

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

LOK SABHA
UN-STARRED QUESTION NO. 532
TO BE ANSWERED ON 20.07.2018

Pollution Emanated from Thermal Power Plants

532. SHRI NIHAL CHAND:
SHRI B.V. NAIK

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

- (a) whether thermal power plants across the country are polluting the air in the respective cities and if so, the details thereof;
- (b) whether the Government has conducted any study to assess the pollution emanating from coal based power plants in the country;
- (c) if so, the details thereof along with the losses of life and property due to the pollution during last two years;
- (d) whether those polluting power plants are not complying with the prescribed guidelines of the Government and if so, the details thereof and since when these plants are not having pollution control equipment;
- (e) whether these power plants have been penalized for causing pollution and if so, the details thereof; and
- (f) the effective steps taken by the Government to check the pollution emanated from coal based power plants?

ANSWER

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

(a) The coal based thermal power plants are identified as one of the 17 highly polluting industries. There are 182 coal based thermal power plants (independent power producers) of which 32 plants are located near cities. The list of thermal power plants is given at **Annexure I**.

(b)&(c) No specific study on pollution load assessment from coal based power plants has been conducted by Ministry of Environment, Forest and Climate Change. However, based on about 665 million tonnes annual coal consumption during 2017-18, it is estimated that about 0.43, 6.32 and 2.78 million tonnes of particulate matter, sulphur dioxide (SO₂) and oxides of nitrogen (NO_x) respectively were emitted into atmosphere from coal based power plants. There is no data available about loss of life and property due to pollution from coal based power plants. However, pollution due to coal based power plants could be triggering factor for respiratory ailments and associated diseases.

(d)&(e) The compliance monitoring is carried out by the respective State Pollution Control Boards. Surprise inspection of 38 thermal power plants in various states based on analysis of data of Online Emission Monitoring System has been done. Among these, 23 plants were initially found violating the emission norms. The directions under section 5 of E(P) Act, 1986 were issued to these 23 plants (**Annexure-II**). Out of these 23 plants, 15 plants have subsequently complied the environmental norms.

(f) To check the pollution emanating from coal based power plants, Government has notified new emission limits for SO₂ and NO_x and revised limits for particulate matter vide notification S.O. 3305 (E) dated 07.12.2015. It has also made use of beneficiated coal mandatory in thermal power plants located 500-1000 km from coal mine/urban area /critically polluted area vide notification G.S.R. 04 (E) dated 02.01.2014.

Annexure- I

List of Thermal Power Plants

Sl. No.	Name	State	Capacity (MW)
1	Vijaywada, APPGCL, Dr. NTPS	Andhra Pradesh	1760 (urban)
2	Rayalseema ,APPGCL	AP	1050
3	Simhadri, NTPC	AP	2000
4	Simhapuri TPS	AP	600
5	Thamminapatnam, Meenakshi Energy Pvt. Ltd.	AP	300
6	DamodaranSanjeeviah	AP	1600
7	Sembcorp Gayatri TPP	AP	1320
8	M/s. Thermal Powertech Corporation (India) Ltd., Painampuram	AP	1320
9	Vizag TPP, Hinduja	AP	1040 (urban)
10	Bongaigaon Thermal Power Project	Assam	500
11	Kahalgaon, NTPC	Bihar	2340
12	Muzaffarpur, NTPC	Bihar	660
13	Barh, NTPC	Bihar	1320 (urban)
14	Nabi Nagar	Bihar	500
15	Barauni TPS	Bihar	720 (urban)
16	Hasdeo Thermal Power Station, Korba West	Chhattisgarh	1340
17	Korba, NTPC	Chhattisgarh	2600
18	Korba, EAST CSPGCL	Chhattisgarh	440
19	Avantha Bandar, KWPCCL	Chhattisgarh	600
20	Marwa , CSPGCL	Chhattisgarh	1000
21	Sipat, NTPC	Chhattisgarh	2980

