GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

LOK SABHA
UN-STARRED QUESTION N0. 1275
TO BE ANSWERED ON 09.02.2018

Air Pollution

1275. DR. KIRIT P. SOLANKI:

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

(a) the number of cities in the country with hazardous levels of air pollution and particulate matter, State/UT-wise;
(b) the number of air pollution quality monitoring centres in the country, State/ UT-wise;
(c) whether the Government has identified the principal causes behind hazardous levels of air pollution and if so, the details thereof; and
(d) whether the Government has considered introducing the polluter pays principle and if so, the details thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(DR. MAHESH SHARMA)

(a) & (b)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 (NAMP). 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_2, 195 for PM_{10} and 31 for $PM_{2.5}$. The ambient air quality data for 2016 is given in Annexure – I**.**

(c) On the basis of various studies; emissions from industries, vehicles, construction and demolition, biomass burning, municipal solid waste burning, coal and flyash, and soil and road dust have been identified as the principal causes behind increased levels of air pollution in the country.

(d) Government has laid down standards related to emissions/effluent and polluters are required to undertake measures for achieving these standards. Besides, in some cases such as Delhi, Environment Compensation charges (ECC) has been imposed on the Light and heavy duty commercial vehicles entering Delhi from November 1, 2015 and the amount so collected is to be exclusively used for augmenting public transport and improving roads, particularly for most vulnerable users, that is, cyclists and pedestrians. Similarly, 1% Environmental Protection Charge (EPC) has been imposed on diesel vehicles with engine capacity of 2000 cc and above, which has to be paid by all manufactures of Delhi / NCR.

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ANNEXURE REFERRED IN REPLY TO THE LOK SABHA UNSTARRED QUESTION NO. 1275 DUE FOR ANSWER ON 09.02.2018 REGARDING "AIR POLLUTION" RAISED BY DR. KIRTI P. SOLANKI, HON'BLE MEMBER OF PARLIAMENT

Annexure – I

Ambient air quality in cities of the country during 2016

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
Andhra Pradesh	Anantapur	5	13	85	-
	Chitoor	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	5	11	72	25

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
	(Bicholim)				
	Assanora (Bardez)	5	11	62	21
	Bicholim (Bicholim)	5	12	70	25
	Codli (Sanguem)	5	11	64	24
	Cuncolim (Salcete)	10	15	67	35
	Curchorem (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	34
	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	-

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
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
	Mandya	3	20	20	-
	Mangalore	7	9	40	-
	Mysore	3	20	47	-
	Raichur	5	14	83	-
	Shimaga	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

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
	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/Amber nath	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	-	-	-	-
	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	-

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
	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	-
	Mangan	8	6	20	-
	Namchi	12	5	23	-
	Pelling	13	9	20	-
	Rangpo	17	9	54	-
	Ravangla	10	8	22	-
	Singtam	14	9	44	-

State	City	Annual average concentration in µg/m3			
		SO2	NO2	PM10	PM2.5
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	-
	Bareily	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

State	City	Annual average concentration in µg/m3			
		SO2	**NO2**	**PM10**	**PM2.5**
	Durgapur	13	41	196	74
	Haldia	18	42	103	42
	Howrah	10	59	119	67
	Kolkata	4	49	113	70
	Raniganj	13	42	217	-
	Sankrail	7	40	88	-
	South Suburban	4	38	113	-
29 states 7UTs	**273 cities**				

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): SO2=50 µg/m3, NO2=40 µg/m3r, PM10=60 µg/m3, PM2.5=40 µg/m3 (residential / industrial / rural / other areas) and SO2=20 µg/m3, NO2=30 µg/m3, PM10=60 µg/m3, PM2.5=40 µg/m3 (Ecologically sensitive area)

NAAQS (24-hourly): SO2=80 µg/m3, NO2=80 µg/m3r, PM10=60 µg/m3, PM2.5=60 µg/m3 (residential / industrial / rural / other areas and Ecologically sensitive area)