

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

LOKSABHA
UNSTARRED QUESTION NO.3401
TO BE ANSWERED ON 13.03.2020

Pollution from Coal-based Power Plants

3401. SHRI ARVIND GANPAT SAWANT:

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

- (a) whether a number of coal-based power plants have been penalised and shutdown for not complying with the timeline for reducing pollution under his Ministry notification dated 7th December, 2015;
- (b) if so, the details thereof along with the power plants identified to be shutdown and the action taken against such plants, plant-wise;
- (c) if not, the reasons for not taking penal actions against such power plants;
- (d) the total number of power plants shutdown due to environmental issues in the country during the last three years;
- (e) the details of mechanisms set up to identify non-compliance by the power plants and penalise them for not adhering to the environmental norms; and
- (f) the details of such coal-based power plants which have been granted environmental clearance during the last three years, plant-wise indicating their locations and name of developers?

ANSWER

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

(a) to (d) The Central Pollution Control Board (CPCB) has issued show cause directions to 31 units of 14 thermal power plants on 31.01.2020 for non-compliance of CPCB's directions dated 11.12.2017 issued for ensuring compliance of emission standards prescribed by Government of India. The list of thermal power plants is at Annexure - I.

According to Ministry of Power, there are 650 units (196667 MW) installed in the country, out of 650 units, 75 units (8304 MW) have been retired so far due to various reasons including environmental issues such as Badarpur TPS (Units – 1 to 5) of NTPC Ltd. and Rajghat TPS (Unit – 1 & 2) of IPGCL. List of these 75 units is enclosed at Annexure-II.

- (e) CPCB has started inspection of 17 categories of highly polluting industries including Coal –based Power Plants since 2016 onwards based on the alerts generated by Online Continuous Emission/ Effluent Monitoring Systems (OCEMS). Based on inspection findings, penal actions, such as, show-cause notice, closure directions, etc. deemed fit are issued under Section 5 of the Environment (Protection) Act, 1986 to non-complying units.
- (f) The details of coal-based power plants which have been granted environmental clearance during last three years are given at Annexure III.

ANNEXURE - I

Annexure - I referred in reply to the Lok Sabha Unstarred Question No. 3401 due for answer on 13.03.2020 regarding 'Pollution from Coal-based Power Plants'

List of Thermal Power Plants which were issued show cause directions by CPCB on 31.01.2020

Sl. No.	Thermal Power Plant	Unit No. (Capacity in MW)	FGD Timeline as per CPCB directions dated 11.12.2017
1.	VizagHinduja TPP, HNPCL, Visakhapatnam, Andhra Pradesh	2 (520)	30.09.2019
2.	Sri DamodaramSanjeevaiah TPP, APPDCL, SPSR Nellore, Andhra Pradesh	2 (800)	31.12.2019
3.	Aravalli Power Corporation Limited (Indira Gandhi STPP), NTPC, Jhajjar, Haryana	1 (500) 2 (500) 3 (500)	31.12.2019
4.	Panipat Thermal Power Station, HPGCL, Panipat, Haryana	6 (210) 7 (250) 8 (250)	31.12.2019
5.	DeenBandhuChhotu Ram TPS, HPGCL, Yamunanagar, Haryana	1 (300) 2 (300)	31.12.2019
6.	Rajiv Gandhi TPP, HPGCL, Hisar, Haryana	1 (600) 2 (600)	31.12.2019
7.	Rajpura Thermal Power Plant, Nabha Power Ltd, Patiala, Punjab	1 (700) 2 (700)	31.12.2019
8.	Talwandi Sabo Power Ltd, Mansa, Punjab	1 (660) 2 (660) 3 (660)	31.12.2019
9.	Guru Hargobind Singh TPS, PSPCL, LehraMohabbat, Bhatinda, Punjab	1 (210) 2 (210) 3 (250) 4 (250)	31.12.2019
10.	Singareni Thermal Power Project, SCCL, Adilabad, Telangana	1 (600) 2 (600)	31.12.2019 30.09.2019
11.	Kothagudem (New) Thermal Power Station, TSGENCO, Khammam, Telangana	11 (500)	30.09.2019
12.	North Chennai Thermal Power Station-II, TANGEDCO, Chennai, Tamilnadu	1 (600)	31.12.2019
13.	National Capital Thermal Power Station, NTPC Dadri, Gautambudhnagar, U.P	3 (210) 4 (210) 5 (490) 6 (490)	31.12.2019
14.	Harduaganj Thermal Power Station, UPRVUNL, Aligarh, U.P.	8 (250) 9 (250)	31.12.2019

