GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.143
ANSWERED ON 20.12.2018

ULTRA MEGA POWER PROJECT

***143. SHRIMATI RITA TARAI:**

Will the Minister of POWER
be pleased to state:

(a) whether his Ministry is aware that till date about Rs. 350 crore has been contributed by the State of Odisha for the Ultra Mega Power Project (UMPP) at Bedabahal and the State Government has submitted its views/feedback on the Standard Bidding Document (SBD), if so, the details thereof and the progress made therein;

(b) the time by which his Ministry will finalize the bidding documents and initiate the bidding process of the said project without any further delay; and

(c) whether the delay in this regard would create difficulties in taking over physical possession of the land and if so, the details thereof and the action proposed to be taken thereon?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : A Statement is laid on the Table of the House.

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STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO.143 ANSWERED IN THE LOK SABHA ON 20.12.2018 REGARDING ULTRA MEGA POWER PROJECT.

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(a) : As on date, Government of Odisha has contributed about Rs.351 Crore towards the Commitment Advance, Cost of land, Charges for keeping safe custody of land and Miscellaneous expenses. Further, Government of Odisha had submitted its views/feedback on Standard Bidding Documents (SBDs).

(b) : Ministry of Power had constituted an Expert Committee for revising the Guidelines and SBDs for UMPPs. The views / feedback on SBDs by Orissa Govt as considered appropriate were incorporated in the draft SBDs prepared by the Expert Committee. The combined guidelines for UMPPs based on Domestic coal, Imported coal and Linkage coal is under finalization. The bidding process for Odisha UMPP will be initiated after finalization of Guidelines and SBDs.

(c) : The land for the project is being acquired by Odisha Industrial Infrastructure Development Corporation (IDCO) on behalf of Orissa Integrated Power Limited, the Special Purpose Vehicle (SPV) for this project. IDCO will provide encumbrance free possession of land at the time of signing of lease.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1613
ANSWERED ON 20.12.2018

CONVERSION OF WASTE INTO COMPOST

†1613. SHRI HARIOM SINGH RATHORE:

Will the Minister of POWER
be pleased to state:

(a) the details of the major achievements in the projects of converting waste to compost and generating energy;

(b) if so, the details thereof;

(c) the names of the cities where the work of converting waste to compost and generating energy is going on including the list thereof;

(d) the total amount spent on both the above projects and the proposed future plans in this regard; and

(e) whether the private companies have shown any interest in these projects and if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) to (c) : The details of the major achievements in the projects of converting waste to compost and generating energy are as under:

- **The Swachh Bharat Mission –Urban(SBM-U) provides Central share funds for State High Power Committee (SHPC) approved proposals for establishment of Waste to Compost (WtC) and Waste to Energy (WtE) plants from State Governments/UTs. There are 635 numbers of WtC plants functioning with the actual output of 17.58 lakhs tons per annum of compost.**

.....2.

- **Power generation capacity of 249.73 MW, biogas generation capacity of 6,65,606 m^3/ day 55.46 MW equivalent (MWeq) and BioCNG generation capacity of 50428kg/ day (10.05 MWeq) with cumulative achievement of 315.24 MWeq have been achieved till 30.11.2018. The details of the plants are given at Annexure.**

- **As per Ministry of Agriculture, the Government has taken steps to produce/promote the use of manures from organic waste. Under National Mission of Sustainable Agriculture (NMSA) assistance is provided for setting up of mechanized Fruit/ Vegetable market waste/ Agro waste compost production unit 100% financial assistance to State Government/ Government Agencies upto a maximum limit of Rs.190.00 lakh per unit and 33% of project cost maximum limited to Rs.63 lakh per unit for individuals/private agencies through NABARD as capital investment for establishment of agro/vegetable waste compost production units of 3000 Tonnes Per Annum (TPA) production. Under Paramparagat Krishi Vikas Yojana (PKVY), assistance is provided for organic conversion, organic inputs, on-farm input infrastructure @ Rs.31,000/hectare for 3 years and under Mission Organic Value Chain Development for North Eastern Region (MOVCD-NER), assistance is provided for on-farm and off-farm inputs production infrastructure @ Rs 3750/hectare for 3 years.**

(d) & (e) : The waste to energy projects are set up by private developers and the Ministry of New and Renewable Energy (MNRE) provides central financial assistance under Waste to Energy Scheme. The total amount spent is not known/monitored. However, during the last 3 years an amount of Rs. 44.95 Crores has been provided by MNRE to various Waste to Energy projects as central financial assistance.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1613 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Sr. No.	Project	Project Developer	Location of Plant	Capacity (MWeq.)
1	14040 m3 /day Biogas plant from starch industry waste	M/s Vijaynagar Bio Tech Ltd.	Kotha Kopperla Vill. Usapatiregu- Mandal, Vizianagarm District, A.P	1.17
2	12000 m3/day Biogas Generation Plant from Oil Extraction Industry	M/s Radhika Vegetable Oils Pvt. Ltd.	Shreeramnagar Vizianagaram Dist., A.P--535101,	1.00
3	24000 m3/day Biogas Generation Plant from Oil Extraction Industry	M/s NavaBharat Ltd (formely Nava Bharat Agro Products Ltd)	Uppalametta, Jangareddigudem, West Godavari Distt. A. P.	2.00
4	8000 m3 /day Biogas Generation Plant from Starch Industry Effluent	M/s Vensa Biotek Ltd	Vensa Biotek, Samalkot, A.P.	0.70
5	9000 m3/day Biogas plant. and 0.26 MW biogas based power plant from Decanter cake,Poultry litter, Cattle dung and Agricultural residue.	M/s Synergy Biorefineries Pvt. Ltd.	Samalkot, East Godavari Dist., A.P.	1.01
6	6 MW power plant based on palm fruit empty bunches and other industrial wastes- combination of boiler and turbine	M/s Food Fats and Fertilizer Ltd.	Tadepalligudem, West Godavari Dist.	6.00
7	0.95 MW Power plant based on direct combustion of palm fruit waste from Palm Oil Extraction Plant	M/s Nava Bharat Agro Products Ltd.	Uppalmetta, Jangareddigudem, West Godavari Dist., A.P.	0.95
8	1.0MW Power plant based on Biogas from Palm Oil Extraction Plant	M/s Nava Bharat Agro Products Ltd.	Uppalametta, Jangareddigudem, West Godavari Distt. A. P.	1.00
9	1.2MW Power plant based on Biogas from Distillery Effluent	M/s Vijaynagar Bio Tech Ltd.	Pusapatiregu, Mandal, Vizianagram, A.P.	1.20
10	7.5MW Poultry liitter based Power Project	M/s Redan Infrastructure Pvt. Ltd.	Kallupalli Village, Gangavaram Mandal, Chittoor Dist., A.P.	7.50
11	2.75MW Power plant based on Biogas from Oil Industry Effluent	M/s Gowthami Oil Solvents Ltd.	Gowthami Oil Solvents Ltd.,Tanuku, A.P.	2.75
12	4.0 MW Power plant from direct combustion of Starch Industry Solid waste	M/s Vensa Biotek Ltd	Vensa Biotek Ltd., East GodavariDistrict, Samalkot, A.P.	4.00
13	6.0 MW Power plant based on MSW	M/s Sriram Energy Systems Ltd.	Vijaywada, A.P.	6.00
14	3.0 MW Power plant based on Biogas from Palm Oil Industry Effluent	M/s Sai Renewables (P) Ltd.	Kamavarakupota, West Godavari District. A.P.	3.00

15	0.15 MW Power generation from vegetable market wastes, sewage sludge and slaughter house wastes.	Municipal Corporation	Vijaywada , AP	0.15
16	1.0 MW Power plant based on Biogas from Sugar Industry Effluent	M/s Sri Survaraya Sugars Ltd.	Chelluru Village, East Godavari Distt., A.P.	1.00
17	1.0 MW Power plant based on Biogas from Sugar Industry Effluent	M/s Jeypore Sugar Company Ltd.,	Chagallu Village, West Godavari Distt.	1.00
18	0.75 MW Power plant based on Biogas from Distillery Effluent	M/s Tern Distilleries (P) Ltd.	Tallapalam Village, Visakhapatanam, A.P.	0.75
19	3.66 MW Power plant based on Poultry Litter-Boiler and Steam Turbine	M/s Raus Power Ltd.,	Dupalapudi, East Godavari Distt., A.P.	3.66
20	1.6 MW Power plant based on Biogas from Palm Oil Industry Effluent	M/s Goderj Oil Palm Limited	Ch. Pothepalli dawarka, Tirumala Mandal, West Godawari Dist. A.P.	1.60
21	12000 m3/day Biogas Generation Plant from Strach Industry effluent	M/s Auro Sundram International Pvt. Ltd.	Biada Industrial Area, Forbesganj, Dist. Arariya, Bihar	1.000
22	0.33 MW Power plant based on Biogas from Strach Industry effluent	M/s Rajaram Maize Products	Vill. Mohad, Distt. Rajnandgaon, Chhattisgarh	0.330
23	16 MW MSW based Power Project	M/s Timarpur Okhla Waste Management Company Ltd. (TOWMCL)	Old NDMC Compost Plant, Okhla, New Delhi	16.00
24	12MW MSW based power Plant	M/s East Delhi Waste processing, Barakhamba, New Delhi	Ghazipur, New Delhi	12.00
25	24MW MSW-RDF based power plant at Narela, Delhi	M/s Delhi MSW Solutions ltd. (Ramky Group)	Narela , Delhi	24.00
26	6538 kg/day Bio-CNG from 14000 m3 /day Biogas generation plant from Urban (153TPD) & Industrial Waste (38TPD) -total 191 TPD(Cattle dung, Banana stem, Poultry litter, Napier grass and Caster deoiled cake)	M/s Bharat Biogas Energy Ltd.	R.S. No. 806, Palki Road side, Sundalpura, Tal. & Dist. Anand, Gujrat	1.16
27	6000kg/day BioCNG from 14000 m3/day Biogas Generation Plant from Urban waste-163TPD (Cow Dung, Potatoes, Sugar Cane Waste, Groundnut Shells and Castor & Cotton Stalks)	M/s Greenearth Biogas Pvt Ltd.	Survey No.442,Kukuda Village,MuliTaluka,Dist.Surendranagar,Ahmedabad-Rajkot Highway No17,Gujarat	1.16
28	12000 m3/day Biogas Generation Plant from Strach Industry effluent	M/s Riddhi Siddhi Gluco Biols Ltd.	Ridhi Sidhi Nagar, Village Juna Paddar, Viramgam, Dist. Ahmedabad.	1.00
29	4800 m3/day Biogas Generation Plant from Strach Industry effluent	M/s Anil Starch,	Ahmedabad, Gujarat.	0.40
30	5500 m3/day Biogas Generation Plant from Strach Industry effluent	M/s Riddhi Siddhi Gluco Biols Ltd.	Riddhi Siddhi Nagar, Village – Juna Paddaar, Becharjee Road, Virmgam, Distt. Ahmedabad, Gujarat	0.46
31	2500 m3/day Biogas Generation Plant from Gelatine Industry effluent	M/s India Gelatine and Chemicals Ltd.	Vapi, Valsad, Gujarat	0.21
32	0.95 MW Power plant based on Biogas from Strach Industry effluent	M/s Gujarat Ambuja Exports Ltd.	Vrindawan Rd., Dalpur, Prantij, Dist. Sabarkantha, Gujarat	0.95

33	Power Generation Plant of 1.067 MW capacity using Biogas produced from maize effluent waste	M/s Everest Starch India Pvt. Ltd.	Samrat Industrial Area, Road no. 29, Plot 23, Gondal Road, Rajkot, Gujarat	1.067
34	40 kW biogas based power plant industrial waste	M/s Vadilal Industries Ltd.	Vadilal House, 53, Shrimali Society, Nr. Navrangpura Railway Crossing, Navangapura, Ahmedabad – 380009	0.04
35	2.0 MW Power plant based on Biogas from Industrial Effluent	M/s Kanoria Chemicals & Industries Ltd.,	Ankleshwar, Gujarat	2.00
36	0.5 MW Power plant based on Biogas generated at Sewage Treatment Plant	Surat Municipal Corporation	Sewage Treatment Plant, Surat	0.50
37	3.0 MW Power plant based on Biogas generated at Sewage Treatment Plant	Surat Municipal Corporation	Sewage Treatment Plant, Surat, Gujarat	3.00
38	1.0 MW Power plant based on Biogas from Starch Industry Effluent	M/s Sayaji Industry Ltd.	Ahmedabad, Gujarat	1.00
39	0.945 MW Power plant based on Biogas from Starch Industry Effluent	M/s Gujarat Ambuja Exports Ltd.	Vrindavan Road, Vill. Dalpur, Tal: Prantij, Dist. Sabarkantha., Gujarat	0.945
40	0.833 MW Power plant based on Biogas from Starch Industry Effluent	M/s Sayaji Industry Ltd.	P.O. Kathwada, Maize Products, Ahmedabad, Gujarat	0.833
41	0.945 MW Power plant based on Biogas from Starch Industry Effluent	M/s Santosh Starch Products	Village Morgar, Santoshdham, Sukhpar Road, Post Sukhpar, Tal. Bhachau, Dist. Kutch, Gujarat	0.945
42	600kg/day Bio-CNG from 1500 m3 /day Biogas generation plant from Poultry Litter	M/s Sarovar Agro Farms & Biogas Pvt. Ltd.	Village - Jatwar, Tehsil:- Naraingarh, Dist. Ambala (Haryana)	0.13
43	1.0 MW Power plant based on Biogas from Distillery Effluent	M/s Ashoka Distillers & Chemicals (P) Ltd.	Gehlab Road, Hathin, Distt. Palwal, Haryana	1.00
44	3.0 MW Power plant based on Biogas from Distillery Effluent	M/s Globus Spirits Ltd.	Samalkha, Distt. Panipat, Haryana	3.00
45	1450kg/day Bio-CNG from 4000 m3 /day Biogas generation plant from Poultry Litter	M/s Panchkula Farms Pvt. Ltd.	Village Jaspur, Distt. Panchkula, Chandigarh	0.33
46	12000 m3/day Biogas Generation Plant	M/s Sukhjit Agro Industries	VPO Gurplah (Bathu), The. Haroli, Dist. Una, H.P.	1.00
47	1800kg/day BioCNG from 5000 m3/day Biogas Generation Plant from Urban waste	M/s Mahindra & Mahindra Ltd.	Survey No.71/3, Santhehalli Village, Malur Taluk, Kolar District, Near Bengaluru, Karnataka	0.42
48	29,260 m3/day Biomethanation plant from starch industry waste	M/s Gujarat Ambuja Exports Ltd.	Vill Hulasogi, Tal. Shigaon , Dist. Haveri, Karnataka	2.438
49	4800 m3/day Biogas Generation Plant from Starch Industry effluent	M/s Millenium Starch India Pvt. Ltd.	KSIDC Area, Vill Satti, Tal. Atthani Dist. Bilgaum, Karanataka	0.40
50	24000 m3/day Biogas Generation Plant from Starch Industry effluent	M/s Riddhi Siddhi Gluco Biols Ltd.	Gokak, Karnataka	2.00