22	Jindal Power	Chhattisgarh	1000
23	Tamnar, Jindal Power	Chhattisgarh	2400
24	LancoAmarkantak	Chhattisgarh	600
25	Kasaipalli, ACB	Chhattisgarh	270
26	D B Power	Chhattisgarh	1200
27	Akaltara, Mahanadi Power	Chhattisgarh	1800
28	Balco TPS	Chhattisgarh	1200
29	Uchpinda, RKM Power	Chhattisgarh	1440
30	Raikheda, GMR	Chhattisgarh	1370
31	Maruti Clean Coal & Power Ltd	Chhattisgarh	300
32	SV Power Pvt Ltd, Hardibazar ACB	Chhattisgarh	60
33	SCPL Ratija, Spectrum Coal & Power	Chhattisgarh	100
34	Nawapara TPS, TRN Energy	Chhattisgarh	600
35	Dr.Shyama Prasad Mukherjee TPS, Korba	Chhattisgarh	500
36	Bhilai TPS, NTPC & SAIL	Chhattisgarh	500
37	SKS Ispat, Binjkote TPS	Chhattisgarh	1200
38	ACBIL Chakabura	Chhattisgarh	60
39	Badarpur,NTPC	Delhi	705(urban)
40	Gandhinagar, GSPCL	Gujarat	630(urban)
41	Ukai, GSPCL	Gujarat	1110
42	Wanakbori, GSPCL	Gujarat	1470
43	Sabarmati, AEC	Gujarat	422(urban)
44	Sikka, GSPCL	Gujarat	500
45	Kutch Lignite, GSPCL	Gujarat	290
46	OPG Power Gujarat Ltd	Gujarat	300
47	Surat Lignite	Gujarat	500
48	Adani, Mundra	Gujarat	4620
49	Mundra, Tata Power, Coastal	Gujarat	4150
50	ESSAR Power, Hazira	Gujarat	270
51	Essar Power, Salaya	Gujarat	1200
52	Akrimota, GMDC	Gujarat	250
53	Panipat, HPGCL	Haryana	920 (urban)
54	Rajeev Gandhi, Hissar	Haryana	1200 (urban)
55	Indira Gandhi, Jhajhar	Haryana	1500 (urban)
56	Mahatma Gandhi,CLPJhajhar	Haryana	1320 (urban)
57	Yamunanagar, DeenbadndhuChhoturam TPS	Haryana	600 (urban)
58	Bokaro A & B, DVC	Jharkhand	710
59	Tenughat Thermal Power Station	Jharkhand	420
60	Chandrapura, DVC	Jharkhand	630
61	Koderma,	Jharkhand	1000

62	Mathon,DVC	Jharkhand	1050
63	Mahadeo Prasad STPP, Adhunik Power	Jharkhand	540
64	JOJOBERA T.P.CO.	Jharkhand	427.5 (urban)
65	Raichur, KPCL	Karnataka	1720
66	Bellari, KPCL	Karnataka	1700
67	Torangullu TPS JSW Energy Ltd.	Karnataka	260
68	TorangulluExtn TPS JSW Energy Ltd.	Karnataka	600
69	NTPC Kudgi	Karnataka	2400
70	Yermarus TPP	Karnataka	1600
71	Udipi, Adani	Karnataka	1200
72	Amarkantak, MPPGCL	Madhya Pradesh	210
73	Birsingpur, MPPGCL, Sanjay Gandhi TPS	Madhya Pradesh	1340
74	Satpura, MPPGCL	Madhya Pradesh	1330
75	Vindhyachal,NTPC	Madhya Pradesh	4760
76	Sasan, RPL	Madhya Pradesh	3960
77	Mahan, Essar Power MP	Madhya Pradesh	1200
78	Bina, J P Power	Madhya Pradesh	500
79	SHREE SINGAJI MPPGCL	Madhya Pradesh	1200
80	Nigrie, J P Associates	Madhya Pradesh	1320
81	JhabuaSeioni	Madhya Pradesh	600
82	M. B Power Annupur	Madhya Pradesh	1200
83	Trombay, Tata Power	Maharashtra	750 (urban)
84	Khaperkheda, Mahagenco	Maharashtra	1340 (urban)
85	Nasik, Mahagenco	Maharashtra	630 (urban)
86	Koradi ,Mahagenco	Maharashtra	2400 (urban)
87	Bhusawal, Mahagenco	Maharashtra	1210
88	Chandrapur Super TPS, Chandrapur	Maharashtra	2920
89	Paras, Mahagenco	Maharashtra	500
90	Parli, Mahagenco	Maharashtra	1170
91	Dahanu,REL	Maharashtra	500
92	Sai Wardha, Warora	Maharashtra	540
93	Solapur NTPC	Maharashtra	1320
94	JSW Ratnagiri, Nandiwade	Maharashtra	1200