ANNEXURE - II

Annexure - II referred in reply to the Lok Sabha Unstarred Question No. 3401 due for answer on 13.03.2020 regarding 'Pollution from Coal-based Power Plants'

List of Thermal Power Plants which have been retired so far

S. NO.	Developer	Name of Project	Sector	State	Unit No.	Capacity (MW)
1	NEYVELI LIGNITE	NEYVELI TPS- I	Central	Tamil Nadu	7	100
2	HGP Corpn.	PANIPAT TPS	State	Haryana	5	210
3	TSGENCO	KOTHAGUDEM TPS A	State	Telangana	3	60
4	TSGENCO	KOTHAGUDEM TPS B	State	Telangana	6	120
5	TSGENCO	KOTHAGUDEM TPS C	State	Telangana	8	120
6	WBPDC	BANDEL TPS	State	W.B	3	60
7	WBPDC	BANDEL TPS	State	W.B	4	60
8	MAHAGENCO	PARLI TPS	State	Maharashtra	4	210
9	MAHAGENCO	PARLI TPS	State	Maharashtra	5	210
10	GSECL	KUTCH LIG. TPS	State	Gujarat	1	70
11	GSECL	KUTCH LIG. TPS	State	Gujarat	2	70
12	CSPGCL	KORBA-II	State	Chhattisgarh	1	50
13	CSPGCL	KORBA-II	State	Chhattisgarh	2	50
14	CSPGCL	KORBA-II	State	Chhattisgarh	3	50
15	CSPGCL	KORBA-II	State	Chhattisgarh	4	50
16	IPGCL	RAJGHAT TPS	State	Delhi	1	68
17	IPGCL	RAJGHAT TPS	State	Delhi	2	68
18	NTPC	BADARPUR TPS	Central	Delhi	1	95
19	NTPC	BADARPUR TPS	Central	Delhi	2	95
20	NTPC	BADARPUR TPS	Central	Delhi	3	95
21	NTPC	BADARPUR TPS	Central	Delhi	4	210
22	NTPC	BADARPUR TPS	Central	Delhi	5	210
23	GSECL	GANDHI NAGAR TPS	State	Gujarat	1	120
24	GSECL	GANDHI NAGAR TPS	State	Gujarat	2	120
25	GSECL	SIKKA REP. TPS	State	Gujarat	1	120
26	GSECL	SIKKA REP. TPS	State	Gujarat	2	120
27	GSECL	UKAI TPS	State	Gujarat	1	120
28	GSECL	UKAI TPS	State	Gujarat	2	120
29	Torrent Power Generation Ltd.,	SABARMATI	Private	Gujarat	15	30
30	Torrent Power Generation Ltd.,	SABARMATI	Private	Gujarat	16	30
31	D.V.C	BOKARO 'B' TPS	Central	Jharkhand	1	210
32	D.V.C	BOKARO 'B' TPS	Central	Jharkhand	2	210
33	D.V.C	CHANDRAPURA(DVC)	Central	Jharkhand	1	130
34	D.V.C	CHANDRAPURA(DVC)	Central	Jharkhand	2	130