51	2.4 MW Power plant based on Biogas from Starch Industry Effluent	M/s Gujarat Ambuja Exports Ltd.	Vill Hulasogi, Tal., Shiggaon, Dist. Haveri, Karanataka	2.40
52	1.0 MW Grid Connected Power plant based on Biogas from Sugar Industry Effluent	M/s Ugar Sugar Works,	Belgaum, Karnataka	1.00
53	1.0 MW Power plant based on Biogas from Starch Industry Effluent	M/s Riddhi Siddhi Gluco Biols Ltd.	Belgaum, Karnataka	1.00
54	1.4 MW Power plant based on Biogas from Sugar Industry Effluent	M/s NSL Sugars Ltd.	Koppa village, Maddur Taluk, Mandya distt., Karnataka	1.40
55	2760 m3/day Biomethanation plant from Gelatin Industry Waste	M/s Nitta Gelatin India Ltd.	Kathikudam, Thrissur Dist., Kerala	0.23
56	1200kg/day BioCNG from 3000 m3/day Biogas Generation Plant from Cattle Dung	M/s Shri Dayoday Urja Evam Jaivik Khaad	village-Dob Barkhedi Sukhi Sevania, Tehsil-Huzur,Distt. Bhopal (MP).	0.25
57	4400 m3/day Biogas Generation Plant from Starch Industry effluent	M/s Siddi Vinayak Agro Industries Pvt. Ltd.	Chand Road, Vill Saliya, Chhindwara, M.P.	0.366
58	Biogas generation project for leather solid waste (chrome shavings)	M/s Tata International Ltd.	Dewas, M. P.	0.025
59	Tannery liquid waste based biomethanation project	M/s Bhopal Gelatines Pvt. Ltd.	Jinsi, Bhopal, M.P.	0.08
60	11.5 MW MSW based grid connected Power project-9MW exportable	M/s Essel Infraprojects Ltd.	Jabalpur, Madhya Pradesh	11.50
61	Biogas based power project	M/s Som Distilleries Ltd.	Raisen, M.P.	2.70
62	Biogas based power project	M/s RDM Care Pvt. Ltd.	Pariyat, Jabalpur, M.P.	1.20
63	3613kg/day BioCNG from 7200 m3/day Biogas Generation Plant from Cattle Dung	M/s Clarus Bioenergy Pvt. Ltd.	Plot No. D-5, Shirala Industrial Growth Center, MIDC, Shirala, Dist. angli,Maharashtra.	0.600
64	7920 kg/day Bio-CNG from 19200 m3/day Biogas generation plant from distillery waste	M/s Green Elephant India Pvt. Ltd.	Kisanveernagar, Bhuinj, Tal. Wai, Dist. Satara, Maharashtra	1.600
65	8000kg/day BioCNG from 20000 m3/day Biogas Generation Plant from Press Mud, fruit waste, spent wash from Distillery	M/s Spectrum Renewable Energy Pvt. Ltd.	Warana nagar, Kolhapur, Maharashtra	1.66
66	3430 m3/day Biogas Generation Plant from Yeast Industry Effluent	M/s SAF Yeast Company Pvt. Ltd.	Chiplun, District Ratnagiri,Maharashtra	0.29
67	12096 m3/day Biogas Generation Plant from Pharma Industry Effluent	M/s Embio Ltd.	E-21, MIDC Industr. Area Mahad, Dist. Raigad, M.S.	1.008
68	11000 m3/day Biogas Generation Plant from Starch Industry effluent	M/s Shri Tradco Deesan Pvt. Ltd.	93, 94 & 80, Mumbai Agra Road, Biladi Phata, Deopur, Dhule, Maharashtra	0.916
69	7200 m3/day Biogas Generation Plant from Diary Industry Effluent	M/s Schreiber Dynamix Dairies Ltd	MIDC, Bhigwan Rd., Basamati, Pune , Maharashtra	0.600
70	14,000 m3 /day Biogas Generation Plant from Starch Industry Effluent	M/s Universal Starch-Chem Allied Ltd.	Rawal Industrial Estate, Dadanagar, Dondaicha, Distt. Dule Maharashtra	1.160
71	10,000 cum. biogas per day Biomethanation project based on Starch industry waste	M/s Universal Starch-Chem Allied Ltd.	Rawal Industrial Estate, Dadanagar, Dondaicha, Distt. Dule Maharashtra	0.90

72	10000 m3/day Biogas Generation Plant from Seafood Industry waste	M/s Gadre Marine Export Pvt. Ltd.	Ratnagiri, Maharashtra	0.86
73	4410 m3/day Biogas Generation Plant from Yeast Industry Effluent	M/s SAF Yeast Company Pvt. Ltd.	Ratnagiri, Maharashtra,	0.36
74	4.925 MW power generation project using non-conventional material i.e. biogas being produced from distillery liquid waste (industrial waste) through 100% biogas engines	M/s Pioneer Distilleries Ltd.,	District-Nanded,Maharashtra	4.725
75	3.0 MW Power plant based on Biogas from Distillery Effluent	M/s Radico NV Distilleries Maharashtra Ltd.	D-192 to D-195, MIDC Shendra, Five Star Industrial Area, Aurangabad, Maharashtra	3.00
76	1.2 MW Power plant based on 14000cum Biogas from Starch Industry Effluent	M/s Sahyadri Starch & Industries Pvt. Ltd.	Plot No. A/6-7-8,MIDC, Miraj-416410, Dist. Sangli, Maharashtra.	1.200
77	1.668 MW Power plant based on Mixed Urban (10%) and industrial (90%) waste	M/s Jain Irrigation System Ltd.	Jalgaon, Maharashtra	1.668
78	3.0 MW Grid Connected Power plant based on Biogas from Distillery Effluent	M/s Lokmangal Agro Industries Ltd.	Subhashnagar, A/p Bibi darphal, Tal. North Solapur, Maharashtra	3.860
79	1.063 MW Power plant based on Biogas from Starch Industry Effluent	M/s Shri Tradco Deesan Pvt. Ltd.	93, 94 & 80, Mumbai Agra Road, Biladi Phata, Deopur, Dhule, Maharashtra	1.063
80	1.063 MW Power plant based on Biogas from Starch Industry Effluent	M/s Honest Derivatives Pvt. Ltd	Maldabhadi, Tal Jamner, Dist. Jalgaon, Maharashtra	1.063
81	1.475 MW Biogas based Power Project from distillery waste	M/s Loknete Baarao Patil Agro Industries Ltd.	Laxminagar, Tal. Mohol, Dist. Solapur, Maharashtra	1.475
82	1.063 MW Power plant based on Biogas from Starch Industry Effluent	M/s Yashwant Energy Pvt. Ltd.	Alppadali, Tal. Shirala, Dist. Sangli, Maharashtra	1.063
83	Power Generation Plant of 1.406 MW capacity using Biogas produced from Distillery effluent waste	M/s Vitthal Coorporation Ltd.	Vitthal Rao Shinde Nagar, Post-Mhaisgaon, Tal. Madha, Dist. Solapur, Maharashtra	1.406
84	1.0 MW Grid connected Power plant based on Biogas from Industry Effluent	M/s Brihan Sugar Syndicate Ltd.	Sheerpur, Dist. Solapur, Maharashtra	1.00
85	0.69 MW Power plant based on Biogas from Distillery Effluent	M/s Tilak Nagar Distilleries	Ahmednagar ,Maharashtra	0.69
86	2.0 MW Power plant based on Biogas from Industry Effluent	M/s Sanjivani Sah. Sakhar Karkhana Ltd.,	Sahajanand Nagar, P.O. Shingnapur, Tal Kopargaon, Distt. Ahmed Nagar,	2.00
87	3.0 MW Power plant based on Biomethanation of organic part of MSW through Technology DRYADTM which is based on Theremophilic Process	M/s Solapur Bio-energy Systems Pvt. Ltd.,	Kachra Depo, Tuljapur Road, Solapur, Maharashtra	3.00
88	1847kg/day BioCNG from 5000 m3/day Biogas Generation Plant from Cattle Dung	M/s Arc Biofuel Pvt. Ltd.	Village Khotesaran, Handiaya, Marisa Rd. Barnala, Punjab	0.416

89	12000 m3/day Biogas plant from Starch Industry Effluent	M/s Pioneer Industries Ltd.	Plot No. A-3, A-4, IGL, Defence Rd., V.P.O. Ranipur, Pathankot, Punjab	1.00
90	Biogas generation project for Paper Mill Black Liquor	M/s Satia Paper Mills	Satia Paper Mills, Muktsar, Punjab	0.75
91	4500 m3/day Biogas Generation Plant from Paper Industry Effluent	M/s Shreyans Industry Ltd.	Sangrur, Punjab	0.37
92	5500 m3/day Biogas Generation Plant from Starch Industry effluent	M/s Sukhjit Starch & Chemicals Ltd.	Phagwara, Punjab	0.46
93	2800 m3/day Biogas Generation Plant from Paper Industry Effluent	M/s Shreyans Industry Ltd.	Village Banah, Distt. S.B.S. Nagar, Punjab.	0.233
94	2.6 MW Power plant based on Biogas from Distillery Effluent	M/s Patiala DISTILLERIES & Manufacturing Ltd.	Vill Main Dist. Patiala, Punjab	2.60
95	0.37 MW Power plant based on 4500cum/day Biogas from Paper Industry Effluent	M/s Satia Industries Ltd.	Vill Rupana, Dist. Muktsar, Punjab	0.37
96	1.2MW Power plant based on Biogas from Distillery Effluent	M/s Pioneer Industries Ltd.	Plot No. A-3, A-4, IGL, Defence Rd., V.P.O. Ranipur, Pathankot, Punjab	1.20
97	Power generation through bio-methanation from Cattle dung	Haebowal, Ludhiana, Punjab	Haebowal, Ludhiana, Punjab	1.00
98	8.25 MW grid connected Power plant based on Biogas from Distillery Effluent	M/s Chandigarh Distillers and Bottlers Ltd.	Banur, Dist. Patiala, Punjab	8.25
99	3000kg/day BioCNG from 8400 m3/day Biogas generated at STP	M/s Brajdham Power Pvt. Ltd.	Sewage Treatment Plant, Delawas, Jaipur, Rajasthan	0.70
100	1000 kg/day BioCNG from 2500 m3 /day Biogas generation plant from Cattle dung	M/s NRB Bio-Energy,	2 PBN, Dabli Rathan, Teh. & Distt. Hanumangarh, Rajasthan -335 512	0.21
101	3.0 MW Power plant based on 36000cum/day Biogas from Distillery Effluent	M/s Globus Spirits Ltd.	Village Shyampur, Tehsil Behror, Distt. Alwar, Rajasthan	3.000
102	2600 m3 /day Biogas plant from Tapioca starch industry waste	M/s Sri Velmuragan Sago Factory,	Malaiyalapatty, Peraenbalur, T.N.	0.22
103	3177 m3 /day Biogas plant from Tapioca starch industry waste	M/s Palaniandavar Sago Factory,	Paithur, Attur Tk, Salem, T.N.	0.26
104	5068 m3 /day Biogas plant from Tapioca starch industry waste	M/s Sri Krishna Industrial Starch Factory,	Gangavalley, TK, Salem, T.N.	0.42
105	3755 m3 /day Biogas plant from Tapioca starch industry waste	M/s R.S. Sago Factory R. Selraj & Co.	Siteri, Attur, TK, Salem, T.N.	0.31
106	2020 m3 /day Biogas plant from Tapioca starch industry waste	M/s Mappilai Sago Factory,	Siteri, Attur, TK, Salem, T.N.	0.17
107	20,160 m3 /day Biogas plant from sago starch industry waste	M/s Varalakshmi Company	No. 3, Kommapalayam, Rasipuram,Namakkad,T.N.	1.68
108	7200 m3 /day Biogas Generation Plant from Starch Industry Effluent	M/s SPAC Starch Products (India) Ltd	Poonachi Village, Anthiyur Tk, Erode District, Tamil Nadu	0.60
109	300 m3 /day Biogas generation project using tannery fleshings and sludge.	Biogas generation project using tannery fleshings and sludge	Melvisaram, Tamilnadu.	0.03
110	6000 m3 /day Biogas generation project for tapioca processing industry waste wate	M/s Varalakshmi Starch Industries Ltd.	Varalaxmi Starch Industry Ltd, Salem, TN.	0.50
111	15000 m3 /day Biogas generation project for paper mill effluents.	M/s Tamil Nadu Newsprints and Papers Ltd.	Karur, T N	1.25

112	12000 m3 /day Biogas plant from starch industry waste	M/s Varalakshmi Starch Industries Ltd.	Salem, T.N.	1.00
113	9000 m3 /day Biogas plant from starch industry waste	M/s Varalakshmi Company	Mallur, Salem, Distt. Namakkal, T.N.	0.75
114	12000 m3 /day Biogas plant from tapioca starch industry waste	M/s Spac Tapioca Products (India) Ltd.	Poonachi Bhavani TK , Erode, Tamilnadu	1.00
115	2890 M3 biogas per day Tapioca starch industry waste based Biomethanation plant.	M/s Anbu Rice, Oil & Sago Factory	Ammampalayam P.O., Attur Tk., Salem.	0.24
116	2890 M3 biogas per day Tapioca starch industry waste based Biomethanation plant.	M/s Sri Velmurugan Sago Factory	Oduvankurichi Post, Rasipuram Taluk, Namakkal Distt. T.N.	0.24
117	2890 M3 biogas per day Tapioca starch industry waste based Biomethanation plant.	M/s Sri Senthil Kumar Sago Factory	Thimmanaickenpatty, Rasipuram Taluk, Namakkal. T.N.	0.24
118	2890 M3 biogas per day Tapioca starch industry waste based Biomethanation plant.	M/s Vetrivel Sago Products	Vellakkalpatti Post, Rasipuram Taluk, Namakkal. T.N.	0.24
119	2890 M3 biogas per day Tapioca starch industry waste based Biomethanation plant.	M/s Sri Thirumalaivasan Sago & Starch Products	Toppapatty, Rasipuram Taluk, Namakkal T.N.	0.24
120	2890 M3 biogas per day Tapioca starch industry waste based Biomethanation plant.	M/s Sri Venkateswara Sago & Starch Products	O. Jedarpalayam Post, Rasipuram Taluk, Namakkal T.N.	0.24
121	2890 M3 biogas per day starch industry waste based Biomethanation plant.	M/s M.R. Samy Sago Factory	Tammapatty Gangavalli Tk., Salem T.N. Tammapatty Gangavalli Tk., Salem T.N	0.24
122	3396 M3 biogas per day starch industry waste based Biomethanation plant.	M/s Murugan Sago Factory,	K. Palanivel Gounder & Co., Ulipuram, Gangavalli Tk., Salem, T.N.	0.283
123	1992 M3 biogas per day starch industry waste based Biomethanation plant.	M/s Vetrivel Sago Factory,	Ulipuram Pudur, Gangavalli Tk., Salem T.N.	0.166
124	1992 M3 biogas per day starch industry waste based Biomethanation plant.	M/s Annai Sago Factory	Ulipuram, Gangavalli Tk., Salem T.N.	0.166
125	1992 M3 biogas per day starch industry waste based Biomethanation plant.	M/s Sri Soorya Sago Factory	Echampatty, Attur Tk., Salem T.N.	0.166
126	2880M3 biogas per day starch industry waste based Biomethanation plant.	M/s Jayamurugan Sago Factory,	Kopampatty, Thuraiyur Tk., Namakkal, T.N.	0.24
127	3960 M3 biogas per day starch industry waste based Biomethanation plant.	M/s Ganesa Samy Sago Factory,	Ariyagoundampatty Namgiripet, Rasipuram Tk., Namakkal, T.N.	0.33
128	2496 M3 biogas per day starch industry waste based Biomethanation plant.	M/s Sri Venkateswara Sago Factory	Namgiripet, Rasipuram Tk Namakkal T.N.	0.208
129	13000 m3/day Industrial waste based Biogas plant. And 2.2 MW biogas based power plant	M/s Varalakshmi Starch Industries Ltd.	Salem. T.N.	3.28
130	0.20 MW Power project based on Biomethanationon of waste water treatment plant at Sago manufacturing	M/s Varalakshmi Starch Industries Ltd.	Varalakshmi Starch Industry Ltd., Mallur,Salem, Tamilnadu	0.20
131	2.4MW Power generation project based on biogas from Poultry,Sago,Press Mud Industry Waste	M/s IOT Mabagas Ltd.,	Puduchatram Namakkal Dist. ,T.N.	2.40
132	1.5MW Power generation from poultry droppings.	M/s G.K. Bio-energy Pvt. Ltd.	Namakkal, T.N.	1.50

133	0.25 MW Power generation from vegetable market wastes.	CMDA, Chennai	Koyembadu Market Yard,Chennai	0.25
134	2.5MW Poultry litter based power generation project.	M/s Subhashri Bio-energies Pvt. Ltd.	Namakkal, T.N.	2.50
135	Biogas based 1.4MW power project with 100% biogas engine.	M/s Trichi Distillers & Chemicals Ltd.	Senthannipuram, Tiruchirapalli , T.N.	1.40
136	12000 m3/day Biogas Generation Plant from Starch Industry effluent	M/s SNS Starch Ltd.	Konderra Vill. Idikyala Mandal, Mehboob Nagar, Telangana	1.00
137	12000 m3/day Biogas plant from Starch Industry Waste	M/s Sukhjit Starch Mills	P.B. 321, Mubarak Nagar, Nizamabad, Telangana	1.00
138	2600 m3/day Biogas Generation Plant from Slaughter house waste	M/s Alkabeer Exports Ltd.	Alkabeer Exports Ltd., Maharashtrak ,Telangana	0.25
139	2500 m3/day Biogas Generation Plant from Slaughter house waste	M/s Alkabeer Exports Ltd.	Alkabeer Exports Ltd., Maharashtrak, Telangana	0.25
140	3.5 MW grid connected Power plant based on Biogas from Poultry Litter	M/s SLT Power & Infrastructure Projects Pvt. Ltd.,	Pocham Pally Village & Mandal, Nalgonda Dist., Telangana	3.50
141	1.0 MW Power plant based on Biogas from Sugar Industry Effluent	M/s Gayatri Sugars Ltd.	Dist. Nizamabad, Telangana.	1.00
142	7.5 MW grid connected Power plant	M/s Shravana Power Projects Pvt. Ltd.	Takkalapalli Vill. Yacharam Mandal, Ranga Reddy District, Telangana.	7.50
143	7.5 MW grid connected Power plant	M/s PSR Green Power Projects Pvt. Ltd.	Marikal Village, Danwada Mandal, Mahabubnagar Dist., Telangana.	7.50
144	2000kg/day Bio-CNG from 5000 m3/day Biogas generation Plant from Urban Waste (Fruit & Vegetable Market waste and cattle dung, poultry litter, etc.)	M/s Samagra Agro	Viil. Phuphwar Sui Thok, Sarsaul Kanpur Sadar	0.42
145	6000 m3/day Biomethanation plant from Paper Industry waste	M/s Mohit Paper Mills Ltd.	9 Km Stone, Nagina Road, Bijnor-246701(U.P.)	0.50
146	18,200 m3 /day Biogas Generation Plant from Yeast Industrial Waste	M/s Kothari Fermentation and Biochem Ltd.	D6-12, Rajarampur, UPSIDC Industrial Area, Sikandrabad, Dist. Bulandshahr, Uttar Pradesh	1.51
147	13,300 m3 /day Biogas Generation Plant from Paper Mill Effluent	M/s K R Pulp & Papers Ltd.	Jalalabad Road, Shahjahanpur- 242001,U.P	1.11
148	11,000 m3 /day Biogas Generation Plant from Starch Industry Effluent	M/s H.L. Agro Products Pvt. Ltd.	Akbarpur, Kanpur(Dehat), U.P.	0.92
149	Food industry waste based biomethanation project.	M/s SAF Yeast Co. Pvt. Ltd.	101, UPSIDC, Industrial Area, Sandila, Distt. Hardoi, U.P.	0.73
150	0.4 MW Power plant based on 4800cum/day Biogas from Distillery Effluent	M/s Bajaj Hindustan Ltd.	Vill. Athadama, The Rudauli, Dist. Basti, U.P.	0.400
151	1.25 MW Power plant based on Biogas from Sugar Industry Effluent	M/s Simbhaoli Sugar Ltd	Brijnathpur Dist.Ghaziabad, U.P.	1.25
152	2.0 MW Power plant based on Biogas from Distillery Effluent	M/s Radico Khaitan Limited	Bareilly Road, Rampur, U.P.	2.00
153	1.2 MW Power plant based on Biogas from Distillery Effluent	M/s Simbhaoli Sugar Ltd	Brijnathpur Dist.Ghaziabad, U.P.	1.20

