50
NO <sub>2</sub>	44	46	43	50	52	42	42	40	44	46	40
PM <sub>10</sub>	246	202	197	199	296	187	165	188	225	253	60
PM <sub>2.5</sub>	49	57	79	94	118	44	66	74	83	109	40
Concentration in µg/m <sup>3</sup>											

Location	Shahzada Bagh					Shahdara					NAAQS (Annual)
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016	
Year →											
SO <sub>2</sub>	5	4	4	4	6	5	4	4	4	7	50
NO <sub>2</sub>	53	61	59	56	56	56	62	57	54	53	40
PM <sub>10</sub>	243	265	234	261	348	253	246	272	252	327	60
PM <sub>2.5</sub>	62	88	69	99	120	106	86	85	113	119	40
Concentration in µg/m <sup>3</sup>											

Delhi (Data reported by NEERI)

Location	Delhi - N.Y. SCHOOL					Delhi - Town Hall					NAAQS (Annual)
Year →	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016	
SO <sub>2</sub>	5	4	8	7	9	7	4	7	7	13	<b>50</b>
NO <sub>2</sub>	78	83	84	89	88	87	98	95	106	111	<b>40</b>
PM <sub>10</sub>	186	186	161	149	171	256	219	206	200	195	<b>60</b>
Concentration in µg/m <sup>3</sup>											

Location	Delhi - Mayapuri Industrial Area					NAAQS (Annual)
Year →	2012	2013	2014	2015	2016	
SO <sub>2</sub>	10	5	6	9	9	<b>50</b>
NO <sub>2</sub>	80	88	94	99	84	<b>40</b>
PM <sub>10</sub>	268	292	287	265	309	<b>60</b>
Concentration in µg/m <sup>3</sup>						

#### Haryana

Location	Faridabad - Regional Office, HSPCB					Faridabad - Shivalic Global Industries					NAAQS (Annual)
Year →	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016	
SO <sub>2</sub>	10	11	12	17	-	13	14	16	14	-	<b>50</b>
NO <sub>2</sub>	36	22	22	83	-	41	30	29	65	-	<b>40</b>
PM <sub>10</sub>	170	179	189	-	-	197	195	209	105	-	<b>60</b>
Concentration in µg/m <sup>3</sup> (-) Data not available											

#### ANNEXURE II (cont.)

#### Uttar Pradesh

Location	Ghaziabad - M/s Atlas Cycles					Ghaziabad - Bulandshaar Road Industrial Area					NAAQS (Annual)
Year →	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016	
SO <sub>2</sub>	30	26	27	24	14	30	25	26	22	15	<b>50</b>
NO <sub>2</sub>	34	35	40	38	29	34	33	39	36	28	<b>40</b>
PM <sub>10</sub>	251	289	251	270	248	244	281	232	249	228	<b>60</b>

Concentration in  $\mu\text{g}/\text{m}^3$

Location	Noida - Gee-Pee Engineering Works					Noida - Regional Office, UPPCB					NAAQS (Annual)	
	Year →	2012	2013	2014	2015	2016	2012	2013	2014	2015		2016
SO <sub>2</sub>	9	9	9	9	8	8	8	8	8	8	7	<b>50</b>
NO <sub>2</sub>	37	33	30	29	35	33	29	26	28	32		<b>40</b>
PM <sub>10</sub>	139	145	142	160	172	133	138	129	147	155		<b>60</b>

Concentration in  $\mu\text{g}/\text{m}^3$

Location	Meerut - Begum Bridge					Meerut - Thana Railway Road					NAAQS (Annual)	
	Year →	2012	2013	2014	2015	2016	2012	2013	2014	2015		2016
SO <sub>2</sub>	4	-	8	-	7	4	-	7	-	6		<b>50</b>
NO <sub>2</sub>	43	-	57	-	62	42	-	38	-	48		<b>40</b>
PM <sub>10</sub>	129	-	170	-	181	129	-	139	-	133		<b>60</b>

Concentration in  $\mu\text{g}/\text{m}^3$  (-) Data not available

#### Rajasthan

Location	Alwar - RIICO Pump House					Alwar - Regional Office, RSPCB					NAAQS (Annual)	
	Year →	2012	2013	2014	2015	2016	2012	2013	2014	2015		2016
SO <sub>2</sub>	11	12	12	10	8	9	7	9	9	7		<b>50</b>
NO <sub>2</sub>	23	22	24	26	32	21	19	20	25	31		<b>40</b>
PM <sub>10</sub>	152	271	253	168	145	147	255	222	170	129		<b>60</b>