35	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	1	40
36	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	2	40
37	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	3	40
38	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	4	40
39	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	5	90
40	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	6	90
41	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	7	105
42	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	8	105
43	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	9	110
44	NTPC &Jh.S.E.B	PATRATU TPS	State	Jharkhand	10	110
45	MAHAGENCO	BHUSAWAL TPS	State	Maharashtra	2	210
46	MAHAGENCO	CHANDRAPUR STPS	State	Maharashtra	1	210
47	MAHAGENCO	CHANDRAPUR STPS	State	Maharashtra	2	210
48	MAHAGENCO	KORADI TPS	State	Maharashtra	5	200
49	MAHAGENCO	PARLI TPS	State	Maharashtra	3	210
50	PSEB	GND TPS(BHATINDA)	State	Punjab	1	110
51	PSEB	GND TPS(BHATINDA)	State	Punjab	2	110
52	PSEB	ROPAR TPS	State	Punjab	1	210
53	PSEB	ROPAR TPS	State	Punjab	2	210
54	PSEB	GND TPS(BHATINDA)	State	Punjab	3	110
55	PSEB	GND TPS(BHATINDA)	State	Punjab	4	110
56	TANGEDCO	ENNORE TPS	State	Tamil Nadu	1	60
57	TANGEDCO	ENNORE TPS	State	Tamil Nadu	2	60
58	TANGEDCO	ENNORE TPS	State	Tamil Nadu	3	110
59	TANGEDCO	ENNORE TPS	State	Tamil Nadu	4	110
60	TANGEDCO	ENNORE TPS	State	Tamil Nadu	5	110
61	UPRVUNL	HARDUAGANJ TPS	State	U.P	5	60
62	UPRVUNL	OBRA TPS	State	U.P	1	40
63	UPRVUNL	OBRA TPS	State	U.P	2	50
64	UPRVUNL	OBRA TPS	State	U.P	8	94
65	UPRVUNL	PANKI TPS	State	U.P	3	105
66	UPRVUNL	PANKI TPS	State	U.P	4	105
67	D.P.L.	D.P.L. TPS	State	W.B	3	70
68	D.P.L.	D.P.L. TPS	State	W.B	4	75
69	D.P.L.	D.P.L. TPS	State	W.B	5	75
70	D.P.L.	D.P.L. TPS	State	W.B	6	110
71	D.V.C	DURGAPUR TPS	Central	W.B	3	130
72	WBPCD	SANTALDIH TPS	State	W.B	1	120
73	WBPCD	SANTALDIH TPS	State	W.B	2	120
74	WBPCD	SANTALDIH TPS	State	W.B	3	120
75	WBPCD	SANTALDIH TPS	State	W.B	4	120
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ANNEXURE - III

Annexure - III referred in reply to the Lok Sabha Unstarred Question No. 3401 due for answer on 13.03.2020 regarding 'Pollution from Coal-based Power Plants '

Details of coal-based power plants which have been granted environmental clearance during 2017

Sl. No.	Name of the Project/ Locations/ Developers	Date of Issue of EC	Project Cost
1.	2x660 MW Coal Based Super Critical Buxar Thermal Power Project (BTPP) at near Village Chausa, District Buxar, Bihar by M/s SJVN Thermal Pvt. Ltd.	28.2.2017	Rs. 10, 520 Crores
2.	4x270 MW (1080 MW) Coal based Bhadradri Thermal Power Station (BTPS) at Villages Ramanujavaram, Eddulabayyaram & Seetharampura m, Mandals Manuguru & Pinapaka, District Bhadradri Kothagudem (Erstwhile Khammam dist.), Telangana by M/s Telangana State Power Generation Co. Ltd.	15.3.2017	Rs. 7290.60 Crores
3.	5x800 Super Critical Coal Based Thermal Power Project at Veerlapalem Village, Damaracherla Mandal, District Nalgonda, Telangana by M/s Telangana State Power Generation Co. Ltd.	29.6.2017	Rs. 25,099.42 Crores
4.	2x660 Coal based Khurja Super Thermal Power Project at Villages Dushhara Kherli, Jahanpur, Naiphal and Rukanpur in Khurja Taluk, Bulandshahar Distt. Uttar Pradesh by M/s THDC India Ltd..	30.3.2017	Rs. 9747.5 Crores