154	1.415 MW biogas based power generation project from distillery waste through 100% biogas engine	M/s Bajaj Hindustan Ltd.	Golagokaranath, Dist. Lakhimpur Kheri, U.P.	1.415
155	4.00 MW biogas based power generation project from distillery waste through 100% biogas engine	M/s Dhampur Sugar Mills Ltd	Asmoli The. Sambhal Dist. Moradabad, U.P.	4.00
156	67 kg/cm2 Pressure Boiler and TG Set of 2.77 MW capacity boiler & steam turbine route	M/s SVP Industries Ltd.	Mansurpur,Pargana Tehsil Khatauli,Muzaffarnagar-251203- U.P.	2.77
157	Biogas based power project.	M/s K.M. Sugar Mills	Faizabad, U.P.	1.00
158	Biogas based power generation project .	M/s Saraya Distilleries	Gorakhpur, U.P.	2.00
159	Biogas based power generation project.	M/s Pilkhani Distillery & Chemical Works,	Pilkhani, Saharanpur Distt., U.P.	1.00
160	Biogas based power generation project .	M/s Shamli Distillery & Chemical Works.	Shamli, Muzaffarnagar Distt., U.P.	1.00
161	Captive power project using biogas produced from distillery waste.	M/s Jain distillery Ltd.	Nagina Rd, Bijnor, U.P.	1.00
162	Installation of biogas based power plant.	M/s Balrampur Chini Mills Ltd.	Distt. Balrampur (U.P.)	1.09
163	Captive power project using biogas from distillery waste.	M/s Bajaj Hindustan Ltd.	Rudauli Distillery, Distt. Basti , U.P.	3.00
164	Captive power project using biogas produced from distillery waste.	M/s Bajaj Hindustan Ltd.	BHL Gangauli Distillery, Saharanpur	3.00
165	Captive power project using biogas produced from distillery waste.	M/s Bajaj Hindustan Ltd.	Kinauni, Saharanpur, U.P.	3.00
166	Captive power project using biogas produced from distillery waste.	M/s Bajaj Hindustan Ltd.	BHL Khambarkheda Distillery, Lakhimpur Kheri, U.P.	3.00
167	Captive power project using biogas produced from distillery waste.	M/s Bajaj Hindustan Ltd.	Gola distillery, Lakhimpur Kheri, U.P.	2.50
168	Captive power project using biogas produced from distillery waste.	M/s Bajaj Hindustan Ltd.	Palia distillery, Lakhimpur Kheri, U.P.	1.50
169	2.5 MW Power plant based on 30000cum/day Biogas from Distillery Effluent	M/s Radico Khaitan Limited	Bareilly Road, Rampur, U.P.	2.50
170	3.0 MW Power plant based on 36000cum/day Biogas from Sugar Industry Effluent	M/s The Oudh Sugar Mill Ltd.	Hargaon Dist. Sitapur, U.P.	3.00
171	3.0 MW Power plant based on 36000cum/day Biogas from Industry Effluent	M/s Triveni Engineering & Industries Ltd.	Bhikki Bilaspur, Dist. Muzaffarnagar, U.P.	3.000
172	5460kg/day BioCNG from 12000 m3/day Biogas Generation Plant from Paper Mill Effluent	M/s Century Pulp & Paper	Lalkuan, Nainital, Uttarakhand.	1.00
173	Installation of 1.08 MWeq. (12,960 m3 biogas per day) starch industry liquid waste based biomethanation project	M/s Gujarat Ambuja Exports Ltd.	Plot No. C-50, ELDECO SIDCUL Industrial Park, Sitarganj - 262405, Distt. Udhamsingh Nagar, Uttarakhand.	1.080
174	6000 m3/day Biomethanation plant from Paper Industry Waste	M/s Naini Papers Ltd.	Station Road, Kashipur,Dist. Udham Singh Nagar, Uttarakhand	0.50

175	18,000 m3 /day Biogas Generation Plant from Paper mill Effluent	M/s Naini Tissues Pvt. Ltd.	Kashipur, Uttrakhand	1.50
176	Starch industry liquid waste based biomethanation project	M/s Riddhi Siddhi Gluco Biols Ltd.	Udham Singh Nagar, Uttarakhand	1.520
177	12000 m3/day Biogas Generation Plant from Starch Industry effluent	M/s Riddhi Siddhi Gluco Biols Ltd.	Plot no. 12, Sector-9 IIE Pantnanagar, District Udham Singh Nagar, Uttarakhand	1.000
178	0.95 MW Power plant based on 11999cum/day Biogas from Starch Industry Effluent	M/s Gujarat Ambuja Exports Ltd.	C-50, Eldeco Sidul Park,Sitarganj, Uttarakhnad	0.95
179	Installation of biogas based power plant	M/s Gujarat Ambuja Exports Ltd.	Udhamsingh Nagar, Uttarakhand	0.945
180	2000 m3/day Biogas Generation Plant from Starch Industry effluent	M/s Saroda Starch & Chemicals Pvt. Ltd	Kutub Sahar,P.O. Pandua, P.S. Gazol, Dist. Malda, W.B.	0.17
181	12000 m3/day Biogas plant from Starch Industry Effluent	M/s Sukhjit Starch Industries.	WBIIDC Growth Centre, NH-34, Narayanpur, Malda, W.B.	1.00
182	19,926 m3/day Biogas Generation Plant from Maize Processing Effluent	M/s Tirupati Starch and Chemicals Ltd.	Village Sejwaya, Ghatabillod, Dist. Dhar, M.P.	1.66
183	13500 m3/day Biogas Generation Plant from Starch Processing Effluent	M/s Sanstar Ltd.	Village-Karvand, Tal. Shirpur, Dist. Dhule,Maharashtra	1.125
184	Generation of Biogas on waste from Starch and allied Manufacturing Unit	M/s Gujarat Ambuja Exports Ltd.	Plot No 4, Chalisgaon, Industrial Area, MIDC, Jalgoan, Maharashtra	2.00

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1615
ANSWERED ON 20.12.2018

THERMAL POWER PLANTS

1615. SHRI M. CHANDRAKASI:

Will the Minister of POWER be pleased to state:

(a) the value of power-equipment including boilers imported from China for the thermal power plants of the country during the last five years along with the reasons for import;

(b) the reasons for import of boilers from China;

(c) the steps taken/being taken to increase domestic production/availability; and

(d) the details of progress made in the R&D projects undertaken/supported by the Government for the development of indigenous supercritical technology for the thermal power plants of the country?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b): As per Section 7 of the Electricity Act 2003, any generating company may establish, operate and maintain a generating station without obtaining a license/permission under this Act, if it complies with the technical standards relating to connectivity with the grid. Decision to import boilers is therefore taken by the developer. As per the information available in Central Electricity Authority (CEA), Chinese make import of total 50597 MW capacity has been commissioned and 18335 MW is under Construction.

.....2.

(c) : Govt. of India had initiated action for induction of supercritical technology in the country with approval of two bulk orders for supercritical thermal units through Bulk tender I in Sept' 2009 (11 x 660MW Supercritical Units) and Bulk tender II in Jan' 2011 (9 x 800MW Supercritical Units) with stipulation for setting up of manufacturing facilities for power equipment as per Phased Manufacturing Programme (PMP).

Several Joint Ventures (JVs) have set up manufacturing facilities for supercritical boilers and supercritical turbine generators in the country. The manufacturing capacity available from them amounts to about 9200 MW per year for Supercritical boilers and 11000 MW per year for Supercritical steam Turbines and Generators. BHEL have also augmented their manufacturing capacity for power equipment to about 20,000 MW per year including for around 13,500 MW per year for large thermal power projects. Thus, there is adequate domestic power equipment manufacturing capacity to meet mandatory domestic sourcing requirements for capacity addition.

In January 2017, CEA issued a modified advisory on 'Sourcing of super-critical units from indigenous manufacturers' with modifications in order to qualify Indian manufacturers on their own.

(d) : A capacity of 46210 MW based on supercritical technology has already been set up in the country.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1620
ANSWERED ON 20.12.2018

POWER DEMAND

1620. SHRI G. HARI:

Will the Minister of POWER
be pleased to state:

(a) whether there has been a 12.6 percent year-on-year rise in power demand during the first fifteen days of the third quarter of financial year (2018-19) ;

(b) if so, the details thereof;

(c) whether as on October 16, 2018 as many as 33 power plants, had fuel stock to last for less than seven days, if so, the details thereof;

(d) whether at the end of September, 22 generating stations were running with such critical stock; and

(e) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : The energy availability in the electricity grid during the first fifteen days of the third quarter of the current financial year 2018-19 was 56,419 Million Units (MU) as against 50,113 MU during the same period of 2017-18 showing a growth of 12.6%.

(c) to (e) : The number of coal based power plants having coal stock less than seven days were 33 and 22 as on 16.10.2018 and 30.09.2018 respectively. With the improvement in coal supply from domestic coal companies, the number of coal based power plants having coal stock less than 7 days have further reduced to 14 as on 13.12.2018. The coal stock in power plants have also increased from 10.2 Million Tonne (MT) sufficient for 6 days as on 16.10.2018 to 14.718 MT sufficient for 9 days as on 13.12.2018.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1625
ANSWERED ON 20.12.2018

FUEL FOR POWER GENERATION

†1625. SHRIMATI RANJANBEN BHATT:

Will the Minister of POWER
be pleased to state:

(a) whether out of the total, the 90% of electricity is generated from coal in the country, if so, the details thereof;

(b) whether use of electricity generated from coal increases pollution, if so, the details thereof;

(c) whether the Government is contemplating to take any step to minimize pollution; and

(d) if so, the details thereof and if not, the reasons therefor?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) : The quantum of electricity generated from coal based power stations is about 70.12% of total electricity generated in the country during the current year 2018-19 (April-November, 2018).

(b) to (d) : The coal based generation does emit some pollutants. The emissions are regulated by the environmental pollution norms specified by the Ministry of Environment & Forest and Climate Change (MOEF&CC) from time to time. Based on the latest stipulation on pollution norms, the Government has prepared a plan for installation of additional pollution control equipment in a phased manner during 2018-22 in existing and new coal based generating stations to control pollution. In order to reduce the reliance on fossil fuel, the Government has also planned to add 175 GW generation capacity by 2022 from renewable energy source.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1631
ANSWERED ON 20.12.2018

UMPP

†1631. SHRI KAUSHALENDRA KUMAR:

Will the Minister of POWER
be pleased to state:

(a) the present status of the proposed 4000 megawatts Ultra Mega Power Project at Banka in Bihar;

(b) the estimated cost thereof;

(c) whether there is any possibility of cost escalation in case there is delay in the execution thereof; and

(d) if so, the details thereof ?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) : A site at Kakwara in Banka Distt has been identified for setting up of UMPP in Bihar. The current status of project is given in the Annexure.

(b) : The likely cost of project would be around Rs. 30,000 Crores.

(c) & (d) : The cost escalation, if any, would be adjusted/ payable as per the provision of the Power Purchase Agreement (PPA).

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1631 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Status of Bihar UMPP
(District Banka, Bihar)

<table>
<tr><td>Land</td><td>i. “In –principle” approval accorded by Govt. of Bihar near Kakwara village in Banka District on 22.04.2013.
ii. Application for acquisition of land for power plant submitted to District Magistrate (DM) on 29.12.2016.
iii. Application for R&R Colony submitted to DM on 23.01.2017. Scrutiny by District Administration is under process.
iv. Power Finance Corporation (PFC) has deposited cost for conducting SIA Study to DM, Banka in Dec 2017.
v. District Administration is seeking advice from the State Govt. regarding timeframe for depositing estimated cost of the land to initiate SIA study.</td></tr>
<tr><td>Water</td><td>"In -principle" approval accorded by Water Resource Deptt., Govt. of Bihar on 03.05.2013 allocating 120 cusecs of water from River Ganga.

Intake point has been identified in Mahispur in Munger district.</td></tr>
<tr><td>Fuel</td><td>i. Ministry of Coal vide O.M dated 08.04.2015 tentatively recommended Pirpainti/ Barahat coal blocks to this UMPP. Further, MoC vide DO letter dated 17.02.2016 has allotted an additional area of 3.2 km² to coal block of Pirpainti/ Barahat for Bihar UMPP to provide an additional reserve of 165 MT(extractable 100 MT) so that coal block is able to meet the coal requirement of UMPP.
ii. Ministry of Power has already written to MoC requesting to expedite firm allocation of enlarged Pirpainti/ Barahat coal blocks (with an additional area of 3.2 sq.km) to Bihar Infrapower Ltd., Infra SPV for Bihar UMPP.</td></tr>
<tr><td>Creation of SPV</td><td>Operating SPV - Bihar Mega Power Limited was incorporated on 09.06.2015

Infrastructure SPV - Bihar Infra Power Limited was incorporated on 30.06.2015</td></tr>
<tr><td>Power Allocation</td><td><table><tr><th>Bihar</th><th>Jharkhand</th><th>Uttar Pradesh</th><th>Karnataka</th></tr><tr><td>2000 MW</td><td>1000 MW</td><td>600 MW</td><td>400 MW</td></tr></table>Authorization letters have been received and Joint Deed Agreement has been signed on 07.03.2016 by Procurers.</td></tr>
<tr><td>Environmental Clearance</td><td>Terms of Reference (ToR) accorded by MoEF&CC on 07.06.2016 Environmental impact assessment (EIA) studies started in October 2016.

The work on technical studies etc. has already commenced.</td></tr>
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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1634
ANSWERED ON 20.12.2018

FUEL SUPPLY

1634. SHRI K. ASHOK KUMAR:

Will the Minister of POWER
be pleased to state:

(a) whether over the past 15 months, a number of thermal power plants across the country have been running with suboptimum level of fuel stock due to inadequate supply of coal;

(b) if so, the details thereof;

(c) whether the shortage has especially affected the plants that are located far from coal mines; and

(d) if so, the details thereof ?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : The coal stock along with the number of days for which it is sufficient to run as well as the number of power plants having critical / supercritical coal stock during last 15 months in the power plants monitored on daily basis is given at Annexure.