Concentration in  $\mu\text{g}/\text{m}^3$

Location	Alwar - Gaurav Solvex Ltd					NAAQS (Annual)
	Year →	2012	2013	2014	2015	
SO <sub>2</sub>	12	12	12	10	8	<b>50</b>
NO <sub>2</sub>	24	22	24	26	33	<b>40</b>
PM <sub>10</sub>	156	277	244	201	165	<b>60</b>

Concentration in  $\mu\text{g}/\text{m}^3$

<b>Location</b>	<b>Bharatpur - RO, RSPCB Building</b>	<b>Bharatpur - RIICO Office Building</b>	<b>Bharatpur - Khadi Gramodoyg Samiti</b>	<b>NAAQS (Annual)</b>
<b>Year →</b>	<b>2016</b>	<b>2016</b>	<b>2016</b>	
<b>SO<sub>2</sub></b>	6	6	8	<b>50</b>
<b>NO<sub>2</sub></b>	31	32	33	<b>40</b>
<b>PM<sub>10</sub></b>	120	161	207	<b>60</b>
Concentration in $\mu\text{g}/\text{m}^3$				

<b>Location</b>	<b>Bhiwadi - RO, RSPCB</b>	<b>Bhiwadi - UIT Guest House</b>	<b>Bhiwadi - Uttam Strips</b>	<b>NAAQS (Annual)</b>
<b>Year →</b>	<b>2016</b>	<b>2016</b>	<b>2016</b>	
<b>SO<sub>2</sub></b>	8	7	8	<b>50</b>
<b>NO<sub>2</sub></b>	28	28	27	<b>40</b>
<b>PM<sub>10</sub></b>	259	240	290	<b>60</b>
Concentration in $\mu\text{g}/\text{m}^3$				

## ANNEXURE III

## CAAQMS DATA (DELHI)

Location	DMS, SHADIPUR					NSIT, DWARKA					NAAQS (Annual )
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016	
SO <sub>2</sub>	12	12	12	10	13	8	13	10	9	8	50
NO <sub>2</sub>	53	55	43	57	51	53	37	44	42	25	40
CO	1317	1265	750	772	920	1142	1086	709	786	639	-
O <sub>3</sub>	32	27	31	38	35	28	32	33	39	40	-
PM <sub>10</sub>	216	205	202	-	-	185	166	214	-	-	60
PM <sub>2.5</sub>	-	-	-	88	135	-	-	-	90	125	40
Benzene	12	9	4.5	2.7	3.9	10	8.4	4.4	2.7	3.3	5
Concentration in µg/m <sup>3</sup>											

Location	IHBAS, DILSHAD GARDEN					NAAQS (Annual)
	2012	2013	2014	2015	2016	
SO <sub>2</sub>	16	14	11	10	11	50
NO <sub>2</sub>	47	36	21	41	46	40
CO	1060	901	673	546	789	-
O <sub>3</sub>	-	-	-	-	-	-
PM <sub>10</sub>	243	222	193	-	-	60
PM <sub>2.5</sub>	-	-	-	93	133	40
NH <sub>3</sub>	28	36	30	46	35	100
Concentration in µg/m <sup>3</sup>						

Note: Monitoring of PM<sub>10</sub> stopped and PM<sub>2.5</sub> started from the year 2015 at CAAQM stations (Shadipur, Dwarka & Dilshad Garden)



## Annexure IV

## Statewise cases and deaths of Acute Respiratory Infections reported in last four years

S. No.	State	2013		2014		2015		2016*	
		Cases (No)	Deaths (Nos)	Cases (No)	Deaths (Nos)	Cases (No)	Deaths (Nos)	Cases (No)	Deaths (Nos)
1	Andhra Pradesh**	3110536	372	2413509	144	2311538	133	3049810	95
2	Arunchal Pradesh	46643	4	17887	3	15840	7	19537	3
3	Assam	145047	232	68334	72	20456	81	20667	200
4	Bihar	1758655	20	1488744	53	1223078	40	1073140	17
5	Chhatisgarh	287771	30	363570	73	376493	62	452269	19
6	Goa	59590	0	67720	1	60998	0	57638	4
7	Gujarat	1041042	40	1249351	0	1578815	27	1841945	16
8	Haryana	1003454	35	1123370	18	1173106	36	1162451	35
9	Himanchal Pradesh	1631779	164	1523572	226	1591505	205	1649023	166
10	Jammu Div.	236452	0	222649	0	225817	5	275525	3
	Kashmir Div.	553262	0	523573	0	536208	0	487651	0
11	Jharkhand	238206	113	224576	3	206843	1	271492	0
12	Karnataka	1577354	256	2213159	39	2128318	16	2072421	99
13	Kerala	6233391	62	6042825	27	5879901	38	5600975	14
14	Madhya Pradesh	1276515	213	1529711	195	1733489	161	1668782	185
15	Maharashtra	896949	1	1146185	1	1568270	18	1959700	20
16	Manipur	31468	36	33470	24	37477	22	46272	21
17	Meghalaya	329019	2	375220	5	408938	7	430119	2
18	Mizoram	33807	23	28790	43	33169	59	40346	52
19	Nagaland	37664	3	38312	0	29289	1	29996	0
20	Odisha	1599506	235	2125240	131	2384544	127	2498828	88
21	Punjab	692618	9	638908	35	612122	71	639631	24
22	Rajasthan	2515972	77	3038583	108	3153098	96	3797814	63