95	Mihan, Abhijeet#	Maharashtra	246
96	Mouda, NTPC	Maharashtra	2320
97	Bela, PurtiGrpoup#	Maharashtra	270
98	Amarawati, IndiaBulls Power	Maharashtra	1350
99	Nashik, IndiabullsRealtech#	Maharashtra	1350 (urban)
100	EMCO Warora, GMR	Maharashtra	600
101	Butibori, Vidarbha Ind. Power	Maharashtra	600
102	Tirora, Adani Power	Maharashtra	3300
103	Dhariwal ,DhariwalInfrast. Ltd	Maharashtra	600
104	GEPL TPP Gupta Energy Pvt. Ltd#	Maharashtra	120
105	SesaSterlite, Jharsuguda	Orisaa	2400
106	Kamalanga, GMR	Orisaa	1050
107	TalcherKaniha,NTPC	Orissa	3000
108	Talcher, NTPC	Orissa	460
109	IB Valley, Jharsuguda	Orissa	420
110	Derang , JIPL	Orissa	1200
111	IndBharath#	Orissa	350
112	Ropar PPCL, Guru Gobind Singh TPS	Punjab	1260 (urban)
113	LehraMohabbat,PPCL	Punjab	920
114	Rajpura, Nabha Power	Punjab	1400
115	Talwandisabo TPS, Vedanta	Punjab	1980
116	Goindwal Sahib, GVK Power	Punjab	540
117	Kota, RRVUNL	Rajasthan	1240 (urban)
118	Suratgarh, RRVUNL	Rajasthan	1500
119	Chhabra, RRVUNL	Rajasthan	1000
120	Barsingsagar lignite, NLC	Rajasthan	250
121	Giral TPS#	Rajasthan	250
122	Jalippa-Kapurdi, Raj West Power	Rajasthan	1080
123	Kalisindh TPP, RRVUNL	Rajasthan	1200
124	Kawai, Adani power	Rajasthan	1320
125	Tuticorin , Tangedco	Tamilnadu	1050
126	North-Chennai, Tangedco, NCTPS	Tamilnadu	630 (urban)
127	North-Chennai, Tangedco, Stage -II	Tamilnadu	1200 (urban)
128	Mettur TPS	Tamilnadu	840 (urban)
129	MetturExtn. Tangedco	Tamilnadu	600 (urban)
130	Neyveli Lignite, NLC TPS-1	Tamilnadu	600
131	Neyveli Lignite, NLC TPS-1 Expn	Tamilnadu	420
132	Neyveli Lignite, NLC TPS-2	Tamilnadu	1470
133	Neyveli Lignite, NLC TPS-2 Expn	Tamilnadu	500
134	NLC Tamilnadu Power Ltd, JV	Tamilnadu	1000
135	Vallur, NTPC	Tamilnadu	1500 (urban)
136	TAQA Neyveli (ST-CMS)	Tamilnadu	250
137	Mutiara, Coastal Energy	Tamilnadu	1200