(c) & (d) : The coal based thermal power plants which are having critical / super-critical coal stock are mainly non-pithead power plants, which are located far from coal mines. As on 12.12.2018, the number of non-pithead plants having critical and super critical coal stock was 7 each, whereas no pithead plant had critical or super critical coal stock.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1634 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Number of Plants having Critical/Super-critical coal stock and Total Stock during last 15 months									
DATE	No. of Pithead Plants having stock			No. of Non-Pithead Plants having stock			Total No. of Plants having Critical/super-critical coal stock	Total Stock (In Million Tonnes)	Stock (In Days)
	Critical	Super-Critical	Total	Critical	Super-Critical	Total			
01.09.2017	1	0	1	3	9	12	13	11.63	8
01.10.2017	0	0	0	9	15	24	24	8.38	6
19.10.2017	0	0	0	4	23	27	27	7.26	5
01.11.2017	0	0	0	8	14	22	22	7.85	6
01.12.2017	0	0	0	7	7	14	14	10.46	7
01.01.2018	0	0	0	7	6	13	13	13.17	9
01.02.2018	0	0	0	4	17	21	21	14.51	9
01.03.2018	0	0	0	11	15	26	26	15.7	10
01.04.2018	0	0	0	13	17	30	30	16.1	10
01.05.2018	1	1	2	12	18	30	32	15.95	10
01.06.2018	0	0	0	4	14	18	18	14.78	9
01.07.2018	0	0	0	7	8	15	15	15.45	10
01.08.2018	0	0	0	6	5	11	11	15.95	11
01.09.2018	0	0	0	3	8	11	11	14.58	10
01.10.2018	0	0	0	8	12	20	20	10.85	7
01.11.2018	0	0	0	9	18	27	27	10.14	6
01.12.2018	0	0	0	13	11	24	24	13.08	8
12.12.2018	0	0	0	7	7	14	14	14.61	9

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1645
ANSWERED ON 20.12.2018

ELECTRICITY DEMAND

1645. DR. P. VENUGOPAL:

Will the Minister of POWER be pleased to state:

(a) whether the sudden rise in electricity demand coupled with inadequate coal supply is precariously pushing power plants toward outage, if so, the details thereof;

(b) whether more than 10,500 MW of power plants have cited coal shortage for shutting their units down, if so, the details thereof;

(c) whether out of this, 2,700 MW and 4,210 MW went under outage in September and October respectively; and

(d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) : The details of monthly Energy demand and growth for the duration of April-November, 2018 w.r.t previous months and previous year are given below:

Month	Energy requirement during, 2017, (MU)	Energy requirement during, 2018, (MU)	Growth (%) w.r.t previous Year
April	102,552	104,014	1.42
May	107,304	112,415	4.76
June	100,230	109,373	9.12
July	102,762	109,838	6.88
August	105,656	112,719	6.68
September	102,465	109,584	6.94
October	101,327	112,983	11.50

It may be seen from the above Table that the growth during October, 2018 with respect to October, 2017 was substantial i.e. 11.50%. The peak demand during April-November was 177 GW. There was a shortage of only 0.8% of the peak demand. Similarly, there was a shortage of only 0.6% of the total energy requirement in the period.

The details of coal stock as on 1st day of the month during April-December, 2018 are furnished at Annexure-I.

(b) to (d) : The details of power plants which were reportedly under outage due to coal shortage in September & October, 2018 are furnished at Annex-II & III respectively.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1645 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Total Stock during last 15 months	
DATE	**Total Stock (In Million Tonnes)**
01.09.2017	11.63
01.10.2017	8.38
19.10.2017	7.26
01.11.2017	7.85
01.12.2017	10.46
01.01.2018	13.17
01.02.2018	14.51
01.03.2018	15.7
01.04.2018	16.1
01.05.2018	15.95
01.06.2018	14.78
01.07.2018	15.45
01.08.2018	15.95
01.09.2018	14.58
01.10.2018	10.85
01.11.2018	10.14
01.12.2018	13.08

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ANNEX-II

ANNEX REFERRED TO IN REPLY TO PARTS (b) TO (d) OF UNSTARRED QUESTION NO. 1645 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Details of Outages of Coal based Generating Stations due to coal shortage for the month of September 2018

REG-ION	STATE	SECTOR TYPE	ORGANIZA-TION	STATION	UNIT	CAPACITY (MW)	Trip Date and Time	Sync Date and Time	OUTAGE REASON
ER	WEST BENGAL	STATE	WBPDC	BANDEL TPS	2	60	02-09-2018 20:06	05-10-2018 09:13	COAL SHORTAGE
WR	CHHATTISGARH	PVT	BALCO	BALCO TPS	1	300	05-09-2018 22:57	04-10-2018 00:28	COAL SHORTAGE
WR	MAHARASHTRA	STATE	MAHAGENCO	KORADI TPS	6	210	09-09-2018 05:52	13-10-2018 20:07	COAL SHORTAGE
WR	MAHARASHTRA	STATE	MAHAGENCO	PARLI TPS	6	250	12-09-2018 06:57	01-10-2018 08:48	COAL SHORTAGE
ER	WEST BENGAL	CENTRAL	DVC	MEJIA TPS	4	210	13-09-2018 21:55	13-10-2018 21:32	COAL SHORTAGE
ER	WEST BENGAL	STATE	WBPDC	BAKRESWAR TPS	5	210	15-09-2018 01:41	05-10-2018 11:30	COAL SHORTAGE
ER	WEST BENGAL	CENTRAL	DVC	DURGAPUR STEEL TPS	1	500	16-09-2018 11:33	30-10-2018 13:52	COAL SHORTAGE
ER	WEST BENGAL	STATE	WBPDC	SAGARDIGHI TPS	1	300	17-09-2018 19:55	01-10-2018 08:14	COAL SHORTAGE
WR	CHHATTISGARH	CENTRAL	NSPCL	BHILAI TPS	2	250	19-09-2018 08:45	07-10-2018 03:43	COAL SHORTAGE
WR	MADHYA PRADESH	STATE	MPPGCL	SANJAY GANDHI TPS	3	210	19-09-2018 01:00	08-10-2018 18:49	COAL SHORTAGE
ER	WEST BENGAL	STATE	WBPDC	KOLAGHAT TPS	6	210	19-09-2018 06:46	05-10-2018 03:46	COAL SHORTAGE
WR	MADHYA PRADESH	PVT	JPPVL	BINA TPS	2	250	20-09-2018 00:39	04-10-2018 23:11	COAL SHORTAGE
WR	MAHARASHTRA	CENTRAL	NTPC Ltd.	MAUDA TPS	3	660	21-09-2018 05:15	02-10-2018 12:17	COAL SHORTAGE
SR	ANDHRA PRADESH	CENTRAL	NTPC Ltd.	SIMHADRI	1	500	22-09-2018 11:50	11-10-2018 08:00	COAL SHORTAGE
ER	ORISSA	PVT	GMR ENERG	KAMALANGA TPS	3	350	22-09-2018 09:47	01-10-2018 02:42	COAL SHORTAGE
WR	MADHYA PRADESH	STATE	MPPGCL	SATPURA TPS	7	210	24-09-2018 15:40	27-10-2018 09:58	COAL SHORTAGE
SR	ANDHRA PRADESH	STATE	APPDCL	DAMODARAM SANJEEVAI	2	800	26-09-2018 23:02	02-10-2018 00:09	COAL SHORTAGE
ER	ORISSA	CENTRAL	NTPC Ltd.	TALCHER STPS	4	500	27-09-2018 17:46	09-10-2018 22:36	COAL SHORTAGE
WR	MAHARASHTRA	STATE	MAHAGENCO	KORADI TPS	10	660	29-09-2018 12:42	09-10-2018 00:37	COAL SHORTAGE
ER	WEST BENGAL	CENTRAL	DVC	RAGHUNATHPUR TPP	2	600	29-09-2018 07:08	02-10-2018 06:10	COAL SHORTAGE
WR	MAHARASHTRA	STATE	MAHAGENCO	BHUSAWAL TPS	5	500	30-09-2018 03:50	08-10-2018 06:03	COAL SHORTAGE
WR	MAHARASHTRA	STATE	MAHAGENCO	PARLI TPS	8	250	30-09-2018 22:24	19-10-2018 16:07	COAL SHORTAGE
WR	MAHARASHTRA	PVT	RattanIndia	AMARAVATI TPS	1	270	22-09-2018 00:00	15-11-2018 00:01	COAL SHORTAGE
WR	MAHARASHTRA	PVT	RattanIndia	AMARAVATI TPS	3	270	22-09-2018 22:54		COAL SHORTAGE
WR	MAHARASHTRA	PVT	RattanIndia	AMARAVATI TPS	4	270	20-09-2018 00:00		COAL SHORTAGE
WR	MAHARASHTRA	PVT	RattanIndia	AMARAVATI TPS	5	270	21-09-2018 00:00		COAL SHORTAGE
Total Capacity						9070			

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ANNEX-III

ANNEX REFERRED TO IN REPLY TO PARTS (b) TO (d) OF UNSTARRED QUESTION NO. 1645 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Details of Outages of Coal based Generating Stations due to coal shortage for the month of October 2018

REG-ION	STATE	SECTOR TYPE	ORGANIZA-TION	STATION	UNIT	CAPACITY (MW)	Trip Date and Time	Sync Date and Time	OUTAGE REASON
NR	PUNJAB	PVT	GPGSL (GVK)	GOINDWAL SAHIB TPP	1	270	12-10-2018 00:55	22-11-2018 06:03	COAL SHORTAGE
WR	CHHATTISGARH	PVT	TRNE	NAWAPARA TPP	1	300	20-10-2018 00:30	06-11-2018 07:12	COAL SHORTAGE
WR	CHHATTISGARH	PVT	JPL	TAMNAR TPP	3	600	26-10-2018 19:56		COAL SHORTAGE
WR	CHHATTISGARH	PVT	SKS	BINJKOTE TPP	1	300	12-10-2018 00:00		COAL SHORTAGE
WR	CHHATTISGARH	PVT	SKS	BINJKOTE TPP	2	300	01-10-2018 00:03		COAL SHORTAGE
WR	CHHATTISGARH	PVT	RKMPPL	UCHPINDA TPP	2	360	18-10-2018 00:00		COAL SHORTAGE
NR	HARYANA	CENTRAL	APCPL	INDIRA GANDHI STPP	1	500	05-10-2018 00:50	05-11-2018 13:56	COAL SHORTAGE
WR	MAHARASHTRA	STATE	MAHAGENCO	PARLI TPS	7	250	19-10-2018 00:23		COAL SHORTAGE
NR	UTTAR PRADESH	PVT	BEPL	KHAMBARKHERA TPS	1	45	13-10-2018 23:59	05-11-2018 12:11	COAL SHORTAGE
NR	UTTAR PRADESH	PVT	BEPL	KHAMBARKHERA TPS	2	45	13-10-2018 23:42	05-11-2018 12:54	COAL SHORTAGE
NR	UTTAR PRADESH	PVT	BEPL	MAQSOODPUR TPS	1	45	14-10-2018 00:52	05-11-2018 12:16	COAL SHORTAGE
ER	WEST BENGAL	STATE	WBPDC	SAGARDIGHI TPS	2	300	18-10-2018 23:18	03-11-2018 01:37	COAL SHORTAGE
SR	TAMIL NADU	PVT	ITPCL	ITPCL TPP	1	600	19-10-2018 00:04	05-11-2018 05:03	COAL SHORTAGE
WR	MAHARASHTRA	PVT	VIP	BUTIBORI TPP	1	300	17-10-2018 00:30	18-11-2018 00:30	COAL SHORTAGE
ER	WEST BENGAL	STATE	WBPDC	SAGARDIGHI TPS	3	500	21-10-2018 01:21	05-11-2018 10:15	COAL SHORTAGE
ER	JHARKHAND	STATE	TVNL	TENUGHAT TPS	1	210	24-10-2018 00:02	05-11-2018 18:23	COAL SHORTAGE
ER	WEST BENGAL	STATE	WBPDC	BAKRESWAR TPS	5	210	24-10-2018 00:22	05-11-2018 16:05	COAL SHORTAGE
SR	ANDHRA PRADESH	STATE	APGENCO	RAYALASEEMA TPS	6	600	01-10-2018 10:22		COAL SHORTAGE
ER	WEST BENGAL	STATE	WBPDC	BAKRESWAR TPS	2	210	26-10-2018 00:02	02-11-2018 08:21	COAL SHORTAGE
NR	PUNJAB	PVT	TSPL	TALWANDI SABO TPP	1	660	29-10-2018 00:00	05-11-2018 06:37	COAL SHORTAGE
SR	TAMIL NADU	CENTRAL	NTECL	VALLUR TPP	1	500	25-10-2018 09:00		COAL SHORTAGE
NR	UTTAR PRADESH	PVT	BEPL	MAQSOODPUR TPS	2	45	15-10-2018 12:02	07-11-2018 23:15	COAL SHORTAGE
Total Capacity						7150			

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1646
ANSWERED ON 20.12.2018

UNIFORM POLICY FOR POWER DISTRIBUTION

1646. PROF. SAUGATA ROY:

Will the Minister of POWER
be pleased to state:

(a) whether the Government has a uniform policy to distribute power from central pool to various States in the country;

(b) if so, the details thereof;

(c) whether any State Government has approached for more power during peak hours; and

(d) if so, the details thereof along with the action taken thereon?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : Yes, Madam. Currently, Power from Central Generating Stations to the beneficiary States/Union Territories is allocated by the Government in accordance with the formula for allocation of power which is as per the extant guidelines issued vide letter No. 8/1/96-OM dated 27th April, 2000. The details are given at Annex.

(c) & (d) : Yes, Madam. During the current year (2018-19), Government of Goa requested for increasing 54.29 MW power allocation during peak hours to 72.19 MW from unallocated quota. Accordingly, Ministry of Power has allocated an additional 18 MW Power to Goa during peak hours on 18.09.2018.

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ANNEX

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1646 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Power from Central Generating Stations to beneficiary States/Union Territories is allocated in accordance with formula for allocation of power which is being treated as guidelines from April, 2000. As per these guidelines, allocation of power is made to the States/ UTs in two parts, namely firm allocation of 85% of installed capacity and remaining 15% unallocated power for allocation by the Government for meeting the urgent/overall requirement

The firm allocation includes allocation of 12% free power to the Home State(s) and 1% for local area development in case of Hydro Power Stations and 10% (paid) power to the home State in case of Thermal and Nuclear Power Stations.

The balance (72% in case of Hydro and 75% in case of Thermal & Nuclear) power is distributed amongst the States / UTs of the region in accordance with the pattern of central plan assistance and energy consumption during the previous five years, both factors having equal weightage. Central plan assistance is determined in accordance with the Gadgil formula, in which population of the States is also taken into consideration. In case of joint venture projects, the equity contributing State gets benefit in firm allocation in proportion to their equity contribution.

In 14 new projects of NTPC Ltd., Central Government has, in January, 2011, approved allocation of 50% of power to 'Home' State, 15% unallocated power at the disposal of Government of India and 35% to other constituents (except 'Home' State) of that region on the basis of extant guidelines on allocation of power giving equal weightage to central plan assistance and energy consumption by each State of the Region for preceding 5 years. Similar dispensation has also been provided by the Government in January, 2011 in respect of new projects of Nuclear Power Corporation of India Ltd.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1651
ANSWERED ON 20.12.2018

OLD POWER PLANTS

1651. SHRI R. DHRUVA NARAYANA:

Will the Minister of POWER
be pleased to state:

(a) whether the Government proposes to scrap those thermal power plants which are more than 25 years old and emit more gases which are dangerous to the environment;

(b) if so, the details of the thermal power plants to be scrapped, State-wise;

(c) whether the Government has taken any effective steps to check the crises of power problem in case these thermal power plants are scrapped in the country; and

(d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) to (d) : The emission of gases from Thermal Power Plants depend on its operation & maintenance, condition, technical parameters, quality of fuel etc rather than the age of the plant. In order to conserve scarce natural resources like land, water and coal, Central Electricity Authority, in consultation with various Power Utilities, have identified coal based plants of 10827.5 MW in Govt. Sector which are more than 25 years old, for retirement in a phased manner on the basis of their inefficiency and un-economic operation. Out of above capacity, 7730 MW have been retired so far. The State-wise details of various units retired / identified for retirement are given in the Annexure.

Furthermore, Ministry of Environment, Forest & Climate Change (MoEF&CC) has notified new stringent environmental norms on 7th December, 2015 and 28th June, 2018 for thermal power plants for Particulate Matters (PM), SO_2, NOx and Hg and water consumption.