23	Sikkim	93726	14	83893	7	104346	36	111044	36
24	Tamil Nadu	1944280	4	1904592	14	1956864	2	2135806	1
	Telangana					1137894	123	965642	77
25	Tripura	158988	131	154227	51	167058	4	170115	7
26	Uttarakhand	185034	113	211385	89	253292	77	261603	73
27	Uttar Pradesh	1720714	377	1627509	619	1811808	665	2302147	822
28	West Bengal	2514606	753	2831623	625	3193209	554	3537353	635
29	A&N Islands	58307	0	61716	0	48254	4	57220	4
30	Chandigrh	100541	0	109081	8	127479	36	171977	27
31	D&N haveli	96346	0	102487	3	61639	12	84301	13
32	Daman & Diu	48603	8	60571	4	66031	8	73171	0
33	Delhi	390170	175	369406	106	330643	133	351072	207
34	Lakshadweep	43944	0	49807	0	42274	0	35198	0
35	Puducherry	73114	11	772188	2	895610	26	900460	15
	<b>Total</b>	<b>32765073</b>	<b>3513</b>	<b>34835743</b>	<b>2729</b>	<b>37485713</b>	<b>2893</b>	<b>40303141</b>	<b>3043</b>

Source: National Health Profile

\*Provisional data

\*\*Excludes data of 10 districts Telangana from July 2014 onwards



## ANNEXURE V

**Releases to from the Government to CPCB last 3 years and current year**

(fig in ₹ in crore)

<b>Financial Year</b>	<b>Released to CPCB</b>
2014-15	60.10
2015-16	66.5
2016-17	88.19 Crore
2017-18 (till November 2017)	70.3 Crore

## Annexure-VI

**Details of Payment Released to Various Monitoring Agencies under National Air Quality Monitoring Programme (NAMP) (figs in ₹)**

S.No.	Name of Monitoring Agency	2014-15	2015-16	2016-17	2017-18 till Dec 2017
1.	Andhra Pradesh SPCB	7666250	-	-	-
2.	Arunachal Pradesh SPCB	-	-	-	3005334
3.	Assam SPCB	7842500	-	-	11208000
4.	Chandigarh PCC	-	-	4113833	
5.	Chattisgarh ECB	-	1526250	-	
6.	Gujarat SPCB	-	-	-	
7.	Goa SPCB	7125000	7789333	-	
8.	Himachal Pradesh SEP & PCB	-	10128333	-	
9.	Karnataka SPCB	354167	6749583	-	
10.	Kerala SPCB	6474167	-	-	
11.	Maharashtra SPCB	-	-	16316919	
12.	Meghalaya SPCB	-	7845833	-	9173333
13.	Madhya Pradesh SPCB	-	-	7984417	
14.	Mizoram SPCB	1765000	5413333	4253333	2706667
15.	Nagaland SPCB	906667	-	3658667	1717333
16.	Orissa SPCB	5734583	-	5872500	
17.	Punjab SPCB	7795417	-	-	
18.	Puducherry	-	-	5110333	
19.	Rajasthan SPCB	-	4218750	-	
20.	Tamil Nadu SPCB	2358333	-	-	
21.	Uttar Pradesh SPCB	-	7263333	-	
22.	Uttarakhand EP&PCB	-	4085833	-	
23.	NEERI	7047000	13612000	22288000	21600000
24.	IIT Kanpur	3709378	-	-	3709378
	<b>Total =</b>	<b>58778462</b>	<b>68632581</b>	<b>69598002</b>	<b>53120045</b>

Note:- SPCB – State Pollution Control Board, SEP&PCB – State Environment Protection & Pollution Control Board, EP& PCB – Environment Protection & Pollution Control Board, PCC – Pollution Control Committee. NEERI is at present monitoring in 6 cities in 5 different states/Union territories namely Delhi, Maharashtra, West Bengal, Tamil Nadu and Andhra Pradesh.