5.	1x660 MW Coal Based Supercritical Panki Extension Power Project at Panki, Distt. Kanpur, Uttar Pradesh M/s Uttar Pradesh Rajya VidyutUtpadan Nigam Ltd.	29.6.2017	Rs.4712.31 Crores
6.	Expansion by addition of 2x800 MW (Phase-II) coal based TPP at Padubidri Industrial Area in Villages Yellure and Santhru, Tehsil & District Udupi, Karnataka by M/s. Udupi Power Co. Ltd.	01.08.2107	Rs. 11,500 Crores
7.	1,600 (2x800) MW Godda Thermal Power Project at Villages Motia, Gangta&Gaighat, Tehsils Godda&Poraiyahaat, District Godda, Jharkhand by M/s Adani Power (Jharkhand) Ltd.	31.8.2017	Rs. 13,906 Crores
8.	Patratu Super Thermal Power Project, Phase-I (3x800 MW) at Patratu, District Ramgarh, Jharkhand by M/s. PatratuVidyutUtpadan Nigam Ltd.	07.11.2017	Rs. 14896.28 Crores

Details of coal-based power plants which have been granted
environmental clearance during 2018

Sl. No.	Name of the Project	Date of Issue	Project Cost
9.	Proposed 200 MW (1x135 MW and 1x65 MW) Coal based Thermal Power Project at Pedaveedu Village, Mattampalli Mandal, Nalgonda District, Telangana State by the M/s M.G Power Projects Limited.	24.04.2018	Rs. 1150 Crores
10.	Proposed 25 MW Municipal Solid Waste based Thermal Power Plant (Waste to Energy) at Tehkhand, Okhla, South East Delhi, New Delhi by M/s Tehkhand Waste to Electricity Project Ltd.	26.7.2018	Rs. 375 Crores
11.	2x660 MW (Stage-III, Expansion) Coal based Ultra Super Critical Talcher Thermal Power Project, Near Talcher Town, Tehsil TalcherSadar, Angul District, Odisha by M/s NTPC Ltd	12.9.2018	Rs. 7732.35 Crores
12.	Proposed expansion of 2x660 MW Super Critical Lignite based Thermal Power Project at VillgesMudanai, Kunakurichi, Uthangal, Tehsil Vridhachalam, District Cuddalore, Tamilnadu by M/s NLC India Ltd.	29.10.2018	Rs. 8733.49 Crores

**Details of coal-based power plants which have been granted
environmental clearance during 2019**

Sl. No.	Name of the Project	Date of Issue	Project Cost
13.	Proposed 21 MW Municipal Solid Waste based Power Plant at Villages KoluaKhurd, AdampurChhavani, Phanda Block, Huzur Tehsil, Bhopal District by M/s Bhopal Municipal Solid Waste Pvt. Ltd.	11.01.2019	Rs.293 Crores
14.	Modernization & Expansion in Power Plant from 125.3 MW to 141 MW (15.7 MW) at Tehsil - Ladpura, District - Kota, Rajasthan by M/s DCM LTD.	03.01.2019	Rs.224 Crores
15.	1x660 MW Ennore Supercritical Thermal Power Project (Expansion), Village Ernavur, District Ennore, Tamil Nadu by M/s Tamil Nadu Generation and Distribution Corporation Ltd (TANGEDCO).	12.12.2019	Rs. 5,421.38 Crores
16.	3x800 MW Coal based Super-Critical Thermal Power Project (Greenfield) at Village AnnupurnaKhamar, Taluk Kamakhyanagar, Dhenkanal District, Odisha by M/s. Odisha Thermal Power Co. Ltd.	10.12.2019	Rs.16,265.425 crores
17.	1x800 MW Supercritical Coal based Singareni Thermal Power Plant (Expansion from 2x600 MW to 2000 MW) at Pegadapalli Village, Jaipur Mandal, Mancherial District, Telangana by M/s Singareni Collieries Company Ltd.	18.12.2019	Rs. 7573.51 Crores