Decision to retire units are taken by respective power utility after due consultation with various stake holders such as DISCOMS, Transmission utilities etc. keeping in view grid stability, alternative source of power among other aspects. There is no shortage of generating capacity in the country.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 1651 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Coal based Thermal Units deleted from National Installed Capacity out of identified old & inefficient units for retirement since March'16 to October'18]

Sl. No.	Name of the Utility	Name of the Station	Unit No.	Capacity (MW)	Date since when the unit is not in operation	Date of deletion from National Installed Capacity
1	MPPGCL	Amarkantak TPS (2x120 MW)	3 & 4	240	13.01.2015	04.03.2016
2	HPGCL	PanipatTPS(4x110 MW)	1 to 4	440	09.12.2015	12.04.2016
3	MSPGCL	Koradi TPS(4x105 MW)	1 to 4	420	07.01.2011	02.08.2016
		Koradi TPS (200 MW)	5	200	02.03.2017	24.04.2017
4	MSPGCL	Chandrapur TPS (2X210 MW)	1 & 2	420	20.02.2016	21.10.2016
5	MSPGCL	Parli TPS	3	210	03.05.2016	21.10.2016
6	MSPGCL	Bhusawal TPS	2	210	01.04.2017	31.08.2017
7	DVC	Durgapur TPS	3	140	10.03.2016	21.10.2016
8	DVC	Chandrapur TPS	1	130	06.01.2017	17.01.2017
		Chandrapur TPS	2	130	30.07.2017	04.09.2017
9	WBPDCL	Santaldih TPS (4x120MW)	1 to 4	480	01.04.2010	21.12.2016
10	PVUNL	Patratu TPS	1,2,3,5,8	360	29.07.2016	21.12.2016
			4,6,7,9,10	455	30.10.2017	23.11.2017
11	TANGEDCO	Ennore TPS (2x60 + 2x110 MW)	1 2 3 & 4	340	Dec., 2015 April, 2016 Dec., 2016	31.03.2017
		Ennore TPS	5	110	06.03.2012	12.01.2017
12	GSECL	Gandhinagar TPS (2x120 MW)	1 & 2	240	03.09.2016	12.01.2017
13	GSECL	Sikka TPS (2 x 120 MW)	1 & 2	240	01.04.2017	18.08.2017
14	GSECL	Ukai TPS (2 x 120 MW)	1 & 2	240	01.04.2017	18.08.2017
15	UPRVUNL	Harduaganj	5	60	12.01.2017	18.08.2017
16	UPRVUNL	Obra TPS (2X50 MW)	1 2	50 50	Sept., 2016 July, 2017	18.08.2017
		Obra TPS (1x94 MW)	8	94	Aug., 2009	03.04.2018
17	UPRVUNL	Panki TPS (2 x 210 MW)	3 & 4	210	Oct., 2017	16.03.2018
18	DPL	DPL TPS (70 + 2x75 MW)	3,4 & 5	220	01.04.2014	20.02.2017
19	APGCL	Chandrapur TPS (2x30 MW)	1 & 2	60	Before 2008	18.08.2017
20	PSPCL	GND TPS (Bathinda) (2 x 110 MW)	1 & 2	220	01.01.2018	31.08.2018
21	PSPCL	GGS STPS (Ropar) (2 x 210 MW)	1 & 2	420	01.01.2018	31.08.2018
22	NTPC	Badarpur TPS (3x95 MW)	1 to 3	285	15.10.2018	30.10.2018
23	DVC	Bokaro TPS (2 x 210)	1 & 2	420	30.07.2017	04.09.2017
24	NTPC	Badarpur TPS (2x210 MW)	4 & 5	420	15.10.2018	30.10.2018
PRIVATE SECTOR						
25	CESC	New Cossipore TPS (2x30+2x50 MW)	1 to 4	160	-	-
26	India Power Corp. Ltd. (West Bengal)	Chinakuri TPS (3x10 MW)	1,2,3	30	-	-
27		Dishergarh TPS (1x3 + 3x5 MW)	1,2,3,4	18	-	-
28		Seebpore TPS (1.5 + 1.88 + 2 + 3 MW)	1,2,3,4	8.38	-	-
Total :				7730		

Old & Inefficient Coal based Units in Govt. Sector which could be retired in F.Y.2018-19 / 2019-20

Sl. No.	Name of the Utility	Name of the Station	Unit No.	Capacity (MW)	Remarks
1	IPGCL	Rajghat TPS (2 x 67.5 MW)	1 & 2	135	Closure Report submitted by M/s IPGCL to Govt. of NCT of Delhi. Decision by Govt. of NCT of Delhi pending.
2	MPPGCL	Satpura TPS (200 + 210 MW)	6 & 7	410	Retirement proposed in 2019-20. Replacement proposed.
3	MPPGCL	Satpura TPS (2 X 210 MW)	8 & 9	420	
4	PSPCL	Ropar TPS (2 X 210 MW)	3 & 4	420	Utility is exploring possibility to set up 3x800 MW super-critical Unit as replacement.
5	CSPGCL	Korba East TPS (4 x 50 MW)	1,2,3 & 4	200	Units are proposed to be decommissioned in 2018-19.
6	NLC	NevyeliLigniteTPS-I (6 x 50 + 3 x 100 MW)	1 to 9	600	Units will be retired after commissioning of first unit of 2x500 MW TPS. (2019-20)
7	TSPGCL	Kothadudem TPS (4 x 60 + 4 x 120 MW)	1 to 8	720	Utility wants to run the plant till 2019-20.
8	TSPGCL	Ramagundem-B TPS	1	62.5	
9	DVC	Chandrapur TPS	3	130	To be retired after augmentation of Transmission scheme. Proposed to be retired in 2019-20.
			Total	3097.5	

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1669
ANSWERED ON 20.12.2018

HYDRO POWER PROJECTS

1669. SHRI DEVUSINH CHAUHAN:

Will the Minister of POWER
be pleased to state:

(a) the details of the hydro electric projects in operation and the quantum of hydro power generated by each of the projects in the last three years, State-wise;

(b) whether the Government has assessed the potential of North Eastern States for generation of hydro power;

(c) if so, the details thereof along with the steps being taken by the Government to harness the potential;

(d) whether the Central Electricity Authority has assessed the potential of the Arunachal Pradesh for generation of hydro energy; and

(e) if so, the details thereof including projects proposed to tap the hydro-electric potential of the North Eastern States along with the time by which these projects are likely to be operationalised?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER
AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) : Hydro Electric Stations numbering 204 with total installed capacity of 45,399.22 MW are in operation in the country at present. The State-wise details of Hydro Electric Stations in operation along with the quantum of electricity generated during the last three years is given at Annex-I.

(b) to (e) : Central Electricity Authority has made an assessment of hydro electric potential in the country including North Eastern (NE) States. The hydroelectric potential in NE states is 58,971 MW which includes 50,328 MW of Arunachal Pradesh. Ranganadi (405 MW) and Pare (110 MW) aggregating to 515 MW are in operation in the State of Arunachal Pradesh. The State-wise details of the identified potential in NE states are given at Annex-II.

3 Hydro Electric Projects (HEPs) namely Kameng (660 MW), Lower Subansiri (2000 MW) and Gongri (144 MW) with an aggregate capacity of 2,744 MW are presently under construction in Arunachal Pradesh. In addition, 21HEPs with an aggregate capacity of 16,899 MW have been identified for benefits for the period 2022-2029 including 16 HEPs with an aggregate capacity of 16,172 MW in Arunachal Pradesh. The details are given at Annex-III.

Steps taken by the Government to harness the potential of the Hydro Power is detailed at Annex-IV

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1669 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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STATE-WISE HYDRO GENERATION (I.C. ABOVE 25 MW) IN THE COUNTRY FROM 2015-16 TO 2018-19(UP TO 30.11.2018)

Sl. No.	Region / State / Utility / Station	Installed Capacity (As on 30.11.2018) (MW)	Design Energy (MU)	Actual Generation (MU)		
				2015-16	2016-17	2017-18
	NORTHERN REGION					
	HIMACHAL PRADESH					
	CENTRAL SECTOR					
	BBMB					
1	Bhakra L	594	3924	5893	5168	5134
2	Bhakra R	785				
3	Dehar	990	3110	3339	3185	3086
4	Pong	396	1123	1735	1370	1642
	Total BBMB-HP	2765	8157	10967	9723	9862
	NHPC					
5	BairaSiul	180	779	746	669	642
6	Chamera-I	540	1665	2624	2224	2344
7	Chamera-II	300	1500	1524	1444	1487
8	Chamera-III	231	1108	1044	917	1068
9	Parbati III	520	1977	643	682	711
	Total NHPC -HP	1771	7029	6580	5937	6252
	SJVN					
10	NapthaJhakri	1500	6612	7314	7051	7208
11	Rampur	412	1878	1983	1960	2015
	Total SJVN	1912	8490	9297	9011	9223
	NTPC					
12	Kol Dam	800	3055	2309	3225	3314
	Total NTPC	800	3055	2309	3225	3314
	Total Central-HP	7248	26731	29152	27896	28650
	STATE SECTOR					
	HPPCL					
13	Integrated Kashang I	195	246		56	197
14	Sainj	100	323			135
	Total HPPCL	295	569		56	332
	HPSEB LTD					
15	Bassi	66	347	316	298	315
16	Giri Bata	60	240	189	141	170
17	Larji	126	587	657	612	612
18	Sanjay	120	518	0	187	493
	Total HPSEB LTD	372	1692	1162	1237	1591
	PSPCL					
19	Shanan	110	585	533	473	509
	Total PSPCL-HP	110	585	533	473	509
	Total State Sector-HP	777	2846	1694	1766	2432
	PRIVATE					
	AllainDuhangan Power Power Ltd.					
20	AllainDuhangan	192	678	725	679	683
	Everest Power Private Ltd.					
21	Malana-II	100	403	354	367	369
	JSW ENERGY					
22	Baspa-II	300	1213	1305	1343	1337
23	KarchamWangtoo	1000	4131	4726	4372	4570
	Total HBPCL	1300	5344	6031	5715	5907
	GBHPPL					

24	Budhil	70	292	288	261	318
	IA Energy Pvt. Ltd.(IAEPL)					
25	Chanju I	36	158		11	79
	Malana Power Company Ltd.(MPCL)					
26	Malana	86	371	342	354	346
	Total Private-HP	1784	7246	7740	7387	7702
	Total H.P.	9809	36822	38587	37050	38783
	JAMMU & KASHMIR					
	CENTRAL SECTOR					
	NHPC					
27	Chutak	44	213	37	44	46
28	Dulhasti	390	1907	2361	2280	2344
29	NimooBazgo	45	239	91	95	99
30	Salal-I & II	690	3082	3591	3423	3247
31	Sewa-II	120	534	597	471	506
32	Uri -I	480	2587	3283	2803	2350
33	Uri -II	240	1124	1196	1472	1207
34	Kishenganga	330	1706			2
	Total NHPC -J&K	2339	11392	11156	10588	9801
	Total Central Sector - J&K	2339	11392	11156	10588	9801
	STATE SECTOR					
	JKSPDC					
35	Baglihar	450	2643	3000	2185	2507
36	Baglihar II	450	1302	56	1759	1822
37	Lower Jhelum	105	533	666	483	481
38	Upper Sindh II	105	355	258	363	327
	Total JKSPDC	1110	4833	3980	4790	5137
	Total State Sector-J&K	1110	4833	3980	4790	5137
	Total Jammu & Kashmir	3449	16225	15136	15378	14938
	PUNJAB					
	CENTRAL SECTOR					
	BBMB					
39	Ganguwal	78	1358	852	847	494
40	Kotla	78				508
	Total BBMB-Punjab	155	1358	852	847	1002
	STATE SECTOR					
	PSPCL					
41	A.P.Sahib I	67	909	669	674	648
42	A.P.Sahib II	67				
43	Mukerian I	45	1206	1169	1084	1271
44	Mukerian II	45				
45	Mukerian III	58.50				
46	Mukerian IV	58.50				
47	RanjitSagar	600	1507	1957	1306	1803
	Total PSPCL	941	3622	3795	3063	3722
	Total State Sector-Punjab	941	3622	3795	3063	3722
	Total Punjab	1096	4980	4648	3911	4724
	RAJASTHAN					
	STATE SECTOR					
	RRVUNL					
48	JawaharSagar	99	298	349	308	261
49	Mahi Bajaj I	50	289	166	210	180
50	Mahi Bajaj II	90				
51	R.P. Sagar	172	459	518	449	378
	Total RRVUNL	411	1046	1034	966	820
	Total State sector-Rajasthan	411	1046	1034	966	820
	Total Rajasthan	411	1046	1034	966	820
	UTTAR PRADESH					
	STATE SECTOR					
	UPJVNL					
52	Khara	72	385	321	269	259

53	Matatilla	31	123	79	123	94
54	Obra	99	279	160	217	300
55	Rihand	300	920	375	567	834
	Total UPJVNL	502	1707	935	1176	1487
	Total State Sector-UP	502	1707	935	1176	1487
	Total Uttar Pradesh	502	1707	935	1176	1487
	UTTARAKHAND					
	CENTRAL SECTOR					
	NHPC					
56	Dhauliganga	280	1135	1090	956	1153
57	Tanakpur	94	452	452	430	460
	Total NHPC-UK	374	1587	1542	1386	1613
	THDC LTD					
58	Tehri	1000	2797	3101	3146	3081
59	Koteshwar	400	1155	1248	1225	1220
	Total THDC LTD	1400	3952	4349	4371	4301
	Total Central Sector - UK	1774	5539	5891	5757	5914
	STATE SECTOR					
	UJVNL					
60	Chibro (Y.St.II)	240	750	814	714	784
61	Chilla	144	725	754	769	812
62	Dhakrani (Y.St.I)	34	169	137	120	130
63	Dhalipur (Y.St.I)	51	192	205	180	187
64	Khatima	41	208	120	180	213
65	Khodri (Y.St.II)	120	345	376	333	356
66	Kulhal (Y.St.IV)	30	164	139	122	124
67	ManeriBhali-I	90	395	487	349	395
68	ManeriBhali-II	304	1566	1229	1252	1277
69	Ram Ganga	198	334	503	181	251
	Total UJVNL	1252	4848	4763	4201	4526
	Total State Sector-Uttarakhand	1252	4848	4763	4201	4526
	PRIVATE SECTOR					
	AHPC LTD					
70	Srinagar	330	1397	901	1281	1383
	Jaiprakash Power Venture Ltd.					
71	Vishnu Prayag	400	1774	1211	2042	2161
	Total Private Sector - UK	730	3171	2112	3323	3543
	Total Uttarakhand	3756	13558	12766	13282	13984
	Total N. REGION	19023	74338	73105	71761	74735
	WESTERN REGION					
	CHHATISGARH					
	STATE SECTOR					
	CSPGC					
72	HasdeoBango	120	245	323	154	178
	Total CSPGC	120	245	323	154	178
	Total State Sector-Chhatisgarh	120	245	323	154	178
	Total Chhatisgarh	120	245	323	154	178
	GUJARAT					
	STATE SECTOR					
	GSECL					
73	Kadana PSS	240	518	290	339	309
74	Ukai	300	1080	492	396	304
	Total GSECL	540	1598	781	735	612
	SSNNL					
75	SardarSarovar CHPH	250	213	705	876	563
76	SardarSarovar RBPH	1200	3635	1466	2333	377
	Total SSNNL	1450	3848	2170	3209	939
	Total State Sector -Gujarat	1990	5446	2952	3944	1552
	Total Gujarat	1990	5446	2952	3944	1552
	MADHYA PRADESH					
	CENTRAL					
	NHDC					
77	Indira Sagar	1000	1980	1974	3321	882

78	Omkareshwar	520	1167	955	1428	444
	Total NHDC	1520	3147	2929	4748	1325
	Total Central Sector-MP					
	STATE SECTOR					
	MPPGCL					
79	Bansagar Tons-I	315	900	574	1239	545
80	Bansagar Tons-II	30	113	107	110	56
81	Bansagar Tons-III	60	143	40	53	69
82	Bargi	90	508	328	445	159
83	Gandhi Sagar	115	420	383	351	351
84	Madhikheda	60	74	92	147	23
85	Rajghat	45	88	37	62	58
	Total MPPGPCL	715	2246	1562	2408	1261
	Total State-MP	715	2246	1562	2408	1261
	Total M.P.	2235	5393	4491	7157	2587
	MAHARASHTRA					
	STATE SECTOR					
	MAHAGENCO					
86	Bhira Tail Race	80	75	74	102	97
87	Ghatghar PSS	250	146	302	384	153
88	Koyna DPH	36	410	136	156	135
89	KoynaSt.I&II	600	3030	2840	3150	1051
90	KoynaSt.III	320				499
91	Koyna IV	1000				945
92	Tillari	60	133	44	106	58
93	Vaitarna	60	144	123	154	205
	Total MAHAGENCO	2406	3938	3519	4051	3143
	MPPGPCL					
94	Pench	160	315	379	360	160
	Total MPPGPCL-Maha.	160	315	379	360	160
	Total State Sector-Maha.	2566	4253	3898	4411	3303
	PRIVATE SECTOR					
	Dodson-Lindblom Hydro Power Pvt. Ltd. (DLHPPL)					
95	Bhandardhara - II	34	50	83	47	43
	Total DLHP	34	50	83	47	43
	Tata Power Company Ltd.					
96	Bhira	150	775	640	952	341
97	Bhira PSS	150				551
98	Bhivpuri	75	220	197	207	307
99	Khopoli	72	225	261	307	316
	Total TPCL	447	1220	1098	1465	1516
	Total Private Sector-Maha.	481	1270	1181	1513	1558
	Total Maharashtra	3047	5523	5079	5924	4861
	Total Western	7392	16607	12845	17178	9178
	SOUTHERN REGION					
	ANDHRA PRADESH					
	STATE SECTOR					
	APGENCO					
100	N.J.Sagar TPD	50	177		7	42
101	N.J.Sagar RBC	90	156	0	4	60
102	Srisailam RB	770	2900	206	641	575
103	Upper sileru I & II	240	529	465	340	482
104	Lower Sileru	460	1070	1233	832	1110
	Total APGENCO	1610	4832	1904	1824	2269
	Total State Sector-AP	1610	4832	1904	1824	2269
	Total Andhra Pradesh	1610	4832	1904	1824	2269
	KARNATAKA					
	STATE SECTOR					
	KPCL					
105	Almatti Dam	290	483	145	404	442
106	Bhadra	26	123	40	27	16
107	Gerusoppa	240	622	303	277	281
108	Ghatprabha	32	131	32	49	48