138	IL&FS TPP, Cuddalore	Tamilnadu	1200
139	IndBharath Thermal Power Ltd, Tuticorin#	Tamilnadu	300
140	Ramagundem, NTPC	Telangana	2600
141	Rammagundam B, TSGENCO	Telangana	62.5
142	Kothagudem O&M TPS, TSGENCO	Telangana	720
143	Kothagudem V Stage TPS, TSGENCO	Telangana	500
144	Kothagudem VI Stage TPS, TSGENCO	Telangana	500
145	SINGARENI TPP	Telangana	1200
146	Kakatiya, TSGENCO	Telangana	1100
147	Singrauli, NTPC	Uttar Pradesh	2000
148	Anpara A, B & D, UPVUNL	Uttar Pradesh	2630
149	NCTPS, Dadri, NTPC	Uttar Pradesh	1820 (urban)
150	Rihand, NTPC	Uttar Pradesh	3000
151	Unchahar, NTPC	Uttar Pradesh	1050
152	Tanda, NTPC	Uttar Pradesh	440
153	Paricha, UPVUNL	Uttar Pradesh	1140
154	Obra B, UPVUNL	Uttar Pradesh	1000
155	Harduaganj, UPVUNL	Uttar Pradesh	670
156	Panki, UPVUNL	Uttar Pradesh	210
157	Rosa, RPL	Uttar Pradesh	1200
158	Barkhera, Piliphit, Bajaj Energy	Uttar Pradesh	90
159	Khambarkhera, Lakhimpur, Bajaj Energy	Uttar Pradesh	90
160	Kundakki, Bajaj Energy	Uttar Pradesh	90
161	Utraula, Balarampur, Bajaj Energy	Uttar Pradesh	90
162	Maqsoodpur, Shahjahnpur, Bajaj Energy	Uttar Pradesh	90
163	Anpara C, Lanco power	Uttar Pradesh	1200
164	Lalitpur, Bajaj Energy	Uttar Pradesh	1980
165	Prayagraj Power Generation C, Ltd	Uttar Pradesh	1980
166	Farakka, NTPC	West Bengal	2100
167	Budge-Budge, CESCL	West Bengal	750 (urban)
168	Mezia, DVC	West Bengal	2340
169	Southern, CESCL	West Bengal	135
170	Barkeshwar, WBPDC	West Bengal	1050
171	Durgapur Steel TPS	West Bengal	1000 (urban)
172	Durgapur, DVC	West Bengal	210
173	Titagarh, CESCL#	West Bengal	240
174	Santaldih, WBPDC	West Bengal	500
175	Sagardighi, WBPDC	West Bengal	1600
176	Durgapur Projects Ltd.	West Bengal	660 (urban)
177	Kolaghat, WBPDC	West Bengal	1260(urban)
178	Bandel, WBPDC	West Bengal	455

179	Raghunathpur, DVC	West Bengal	1200
180	India Power Haldia	West Bengal	450
181	Dishergarh TPS	West Bengal	12
182	Haldia, Coastal Energen	West Bengal	600
	Total		197255

Note: Thermal Power Plants marked with # were non-operational during year 2017-18.

(ANNEXURE - II)

Thermal Power Plants Inspected for Verification of Compliance (2017 onwards)

Sl. No.	State	Name of Thermal Power Plant	Date of Inspection	Compliance Status (During Inspection)	Action Taken
1.	Andhra Pradesh	Dr.Narla Tata Rao Thermal Power Station, Vijayawada	08.03.2017	Non-complying	Direction issued u/s 5 of EPA, 1986 on 08.06.2017 & 01.09.2017.
2.	Andhra Pradesh	Simhadri Thermal Power Project, NTPC Ltd, P.O. Simhadri Vishakhapatnam	21.09.2017	Complying	
3.	Andhra Pradesh	Meenakshi Energy Limited, Thamminpattnam	10.04.2018	Self-Closed	
4.	Assam	Bongaigaon Thermal Power Project, NTPC Ltd, Kokrajhar	18.05.2018	Non-complying	Direction issued u/s 5 of EPA, 1986 on 08.06.2018.
5.	Bihar	Kahalgaon Super Thermal Power Station, Kahalgaon	08.03.2018	Complying	Direction issued u/s 5 of EPA, 1986 on 10.04.2018.
6.	Chhattisgarh	NTPC Limited Korba Super Thermal Power Station, Korba	25.04.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 07.07.2017.
7.	Delhi	Pragati Power Station - III, 1500 MW, DSIIDC, Sector – 5, Bawana	19.09.2017	Complying	
8.	Gujarat	Wanakbori Thermal Power Station, GSECL colony, Kheda	18.08.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 25.09.2017.
9.	Gujarat	Kutch Lignite Thermal Power Station, GSECL, Khanot	17.08.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 21.09.2017 & 10.01.2018.
10.	Jharkhand	Koderma Thermal Power Station, DVC, Banjhedih	18.04.2018	Complying	Direction issued u/s 5 of EPA, 1986 on 11.05.2018.
11.	Karnataka	Bellary Thermal Power Station, Dist- Bellary	14.03.2017	Complying	
12.	Karnataka	Gulbarga Power Pvt Ltd, Chatrasala, Gulbarga	26.10.2017	Complying	
13.	Madhya Pradesh	Sanjay Gandhi Thermal Power Station, Magdhar,	28.11.2017	Complying	