109	Jog	139	118	318	288	191
110	Kadra	150	570	220	176	193
111	Kalinadi	855	3385	1948	1345	1537
112	Supa DPH	100	542	325	239	291
113	Kodasali	120	512	203	154	171
114	Lingnamakki	55	254	119	106	126
115	Munirabad	28	66	62	31	51
116	Sharavathy	1035	4932	2665	2709	2722
117	Shivasamudram	42	183	216	145	177
118	Varahi	460	1060	752	741	762
	Total KPCL	3572	12981	7350	6691	7009
	APGENCO					
119	T.B.Dam	36	236	129	81	134
120	Hampi	36				
	Total APGENCO-Karnataka	72	236	129	81	134
	Total State Sector-Karnataka	3644	13217	7479	6772	7143
	Total Karnataka	3644	13217	7479	6772	7143
	KERALA					
	STATE SECTOR					
	KSEB Ltd.					
121	Idamalayar	75	380	273	172	256
122	Idukki	780	2398	2372	1380	1611
123	Kakkad	50	262	184	132	160
124	Kuttiadi	75	323	578	479	601
125	KuttiadiExtn.	50				
126	Kuttiady Additional Extn.	100				
127	Lower Periyar	180	493	511	307	508
128	Neriamangalam	45	237	351	197	311
129	Pallivasal	38	284	219	166	188
130	Panniar	30	158	174	62	129
131	Poringalkuthu	32	170	160	91	117
132	Sabarigiri	300	1338	1171	799	968
133	Sengulam	48	182	161	116	145
134	Sholayar	54	233	210	167	205
	Total KSEB LTD.	1857	6458	6364	4067	5199
	Total State Sector-Kerala	1857	6458	6364	4067	5199
	Total Kerala	1857	6458	6364	4067	5199
	TAMIL NADU					
	STATE SECTOR					
	TANGEDCO					
135	Aliyar	60	175	153	62	90
136	Bhawani K Barrage-III	30	90	157	21	0
137	Bhawani K Barrage-II	30	100	7	20	38
138	Bhawani K Barrage-I	30	80	6	17	17
139	Kadamparai PSS	400	77	413	289	384
140	Kodayar I	60	165	279	169	124
141	Kodayar II	40				
142	Kundah I	60	1387	1372	816	806
143	Kundah II	175				
144	Kundah III	180				
145	Kundah IV	100				
146	Kundah V	40				
147	Lower Mettur I	30	252	223	92	132
148	Lower Mettur II	30				
149	Lower Mettur III	30				
150	Lower Mettur IV	30				
151	Mettur Dam	50	541	341	125	52
152	Mettur Tunnel	200				163
153	Moyar	36	115	104	62	94
154	Papanasam	32	105	117	67	115
155	Parson's Valley	30	53	26	24	27
156	Periyar	161	409	505	94	287
157	Pykara	59	274	57	13	1

158	Pykara Ultimate	150	30	281	193	274
159	Sarkarpathy	30	162	79	63	85
160	Sholayar I	70	254	264	228	158
161	Suruliyar	35	79	93	43	71
	Total TANGEDCO	2178	4348	4474	2397	2920
	Total State Sector-TN	2178	4348	4474	2397	2920
	Total Tamilnadu	2178	4348	4474	2397	2920
	TELANGANA					
	STATE SECTOR					
	TSGENCO					
162	Lower Jurala	240	534	9	176	206
163	N.J.Sagar PSS	816	2237	88	186	184
164	N.J.Sagar LBC	60	104	0	0	13
165	Pochampad	36	147	0	75	36
166	PriyadarshniJurala	234	404	30	212	217
167	Pulichinthala	120	219	0	13	7
168	Srisailam LB	900	1400	155	617	829
	Total TSGENCO	2406	5046	282	1280	1492
	Total State Sector-Telangana	2406	5046	282	1280	1492
	Total Telangana	2406	5046	282	1280	1492
	Total Southern	11695	33901	20504	16341	19022
	EASTERN REGION					
	JHARKHAND					
	CENTRAL SECTOR					
	DVC					
169	Panchet	80	237	69	134	142
	Total DVC	80	237	69	134	142
	Total Central Sector-Jharkhand	80	237	69	134	142
	STATE SECTOR					
	JUUNL					
170	Subernarekha I	65	149	51	30	190
171	Subernarekha II	65				
	Total Jharkhand	130	149	51	30	190
	Total State Sector-Jharkhand	130	149	51	30	190
	Total Jharkhand	210	386	120	164	332
	ODISHA					
	STATE SECTOR					
	OHPC					
172	Balimela	510	1183	622	1001	1477
173	Hirakud I	348	1174	684	717	863
174	Hirakud II					
175	Rengali	250	525	599	554	763
176	Upper Indravati	600	1962	1760	1522	1746
177	Upper Kolab	320	832	767	619	707
	Total OHPC	2028	5676	4433	4413	5555
	APGENCO					
178	Machkund	115	670	477	700	468
	Total APGENCO-Odisha	115	670	477	700	468
	Total State Sector-Odisha	2142	6346	4910	5113	6023
	Total Odisha	2142	6346	4910	5113	6023
	SIKKIM					
	CENTRAL SECTOR					
	NHPC					
179	Rangit	60	339	345	347	346
180	Teesta-V	510	2573	2710	2773	2819
	Total NHPC	570	2911	3055	3121	3165
	Total Central Sector-Sikkim	570	2911	3055	3121	3165
	STATE SECTOR					
	TeestaUrja Ltd. (TUL)					
181	Teesta III	1200	5214		309	4429
	Total TUL	1200	5214	0	309	4429
	Total State Sector-Sikkim	1200	5214	0	309	4429
	PRIVATE SECTOR					
	DANS Energy Pvt. Ltd. (DEPL)					

182	Jorethang Loop	96	459	75	406	406
	Shiga Energy Pvt. Ltd.(SEPL)					
183	Tashiding	97	425			73
	Gati Infrastructure Pvt. Ltd. (GIPL)					
184	Chuzachen HEP	110	538	421	495	445
	Sneha Kinetic					
185	Dikchu	96	431			370
	Total Private-Sikkim	399	1853	496	900	1294
	Total Sikkim	2169	9978	3552	4330	8888
	WEST BENGAL					
	CENTRAL SECTOR					
	NHPC					
186	Teesta Low Dam-III	132	594	515	554	387
187	Teesta Low Dam-IV	160	720	19	603	495
	Total NHPC	292	1314	534	1156	882
	DVC					
188	Maithon	63	137	108	122	114
	Total DVC-WB	63	137	108	122	114
	Total Central Sector-WB	355	1451	641	1278	996
	STATE SECTOR					
	WBSEDCL					
189	Jaldhaka I	36	170	173	205	145
190	Purulia PSS	900	1235	1065	1107	1014
191	Rammam II	50	209	254	248	122
	Total WBSEDCL	986	1614	1492	1561	1282
	Total State Sector -WB	986	1614	1492	1561	1282
	Total West Bengal	1341	3064	2133	2839	2278
	Total Eastern	5862	19774	10715	12447	17522
	NORTH EASTERN REGION					
	ARUNACHAL PRADESH					
	CENTRAL SECTOR					
	NEEPCO					
192	Ranganadi	405	1510	1280	1249	1417
193	Pare	110	506			
	Total NEEPCO-Arunachal	515	2016	1280	1249	1417
	Total Central Sector-Arunachal	515	2016	1280	1249	1417
	Total Arunachal	515	2016	1280	1249	1417
	ASSAM					
	CENTRAL SECTOR					
	NEEPCO					
194	Kopili	200	1186	782	1088	1173
195	Khandong	50	364	175	197	261
	Total NEEPCO-Aassm	250	1550	957	1285	1434
	Total Central Sector-Assam	250	1550	957	1285	1434
	STATE SECTOR					
	APGCL					
196	KarbiLangpi	100	390	409	397	485
	Total APGCL	100	390	409	397	485
	Total State Sector-Assam	100	390	409	397	485
	Total Assam	350	1940	1366	1682	1919
	NAGALAND					
	CENTRAL SECTOR					
	NEEPCO					
197	Doyang	75	227	163	259	274
	Total NEEPCO-Nagaland	75	227	163	259	274
	Total Central Sector-Nagaland	75	227	163	259	274
	Total Nagaland	75	227	163	259	274
	MANIPUR					
	CENTRAL SECTOR					
	NHPC					

198	Loktak (Manipur)	105	448	537	741	838
	Total NHPC-Manipur	105	448	537	741	838
	Total Central Sector-Manipur	105	448	537	741	838
	Total Manipur	105	448	537	741	838
	MEGHALAYA					
	STATE SECTOR					
	MePGCL					
199	Kyrdemkulai	60	118	118	65	132
200	Myntdu	126	128	444	392	502
201	New Umtru	40	235			160
202	UmiumSt.I	36	324	114	97	129
203	UmiumSt.IV	60	373	185	166	217
	Total MePGCL	322	1178	861	720	1140
	Total State Sector-Meghalaya	322	1178	861	720	1140
	Total Meghalaya	322	1178	861	720	1140
	MIZORAM					
	CENTRAL SECTOR					
204	Tuirial	60	251			78
	Total NEEPCO-Mizoram	60	251	0	0	78
	Total Central Sector-Mizoram	60	251	0	0	78
	Total Mizoram	60	251	0	0	78
	Total N.Eastern	1427	6060	4207	4651	5666
	Total All India	45399	150681	121377	122378	126123

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ANNEX-II

ANNEX REFERRED TO IN REPLY TO PARTS (b) TO (e) OF UNSTARRED QUESTION NO. 1669 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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The state-wise details of the identified potential in North Eastern States

Region/ State	Identified Capacity (MW)		Capacity	Developed
	Total	Above 25 MW	(MW)	%
North Eastern States				
Meghalaya	2394	2298	322	14.01
Tripura	15	0	0	0.00
Manipur	1784	1761	105	5.96
Assam	680	650	350	53.84
Nagaland	1574	1452	75	5.17
Arunachal Pradesh	50328	50064	515	1.02
Mizoram	2196	2131	60	2.81
Sub Total (NER)	58971	58356	1427	2.44

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ANNEX-III

ANNEX REFERRED TO IN REPLY TO PARTS (b) TO (e) OF UNSTARRED QUESTION NO. 1669 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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DPR concurred by CEA & yet to be taken up for construction and DPR under Examination (Benefits for the period 2022-2029)

S. No.	Name of Project	State	I.C. (MW)	No. of Units x MW	Benefits during 2022-2027 (MW)	Remarks
	DPR concurred by CEA and yet to be taken up for construction					
	2022-23					
1	Nafra	Arunachal Pradesh	120	2x60	120	TEC held on: 11.02.11 Env.Clearance: 19.08.13 FC-I: 02.04.12 & FC-II: 19.11.12 PPA yet to be signed. Thereafter Financial agreement to be made to resume works.
	Sub Total (2022-23)		120		120	
	2023-24					
	DPR concurred by CEA and yet to be taken up for construction					
2	Tagurshit	Arunachal Pradesh	74	3x24.67	74	TEC held on: 21.10.16 Env.Clearance: recommended by EAC in Oct, 2016. Letter will be issued after FC-I. FC-I & FC-II yet to be obtained.
3	Heo	Arunachal Pradesh	240	3x80	240	TEC held on: 28.07.15 Env.Clearance: 10.11.15 FC-I: 27.10.15 FC-II yet to be obtained. Infrastructure to be developed by State Govt./ BRO.
4	Tato-I	Arunachal Pradesh	186	3x62	186	TEC held on: 28.10.15 Env.Clearance: 10.11.15 FC-I: 27.10.15 FC-II yet to be obtained. Infrastructure to be developed by State Govt./ BRO.
5	Lower Kopilli	Assam	120	2x55+1x5+2 x2.5	120	TEC held on: 24.05.16 EC & FC yet to obtained by developer.
6	Dikhu	Nagaland	186	3X62	186	TEC held on: 31.03.14 EC yet to be obtained by developer. FC not applicable as forest land is not involved. Property survey is in progress.
7	Dibbin	Arunachal Pradesh	120	2x60	120	TEC held on: 04.12.09 Env.Clearance: 23.07.12 FC-I: 07.02.12 FC-II yet to be obtained. Developer to submit revised PPS based on BSR to CEA.
	Sub Total (2023-24)		926		926	

	2024-25					
	DPR concurred by CEA and yet to be taken up for construction					
8	**Loktak Down Stream**	**Manipur**	**66**	**2x33**	**66**	**TEC held on: 05.05.17 Env. Clearance: 16.01.13 FC-I: 03.02.11 FC-II: 22.12.14 PIB proposal returned by MoP on 11.07.17 seeking firm commitment regarding grant from State Government.**
9	**Talong Londa**	**Arunachal Pradesh**	**225**	**3x75**	**225**	**TEC held on: 16.08.13 Env. Clearance: 07.08.15 FC-I&FC-II yet to be obtained. Pending with State Govt.**
	Sub total (2024-25)		**291**		**291**	
	2025-26					
	DPR concurred by CEA and yet to be taken up for construction					
10	**Kynshi-I**	**Meghalaya**	**270**	**2x135**	**270**	**TEC held on: 31.03.15 EC & FC yet to obtained by developer. Issue of funding for Flood Moderation component to be resolved.**
11	**Demwe Lower**	**Arunachal Pradesh**	**1750**	**5x342+1 x40**	**1750**	**TEC held on: 20.11.09 Env. Clearance: 12.02.10 As per NGT order dated 24.10.17, NBWL issue to be reconsidered by MoEF&CC.**
12	**Attunli**	**Arunachal Pradesh**	**680**	**4x170**	**680**	**TEC held on: 15.03.18 EC & FC yet to be obtained by developer.**
	Sub Total (yet to be taken up for construction)		**2700**		**2700**	
	DPRs under examination in CEA					
13	**Mawphu Stage-II**	**Meghalaya**	**85**	**2x42.50**	**85**	**DPR accepted for examination in the meeting held on 08.08.2017.**
	Sub Total (DPR under examination)		**85**		**85**	
	Sub total (2025-26)		**2785**		**2785**	
	2026-27					
	DPR concurred by CEA and yet to be taken up for construction					
14	**Tawang-I**	**Arunachal Pradesh**	**600**	**3x200**	**600**	**TEC held on: 10.10.11 Env. Clearance: 10.06.11 FC-I&FC-II yet to be obtained. Land acquisition in process. Local resident are not cooperating.**
	Sub total (2026-27)		**600**		**600**	
	2027-28					
	DPR concurred by CEA and yet to be taken up for construction					
15	**Hirong**	**Arunachal Pradesh**	**500**	**4x125**	**500**	**TEC held on: 10.04.13 EC & FC yet to be obtained by developer. Impacted by Siang Basin Report. Developer to submit revised PPS based on BSR to CEA.**

16	**Kalai-II**	**Arunachal Pradesh**	**1200**	**5x190+ 1x190+1x 60**	**1200**	**TEC held on: 27.03.15 Env. Clearance: 20.05.15 FC-I&FC-II yet to be obtained. Developer to submit revised PPS based on BSR to CEA.**
17	**Naying**	**Arunachal Pradesh**	**1000**	**4x250**	**1000**	**TEC held on: 11.09.13 EC & FC yet to be obtained by developer. Developer to submit revised PPS based on BSR to CEA. DISCOMs are reluctant to sign PPA.**
18	**Tawang-II**	**Arunachal Pradesh**	**800**	**4x200**	**800**	**TEC held on: 22.09.11 Env. Clearance: 10.06.11 FC-I: 8.01.14 FC-II yet to be obtained. Local resident are not cooperating.**
19	**Etalin**	**Arunachal Pradesh**	**3097**	**10x307+ 1x19.6+1 x7.4**	**3097**	**TEC held on: 12.07.2013 Env. Clearance: 11.07.14 FC-I & FC-II yet to be obtained. WII study is to be carried out.**
	Sub total (2027-28)		**6597**		**6597**	
	2028-29					
	DPR concurred by CEA and yet to be taken up for construction					
20	**Dibang**	**Arunachal Pradesh**	**2880**	**12x240**	**2880**	**TEC held on: 18.09.17 Env. Clearance: 19.05.2015 FC-I: 15.04.15 FC-II yet to be obtained. Land acquisition in process.**
21	**Lower Siang**	**Arunachal Pradesh**	**2700**	**9x300**	**2700**	**TEC held on: 16.02.10 EC & FC yet to be obtained by developer. Facing difficulties in conducting public hearing due to local protest.**
	Sub total (2028-29)		**5580**		**5580**	
	Total (2022-29)		**16899**		**16899**	

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ANNEX-IV

ANNEX REFERRED TO IN REPLY TO PARTS (b) TO (e) OF UNSTARRED QUESTION NO. 1669 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Steps taken by the Government to harness Hydro potential

1. **Hydro Power Policy- 2008 (as amended from time to time):**

   (i) **Transparent selection procedure/ criteria to be followed by the States for awarding sites to private developers.**

   (ii) **The dispensation regarding exemption from tariff based bidding, available to the Public Sector under the National Tariff Policy 2006, also extended to private sector hydroelectric projects up to January 2011 (since extended up to 15.08.2022 in Revised Tariff Policy, 2016).**

   (iii) **To enable the project developer (public as well as private sector hydro developers) to recover the costs incurred by him in obtaining the project site, the policy allows a special incentive to the developer by way of merchant sale of upto a maximum of 40% of the saleable energy.**

   (iv) **An additional 1% free power from the project (over and above 12% free power earmarked for the host State) would be provided and earmarked for a Local Area Development Fund, aimed at providing a regular stream of revenue for income generation and welfare schemes, creation of additional infrastructure and common facilities etc. on a sustained and continued basis over the life of the project.**

   (v) **Developer to provide 100 units of electricity per month to each Project Affected Family - in cash or kind or a combination of both for 10 years from the COD.**

   (vi) **Developer to assist in implementing rural electrification in the vicinity of the project area & contribute 10% share of the State Govt. under the RGGVY scheme.**

2. **Tariff Policy, 2016 (Portions relevant to Hydropower)**

   Intent of Government for promotion of HEP emphasized in the objective of the Policy - "To promote HEP generation including PSP to provide adequate peaking reserves, reliable grid operation and integration of variable RE sources".

   (i) **Hydropower to be excluded for estimating Solar Purchase Obligation.**

   (ii) **Certainty of long term PPA for min. 60% of capacity, balance through merchant sale - Provision for extension of PPA beyond 35 years for a further period of 15 years.**

   (iii) **Enabling provision for suitable regulatory framework incentivizing the developers of HEPs for using long term financial instruments - in order to reduce tariff burden in the initial years.**

   (iv) **Depreciation – Developer shall have the option of charging lower rate of depreciation vis-à-vis the ceiling determined by CERC.**

   (v) **Exemption from competitive bidding extended up to 2022.**

3. **Other measures and steps taken to harness potential are detailed as follows:**

   (i) **Time bound appraisal norms have been evolved for examination of DPRs in CEA. Appraisal of DPRs by respective appraising groups including convening of Concurrence/ Appraisal meeting by Secretary, CEA shall be completed in a period of 150 working days**

   (ii) **Central Electricity Authority (CEA) is monitoring the progress of the under construction hydro projects regularly through frequent site visits, interaction with the developers and critical study of monthly progress reports.**

   (iii) **Regular review meetings are taken by Ministry of Power/ CEA with equipment manufacturers, State Utilities/ CPSUs/ Project developers, etc. to sort out the critical issues on Quarterly Basis.**

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1677
ANSWERED ON 20.12.2018

POWER GENERATION

1677. SHRI ANTO ANTONY:

Will the Minister of POWER be pleased to state:

(a) whether the Government has any statistics regarding the production of electricity in the country;

(b) if so, the details of production of electricity during the last 10 years, year-wise;

(c) whether the Government is planning to regulate/fix the price of electricity across the country;

(d) if so, the details and the steps taken by the Government in this regard;

(e) whether the Government has any statistics regarding number of thermal/ hydro/atomic power generation projects sanctioned and commissioned during the last six years;

(f) if so, the details of such projects and the total production of power during that period;

(g) whether the Government is producing excess electricity and exporting power; and

(h) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : The details of production of electricity during the last 10 years & the current year (Up to November 2018) are given at Annexure-I.

(c) & (d) : As per the Electricity Act 2003, the Appropriate Electricity Regulatory Commission (i) adopts the tariff discovered through competitive bid under section 63 of the Electricity Act, 2003 and (ii) under section 62 determines the tariff for supply of electricity by generating company to distribution licensee, transmission of electricity, wheeling of electricity and retail sale of electricity. As per Section 61 of the Act, the Appropriate Commission specifies the terms and conditions for the determination of tariff as per the guiding principles.

.....2.

Under Section 3 of the Act, the Government has notified the Tariff Policy from time to time, with the broad objectives to ensure availability of electricity to consumers at reasonable and competitive rates; ensure competition and financial viability of the sector and attract investments.

(e) & (f) : The details of thermal/hydro/atomic power generation projects of 25 MW and above capacity commissioned during the last six years and current year (Up to November 2018) and their generation during the same period is enclosed as Annexure-II.

(g) & (h) : Yes, Madam, at present the country is net exporter of electricity. The details of electricity exported to the neighbouring countries for the last three years and the current year are given at Annexure-III.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1677 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Generation Performance over the years

Year	Generation from Conventional Sources	Generation from Renewable Sources	Total Generation (Conv. + RE)
	(BU)	(BU)	(BU)
2008-09	723.794	27.860	751.654
2009-10	768.429	36.947	805.376
2010-11	811.143	39.245	850.387
2011-12	876.887	51.226	928.113
2012-13	912.057	57.449	969.506
2013-14	967.150	53.050	1,020.200
2014-15	1,048.673	61.719	1,110.392
2015-16	1,107.822	65.781	1,173.603
2016-17	1,160.141	81.548	1,241.689
2017-18	1,206.306	101.839	1,308.146
2018-19 *	849.202 #	89.149 #	938.352
2017-18 *	809.618	70.022	879.640

* Upto November # Provisional

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PARTS (e) & (f) OF UNSTARRED QUESTION NO. 1677 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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DETAILS OF GENERATION OF PROJECTS COMMISSIONED DURING LAST 6 YEARS & CURRENT YEAR (UPTO NOV. 2018)

Fuel	State	Organisa-tion	Name of Project	Unit No	Capacity (MW)	GENERATION (MU)						
						2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	*2018-19 (UPTO NOV.)
Coal	Andhra Pradesh	APGENCO	RAYALASEEMA TPS	6	600	-	-	-	0	0	123.09	346.3
		APPDCL	DAMODARAM SANJEEVAIAH TPS	1	800	-	0	811.88	2948.11	4276.02	2540.19	2183.23
		APPDCL	DAMODARAM SANJEEVAIAH TPS	2	800	-	0	270.32	2065.27	4528.63	2399.73	2677.06
		HNPC	VIZAG TPP	1	520	-	0	0	463.75	1921.43	1874.04	235.42
		HNPC	VIZAG TPP	2	520	-	0	0	0.96	1361.1	1452.1	346.85
		MEL	THAMMINAPATNAM TPS	1	150	382.55	709.1	830.65	882.96	642.68	185.84	20.35
		MEL	THAMMINAPATNAM TPS	2	150	2.09	736.16	721.81	816.13	730.95	401.46	16.24
		SEIL	PAINAMPURAM TPP	1	660	-	0	5.6	4233.49	4949.7	4935.46	2721.99
		SEIL	PAINAMPURAM TPP	2	660	-	-	0	2655.54	4109.7	4898.12	3535.44
		SEPL	SIMHAPURI TPS	2	150	685.73	1084.99	1112.91	1029.52	262.55	0	21.73
		SEPL	SIMHAPURI TPS	3	150	0	128.31	1046.5	1108.5	444.1	5.82	77.73
		SEPL	SIMHAPURI TPS	4	150	-	-	0	1132.08	478.85	19.2	0
		SGPL	SGPL TPP	1	660	-	-	-	0	1370.47	4522.72	3233.06
		SGPL	SGPL TPP	2	660	-	-	-	0	288.13	4447.87	3344.91
	Assam	NTPC	BONGAIGAON TPP	1	250	-	-	0	117.12	1656.46	1037.35	989.77
		NTPC	BONGAIGAON TPP	2	250	-	-	-	0	23.81	694.82	895.56
	Bihar	BRBCL	NABI NAGAR TPP	1	250	-	0	0	0.13	0	892.68	972.58
		BRBCL	NABI NAGAR TPP	2	250	-	-	-	0	0	168.26	404.11
		BSEB	BARAUNI TPS	8	250	-	-	0	0	0	0	0
		BSEB	BARAUNI TPS	9	250	-	-	-	0	0	0.04	0
		K.B.U.N.L	MUZAFFARPUR TPS	3	195	-	0	0.02	2.88	41.02	489.03	789.59
		K.B.U.N.L	MUZAFFARPUR TPS	4	195	-	-	0	0	0	512.64	686.97
		NTPC	BARH II	4	660	-	5.21	1757.34	3918.34	3720.22	4948.61	3335.86
		NTPC	BARH II	5	660	-	0	0.71	851.54	3921.79	4323.74	3261.18
	Chhattisgarh	ACB	CHAKABURA TPP	2	30	-	3.76	223.09	241.03	242.94	224.68	161.74
		ACB	KASAIPALLI TPP	2	135	584.48	925.76	944.66	991.79	1093.12	953.72	744.47
		ACB	SWASTIK KORBA TPP	1	25	-	0	0	0	0	0	0
		BALCO	BALCO TPS	1	300	0	0	0	1521.34	1573.76	1394.77	809.72
		BALCO	BALCO TPS	2	300	-	-	0	59.63	1619.62	918.3	923.89
		CSPGCL	KORBA-WEST TPS	5	500	0.63	1752.76	3509.67	3209.36	3302.31	3986.08	2637.83
		CSPGCL	MARWA TPS	1	500	0	0	0	10.69	293.38	2739.97	2368.73
		CSPGCL	MARWA TPS	2	500	0	0	0	0	2261.29	2980.03	2433.36
		DBPCL	BARADARHA TPS	1	600	0	3.25	290.71	2384.6	3689.74	3218.18	2370.12
		DBPCL	BARADARHA TPS	2	600	-	0	1.65	92.52	3498.65	3318.63	2279.2
		GCEL	RAIKHEDA TPP	1	685	-	-	21.65	701.94	577.08	368.38	2105.75
		GCEL	RAIKHEDA TPP	2	685	-	-	0	88.29	186.26	999.54	29.58
		JPL	TAMNAR TPP	1	600	-	101.67	1160.29	2097.01	1782.02	2041.1	935.44
		JPL	TAMNAR TPP	2	600	-	4.96	1243.62	2242.11	2432.83	3715.25	1981.75
		JPL	TAMNAR TPP	3	600	-	-	0	66.36	478.68	394.53	1210.61
		JPL	TAMNAR TPP	4	600	-	-	5.88	0	104.17	533.41	433.26
		KWPCL	AVANTHA BHANDAR	1	600	0	0	0	1054.81	2819.44	572.13	0
		MCCPL	BANDAKHAR TPP	1	300	-	0	0	216.22	1405.4	2223.84	1509.58
		NTPC	LARA TPP	1	800	-	-	-	0	0	0	45.3
		NTPC	SIPAT STPS	3	660	2922.59	4283.64	5237.82	4693.68	5315.46	4703.77	3775.93
		RKMPPL	UCHPINDA TPP	1	360	-	0	0	87.7	117.82	1266.54	802.76
		RKMPPL	UCHPINDA TPP	2	360	-	-	0	35.34	19.77	121.56	624.86
		RKMPPL	UCHPINDA TPP	3	360	-	-	-	0	0	50.68	0
		SCPL	RATIJA TPS	1	50	24.13	225.91	268.94	272.67	316.01	320.61	275.9
		SCPL	RATIJA TPS	2	50	-	-	-	-	116.02	422.45	267.18
		SKS	BINJKOTE TPP	1	300	-	0	0	0	0	673.97	537.39
		SKS	BINJKOTE TPP	2	300	-	-	-	0	0	0	431.95
		TRNE	NAWAPARA TPP	1	300	-	0	0	0	714.27	1389.86	1267.94
		TRNE	NAWAPARA TPP	2	300	-	0	0	0	0	1351.27	888.85
		VVL	SALORA TPP	1	135	0	0	137.12	0	0	0	0
		WPCL	AKALTARA TPS	2	600	-	0	0	0	0	68.8	2308.66
		WPCL	AKALTARA TPS	3	600	-	1844.14	2900.12	3473.3	3562.2	2629.77	638.57
		WPCL	AKALTARA TPS	4	600	-	-	404.91	2894.36	3170.29	3108.41	2644.15
	Gujarat	CGPL	MUNDRA UMTPP	2	800	3688.03	4789.78	5488.22	4983.93	6392.08	6425.73	3233.43
		CGPL	MUNDRA UMTPP	3	800	2274.15	4859.37	5475.04	5146.76	5816.62	5615.32	3727.92
		CGPL	MUNDRA UMTPP	4	800	1119.51	4639	5061.22	4621.27	5982.84	5307.99	4261.59
		CGPL	MUNDRA UMTPP	5	800	163.46	4872.61	5725.68	5750.24	4118.76	5095.07	1257.47
		EPGL	SALAYA TPP	2	600	1565.92	2885.28	3294.73	1945.37	2358.8	895.74	0
		GSECL	SIKKA REP. TPS	3	250	-	0	3.07	699.13	865.44	1383	827.22
		GSECL	SIKKA REP. TPS	4	250	-	-	-	140.06	1186.2	1294.54	1055.6
		GSECL	UKAI TPS	6	500	5.5	1425.72	2672.21	2452.28	3021.59	2988.42	1821.99
	Haryana	JhPL(HR)	MAHATMA GANDHI TPS	2	660	1223.72	2988.74	3412.19	2566.06	1406.19	3526.92	2233.13
		NTPC	INDIRA GANDHI STPP	3	500	125.91	1499.07	1936.77	2411.35	1829	2699.88	1968.5
	Jharkhand	ADHUNIK	MAHADEV PRASAD STPP	1	270	341.98	1368.2	1226.98	1669.18	1578.06	2106.15	985.08
		ADHUNIK	MAHADEV PRASAD STPP	2	270	0	1158.59	985.6	1256.72	1679.41	803.77	1103.03
		DVC	BOKARO TPS `A` EXP	1	500	-	-	0	0.3	208	2924.25	2042.85
		DVC	KODARMA TPP	2	500	0.73	189.67	1433.23	3326.82	2928.05	3326.25	1588.87
	Karnataka	KPCL	BELLARY TPS	3	700	-	-	0	24.57	513.85	826.89	337.57
		KPCL	YERMARUS TPP	1	800	-	-	0	1.05	232.8	890.25	68.18
		KPCL	YERMARUS TPP	2	800	-	-	0	0	13.74	107.2	722.75
		NTPC	KUDGI STPP	1	800	-	-	-	0	14.95	3007.62	1661.91
		NTPC	KUDGI STPP	2	800	-	-	-	0	10.54	931.31	1428.98
		NTPC	KUDGI STPP	3	800	-	-	-	0	0	6.26	404.65