		Umeria			
14.	Madhya Pradesh	Ramnik Power and Alloys Pvt. Ltd.	12.03.2018	Self-Closed	
15.	Madhya Pradesh	The Raymond Ltd., Captive Power Plant, Kailash Nagar, Tehsil: Sausar, Dist- Chhindwara	21.12.2017	Complying	
16.	Maharashtra	Bhusawal Thermal Power Station, Unit 2&3 Deepnagar, Tal- Bhusawal Dist Jalgaon	18.08.2017	Non-complying	Direction issued u/s 5 of EPA, 1986 on 21.09.2017.
17.	Maharashtra	MSPGCL- Parli Thermal Power Station, Vidyut Nagar	05.04.2018	Non-complying	Direction issued u/s 5 of EPA, 1986 on 07.05.2018.
18.	Odisha	Bhushan Energy Limited, Dhenkanal	11.04.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 05.07.2017.
19.	Odisha	Essar Power (Orissa) Limited, Vill- Udayabata, PO Paradeep	05.01.2018	Complying	
20.	Odisha	Jindal India Power, Derang, Kaniha, Angul	12.04.2017	Non-complying	Direction issued u/s 5 of EPA, 1986 on 16.03.2017 & 21.09.2017.
21.	Odisha	NALCO Ltd., Captive Power Plant, Angul	06.07.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 14.09.2017.
22.	Odisha	IB Thermal Power Station(OPGC), Banaharpali, Jharsuguda	01.09.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 16.10.2017.
23.	Punjab	M/s A-2-Z Maintenance and Engineering Services Ltd. , Jalandhar	27.04.2017	Non-complying	Direction issued u/s 5 of EPA, 1986 on 21.09.2017.
24.	Punjab	Guru Nanak Dev Thermal Plant – PSPCL, Bhatinda	16.05.2018	Self-Closed	
25.	Rajasthan	Suratgarh Super Thermal Power Station, Rajasthan Rajya Vidyut Utpadan Nigam Limited, Prabhat Nagar, Srigangnagar	02.01.2017 08.06.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 16.03.2017.
26.	Rajasthan	Kota Super Thermal Power Station, Barrage Road- National Highway 33- Electricity Board Area, Kota	20.01.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 19.04.2017 & 17.01.2018.
27.	Rajasthan	Kali Sindh Thermal Power	01.11.2017	Complying	Direction issued u/s

		Plant, Undal Village, Jhalawar			5 of EPA, 1986 on 07.12.2017.
28.	Tamil Nadu	TaqaNeyveli Power Company Pvt. Ltd, 250MW LFPP- UthangalViruthachalam	26.10.2017 22.02.2018	Complying	Direction issued u/s 5 of EPA, 1986 on
29.	Tamilnadu	Auromira Bio Energy Ltd, Tirunalveli, Mela, Maruthapapuram, Thirunelveli	21.09.2017	Non- complying	Direction issued u/s 5 of EPA, 1986 on 06.11.2017.
30.	Tamilnadu	Neyveli Lignite Corporation LimitedTPS-1 Expansion, (2x210 MW), Neyveli, Cuddalore	20.06.2018	Complying	
31.	Uttar Pradesh	Bajaj Energy Power Ltd, PO Shri DuttganjUtraula	09.03.2018	Complying	Direction issued u/s 5 of EPA, 1986 on 06.04.2018.
32.	Uttar Pradesh	NTPC Limited Feroz Gandhi Unchahar Thermal Power Station P.O. Unchahar, Raebareli	16.08.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 16.10.2017.
33.	Uttar Pradesh	Singarauli Super Thermal Power Station, NTPC Ltd, P.O. Shaktinagar	18.08.2017	Complying	Direction issued u/s 5 of EPA, 1986 on 05.10.2017.
34.	Uttar Pradesh	National Capital Power Project - DadriVidyut Nagar, Gautambudhnagar	14.09.2017	Complying	
35.	West Bengal	Mejia Thermal Power Station, Mejia, Durlavpur, Bankura	17.07.2017	Complying	
36.	West Bengal	Farakka Super Thermal Power Station, NTPC Limited, PO Nabrun, Murshidabad	17.08.2017	Complying	
37.	West Bengal	Sagardighi Thermal Power Plant, Monigram, Sagardighi, Murshidabad	24.05.2018	Non- complying	Direction issued u/s 5 of EPA, 1986 on 02.07.2018.
38.	West Bengal	Dishergarh Power Station 12 MW Unit, Kulti Municipality, Setalpur Road, Asansol	05.09.2017	Self-closed	

Note:1. Direction under section 5 of EPA, 1986 issued to Plants includes Show Cause Notices, Technical Directions and Closure Directions.

2. Compliance status as on date (July 10, 2018).