	Madhya Pradesh	BLAPPL	NIWARI TPP	1	45	-	117.48	337.16	141.96	237.26	87.88	76.15
		ESSARPMPL	MAHAN TPP	1	600	23.5	809.29	450.69	0	2629.2	2918.23	2104.39
		ESSARPMPL	MAHAN TPP	2	600	-	-	-	0	0	0	220.05
		JHAPL	SEIONI TPP	1	600	-	0	0	3.96	311.25	1666.87	1526.83
		JPPVL	BINA TPS	1	250	466.98	741.92	1300.23	624.85	317.99	1362.34	789.49
		JPPVL	BINA TPS	2	250	7.06	820.69	1144.68	682.92	494.86	1102.94	881.3
		JPPVL	NIGRI TPP	1	660	-	0	1688.79	2894.24	3714.23	3781.1	2959.63
		JPPVL	NIGRI TPP	2	660	-	-	69.39	2451.94	3552.73	3907.83	2431.97
		MBPMPL	ANUPPUR TPP	1	600	-	-	0	2873.04	3634.09	3262.02	2234.61
		MBPMPL	ANUPPUR TPP	2	600	-	-	0	17.68	126.07	2963.03	2342.37
		MPPGCL	SATPURA TPS	10	250	1.9	562.38	963.58	1480.73	1036.08	1886.09	1080.76
		MPPGCL	SATPURA TPS	11	250	0	172.58	1156.38	494.96	1327.82	1418.4	1299.74
		MPPGCL	SHREE SINGAJI TPP	1	600	0	341.47	1511.39	2097.33	1143.6	2341.56	2003.76
		MPPGCL	SHREE SINGAJI TPP	2	600	-	0	314.31	2153.15	1331.05	1612.53	1960.14
		MPPGCL	SHREE SINGAJI TPP	3	660	-	-	-	-	-	0	140.23
		NTPC	VINDHYACHAL STPS	11	500	128.48	3602.05	3506.15	3781.45	3439.39	3918.32	2879.2
		NTPC	VINDHYACHAL STPS	12	500	0.36	162.74	3536.59	3507.84	3661.2	3860.04	2563.76
		NTPC	VINDHYACHAL STPS	13	500	-	-	0	1475.49	3488.65	4122.34	2789.09
		SPL	SASAN UMTPP	1	660	0	0	4137.37	5210.81	4923.27	5491.04	3418.33
		SPL	SASAN UMTPP	2	660	0	497.58	3665.56	5172.72	4989.06	4941.77	3785.5
		SPL	SASAN UMTPP	3	660	0	2396.71	3630.86	4923.05	5045.81	5128.02	3752.73
		SPL	SASAN UMTPP	4	660	-	44.66	3878.66	5359.53	4889.52	5400.11	3025
		SPL	SASAN UMTPP	5	660	-	-	1770.47	5321.77	4917.6	5554.85	3831.23
		SPL	SASAN UMTPP	6	660	-	-	190.91	5274.46	4649.46	5276.73	3844.38
	Maharashtra	APL	TIRORA TPS	1	660	781.18	3862.35	3743.9	4155.82	2191.75	3701.57	2771.92
		APL	TIRORA TPS	2	660	131.59	3334.83	3820.66	4248.05	4365.72	2805.34	2836.1
		APL	TIRORA TPS	3	660	0	2994.83	3673.19	3993.75	4071.61	3567.99	2707.45
		APL	TIRORA TPS	4	660	-	121.12	3490.46	3454.19	3432.12	3456.91	2923.75
		APL	TIRORA TPS	5	660	-	-	1741.94	4227.89	3581.36	4064.43	2276.98
		DIPL	DHARIWAL TPP	1	300	0	189.16	301.76	0	0	258.43	894.65
		DIPL	DHARIWAL TPP	2	300	0	0	173.92	369.16	1541.71	2134.84	1464.86
		GEPL	GEPL TPP Ph-I	1	60	157.04	57.94	0	0	0	0	0
		GEPL	GEPL TPP Ph-I	2	60	226.25	55.9	0	0	0	0	0
		GMR ENERG	GMR WARORA TPS	1	300	120.53	1516.52	1760.15	2113.83	1802.32	2000.38	1305.82
		GMR ENERG	GMR WARORA TPS	2	300	0	686.38	1854.75	1892.95	1901.1	1745.72	1198.97
		IEPL	BELA TPS	1	270	5.5	25.15	0	0	0	80.51	149.37
		MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	8	500	0	0	0	196.55	2160.02	2798.31	1986.28
		MAHAGENCO	CHANDRAPUR(MAHARASHTRA) STPS	9	500	-	-	0	0	1147.47	3281.28	1852.57
		MAHAGENCO	KORADI TPS	8	660	-	0	0	1124.86	3219.57	3136.71	1440.75
		MAHAGENCO	KORADI TPS	9	660	-	0	0	71.5	1720.2	2644.16	1824.31
		MAHAGENCO	KORADI TPS	10	660	-	-	0	0	263.23	3152.86	1634.67
		MAHAGENCO	PARLI TPS	8	250	-	0	0	0	64.72	846.65	1017.62
		NTPC	MAUDA TPS	1	500	12.33	736.27	1221.2	1067.95	1936.47	2542.77	1799.02
		NTPC	MAUDA TPS	2	500	1.02	84.52	1089.71	803.82	1754.11	2370.35	1808.22
		NTPC	MAUDA TPS	3	660	-	-	-	3.89	612.33	1845.74	2198.74
		NTPC	MAUDA TPS	4	660	-	-	-	0	2.74	1212.28	2264.09
		NTPC	SOLAPUR STPS	1	660	-	-	-	0	0	1397.56	1783.68
		RATTANINDIA	AMARAVATI TPS	1	270	0.28	1141.75	1386.68	1489.75	390.45	1213.8	555.54
		RATTANINDIA	AMARAVATI TPS	2	270	0	25.04	699.85	1594.3	497.17	1125.88	997.73
		RATTANINDIA	AMARAVATI TPS	3	270	-	0	10.14	1278.42	280.16	865	671.23
		RATTANINDIA	AMARAVATI TPS	4	270	-	0	28.03	1183.68	464.44	916.6	514.76
		RATTANINDIA	AMARAVATI TPS	5	270	-	-	17.62	633.4	242.48	650.1	881.4
		RATTANINDIA	NASIK (P) TPS	1	270	-	-	-	-	-	-	-
		RATTANINDIA	NASIK (P) TPS	2	270	0	0	0	0	0.72	0	0
		RATTANINDIA	NASIK (P) TPS	3	270	-	0	0	0	0	0.5	0
		RATTANINDIA	NASIK (P) TPS	4	270	-	-	-	0	0	0.63	0
		RATTANINDIA	NASIK (P) TPS	5	270	-	-	-	-	-	0.56	0
		SPPL	SHIRPUR TPP	1	150	-	-	-	-	-	4.74	0
		VIP	BUTIBORI TPP	1	300	1.97	385.45	1973	1976.41	1747.85	1109.15	631.99
		VIP	BUTIBORI TPP	2	300	-	17.14	1671.48	2053.76	1994.67	2197.16	1215.01
	Odisha	GMR ENERG	KAMALANGA TPS	1	350	23.35	561.65	1974.98	2076.98	2237.19	1397.18	1461.25
		GMR ENERG	KAMALANGA TPS	2	350	0	697.53	1633.29	2086.72	2011.12	2290.42	1547.94
		GMR ENERG	KAMALANGA TPS	3	350	-	51.67	1230.5	2071.31	1684.48	1896.39	1604.23
		IBPIL	UTKAL TPP (IND BARATH)	1	350	0	0	0	21.58	0	0	0
		JITPL	DERANG TPP	1	600	0	0	348.22	3245.78	3570.87	1318.98	2207.62
		JITPL	DERANG TPP	2	600	-	-	167.23	2997.82	2944.43	2338.44	625.95
		SEL	STERLITE TPP @	4	600	904.91	1253.86	2520.67	2108.28	2167.76	0	0
	Punjab	GPGSL (GVK)	GOINDWAL SAHIB	1	270	0	0	0	36.98	85.78	1122.22	493.05
		GPGSL (GVK)	GOINDWAL SAHIB	2	270	0	0	0	17.41	138.13	418.78	883.73
		NPL	RAJPURA TPP	1	700	-	511.69	2978.91	3600.39	4522.54	4823.58	2919.02
		NPL	RAJPURA TPP	2	700	-	0	2748.4	4102.92	4919.22	4286.46	3324.34
		TSPL	TALWANDI SABO TPP	1	660	-	0	0	0	1527.35	2967.79	2573.02
		TSPL	TALWANDI SABO TPP	2	660	-	0	1522.7	2296.89	2350.06	2779	2284.37
		TSPL	TALWANDI SABO TPP	3	660	-	0	0	944.91	3201.43	2810.03	2389.84
	Rajasthan	APL	KAWAI TPS	1	660	-	2539.47	4322.27	4160.95	4186.1	2177.06	2716.91
		APL	KAWAI TPS	2	660	-	1174.06	3544.09	4523.87	4103.17	2890.09	1956.9
		RRVUNL	CHHABRA TPP	3	250	0	314.31	1347.36	1329.28	1679.5	1330.64	1299.86
		RRVUNL	CHHABRA TPP	4	250	0	0	409.12	1478.16	1741.32	1776.54	1099.76
		RRVUNL	CHHABRA TPP	5	660	-	-	-	-	0	1378.84	1681.72
		RRVUNL	KALISINDH TPS	1	600	0	0	1209.12	3546.02	3669.81	3402.3	2687.04
		RRVUNL	KALISINDH TPS	2	600	0	0	0	2436.74	2274.31	3288.88	85.11
	Tamil Nadu	CEPL	MUTHIARA TPP	1	600	-	-	1092.69	2324.45	2539.98	1242.1	716.22
		CEPL	MUTHIARA TPP	2	600	-	-	0	464.31	1209.12	2664.14	1334.41
		IBPIL	TUTICORIN (P) TPP	1	150	-	588.98	648.29	434.95	4.48	0	0
		IBPIL	TUTICORIN (P) TPP	2	150	-	27.79	779.88	365.45	19.14	0	0
		ITPCL	ITPCL TPP	1	600	-	-	-	1131.38	2744.03	3216.14	2016.77
		ITPCL	ITPCL TPP	2	600	-	-	-	0	2231.67	2508.15	1862.57
		NTECL	VALLUR TPP	2	500	2.39	1711.3	3015.4	2551.6	3407.75	3142.18	1377.77
		NTECL	VALLUR TPP	3	500	0	0.61	322.4	2315.3	2905.16	770.13	2074.42
		NTPL	TUTICORIN (JV) TPP	1	500	-	0	6.79	1904.33	3069.26	2634.96	2070.77
		NTPL	TUTICORIN (JV) TPP	2	500	-	0	0	1653.78	3182.78	2777.87	1836.29
		TANGEDCO	METTUR TPS-II	1	600	390.9	1981.18	2999.86	3925.86	3446.61	2450.86	1860.22
		TANGEDCO	NORTH CHENNAI TPS	4	600	0	777.67	1791.82	3514.92	3036.56	3373.37	2188.16
		TANGEDCO	NORTH CHENNAI TPS	5	600	21.25	1348.54	3793.86	2983.62	3345.29	2484.68	1965.12

	Telangana	SCCL	SINGARENI TPP	1	600	-	-	0	1.17	2503.57	4606.02	2749.49
		SCCL	SINGARENI TPP	2	600	-	-	-	0	1595.76	4969.14	2948.26
		TSGENCO	KAKATIYA TPS	2	600	-	-	0	427.48	3295.82	3899.85	3062.12
	Uttar Pradesh	LPGCL	LALITPUR TPS	1	660	-	-	0	27.76	1982.59	2668.52	1670.96
		LPGCL	LALITPUR TPS	2	660	-	-	0	0	1174.88	3086.56	1526.24
		LPGCL	LALITPUR TPS	3	660	-	-	-	0	796.04	2810.84	1947.12
		MUNPL	MEJA STPP	1	660	-	-	-	-	0	8.22	0
		NTPC	RIHAND STPS	5	500	955.71	3563.36	3308.43	3928.32	3546.12	4149.81	2199.25
		NTPC	RIHAND STPS	6	500	0	151.16	3486.2	2870.5	3979.35	3809.69	2802.61
		NTPC	UNCHAHAR TPS	6	500	-	-	-	-	0.45	365.34	0
		PPGCL (Jaypee)	PRAYAGRAJ TPP	1	660	-	0	0	234.78	2997.84	2545.82	2571.12
		PPGCL (Jaypee)	PRAYAGRAJ TPP	2	660	-	-	0	0	1470.64	2051.42	1683.21
		PPGCL (Jaypee)	PRAYAGRAJ TPP	3	660	-	-	-	0	0	1037.82	922.3
		UPRVUNL	ANPARA TPS	6	500	-	0	0	47.19	2261.25	3604.62	2670.32
		UPRVUNL	ANPARA TPS	7	500	-	0	0	126.08	1781.57	1833.93	2676.53
		UPRVUNL	HARDUAGANJ TPS	9	250	223.26	1362.08	1847.31	1704.67	1747.02	1810.83	1075.59
		UPRVUNL	PARICHHA TPS	5	250	1366.73	1747.04	1595.06	1840.1	1502.74	1536.76	1003.98
		UPRVUNL	PARICHHA TPS	6	250	59.76	1740.46	1880.54	1315.4	1543.2	1739.27	958.77
	West Bengal	DPL	D.P.L. TPS	8	250	-	0	351.65	783.8	1149.91	1005.39	1148.08
		DVC	RAGHUNATHPUR TPP	1	600	0	0	12.27	148.56	1059.75	1598.43	716.41
		DVC	RAGHUNATHPUR TPP	2	600	0	0	0	108.98	956.76	681.04	1120.88
		HEL	HALDIA TPP	1	300	-	0	265.3	2045.3	2027.66	2229.47	1687.47
		HEL	HALDIA TPP	2	300	-	0	90.93	1587.96	1987.83	2296.42	1595.41
		HMEL	Hiranmaye TPP	1	150	-	-	-	0	0	27.48	0
		HMEL	Hiranmaye TPP	2	150	-	-	-	-	0	0	0
		WBPDC	SAGARDIGHI TPS	3	500	-	-	0	0	1039.74	1943.09	1531.11
		WBPDC	SAGARDIGHI TPS	4	500	-	-	0	0	64.76	1404.7	663.21
Coal Total					93530.00	21125.34	90093.96	174779.96	263384.96	337445.39	396537.23	287894.06
Lignite	Gujarat	BECL	BHAVNAGAR CFBC TPP	1	250	-	-	0	0	52.22	461.45	214.9
		BECL	BHAVNAGAR CFBC TPP	2	250	-	-	-	0	3.25	18.7	19.72
	Rajasthan	RWPL (JSW)	JALIPA KAPURDI TPP	5	135	144.44	505.54	910.71	979.18	876.16	853.69	617.07
		RWPL (JSW)	JALIPA KAPURDI TPP	6	135	51.5	507.25	893.23	921.01	841.83	894.01	542.91
		RWPL (JSW)	JALIPA KAPURDI TPP	7	135	56.09	511.48	959.73	915.06	867.99	894.22	594.87
		RWPL (JSW)	JALIPA KAPURDI TPP	8	135	106.84	548.18	860.02	918.5	773.8	819.35	602.28
	Tamil Nadu	NEYVELI LIGNITE	NEYVELI TPS-II EXP	2	250	0	0	0	423.33	658.78	831.32	452.02
Lignite Total					1290.00	358.87	2072.45	3623.69	4157.08	4074.03	4772.74	3043.77
Gas	Andhra Pradesh	GREL	GREL CCPP (Rajahmundry)	1	384	-	-	-	589.64	468.19	0	0
		GREL	GREL CCPP (Rajahmundry)	2	384	-	-	-	0	0	0	0
		KONDAPALI	KONDAPALLI ST-3 CCPP	1	371	-	-	-	497.28	774.89	0	0
		KONDAPALI	KONDAPALLI ST-3 CCPP	2	371	-	-	-	118.27	491.22	0	0
	Assam	APGCL	LAKWA REPLACEMENT POWER PROJECT	1	9.965	-	-	-	-	-	-	19.33
		APGCL	LAKWA REPLACEMENT POWER PROJECT	2	9.965	-	-	-	-	-	-	8.38
		APGCL	LAKWA REPLACEMENT POWER PROJECT	3	9.965	-	-	-	-	-	-	17.82
		APGCL	LAKWA REPLACEMENT POWER PROJECT	4	9.965	-	-	-	-	-	-	18.39
		APGCL	LAKWA REPLACEMENT POWER PROJECT	5	9.965	-	-	-	-	-	-	17.89
		APGCL	LAKWA REPLACEMENT POWER PROJECT	6	9.965	-	-	-	-	-	-	17.12
		APGCL	LAKWA REPLACEMENT POWER PROJECT	7	9.965	-	-	-	-	-	-	16.47
		APGCL	NAMRUP CCPP	7	62.25	-	0	0	0	0	0	0
	Delhi	PPCL	PRAGATI CCGT-III	4	250	2.53	0	0.9	301.67	558.5	397.81	206.42
		PPCL	PRAGATI CCGT-III	5	250	0	0	623.81	444.93	232.33	794.77	502.43
		PPCL	PRAGATI CCGT-III	6	250	0	0	126.27	202.56	449.3	212.37	143.73
	Gujarat	GPPCL	PIPAVAV CCPP	1	351	0	0	0	0	215.41	168.06	404.01
		GPPCL	PIPAVAV CCPP	2	351	0	0	0	114.75	14.58	0	89.76
		GSECL	DHUVARAN CCPP	5	376.1	-	-	11.62	10.62	0	27.14	280.47
		TOR. POW. (UNOSUGEN)	DGEN MEGA CCPP	1	400	-	0	0	1048.11	0	0	0.08
		TOR. POW. (UNOSUGEN)	DGEN MEGA CCPP	2	400	-	0	0	750.06	0	0	0
		TOR. POW. (UNOSUGEN)	DGEN MEGA CCPP	3	400	-	0	0	933.14	1.02	0	0
		TOR. POW. (UNOSUGEN)	UNOSUGEN CCPP	1	382.5	144.84	3.14	0	876.14	0	0	0
	Maharashtra	PGPL	MANGAON CCPP	1	388	-	-	-	0	215.44	0	0
	Rajasthan	RRVUNL	RAMGARH CCPP	5	110	0	288.57	441.56	462.65	675.29	677.96	345.05
		RRVUNL	RAMGARH CCPP	6	50	0	0	136.95	179.27	276.87	272.68	146.5
	Tripura	NEEPCO.	AGARTALA GT	5	25.5	-	-	0	12.18	133.08	122.01	71.68
		NEEPCO.	AGARTALA GT	6	25.5	-	-	5.7	131.38	161.89	116.63	66.65
		NEEPCO.	MONARCHAK CCPP	1	65.4	-	0	0.7	127.06	158.09	422.03	302.17
		NEEPCO.	MONARCHAK CCPP	3	35.6	-	0	0	0	13.96	249.5	138.85
		ONGC	TRIPURA CCPP	1	363.3	28.39	996.55	2165	2141.07	2061.44	2000.71	1480.06
		ONGC	TRIPURA CCPP	2	363.3	0	0	304.44	1338.39	2111.63	2052.45	1535.99
		TSECL	ROKHIA GT	9	21	-	85.46	111.59	158.55	147.86	136.5	93.14
	Uttarakhand	GIPL	GAMA CCPP	1	225	-	-	-	0	492.43	560.66	265.65
		SrEPL	KASHIPUR CCPP	1	225	-	-	-	0	476.58	1062.33	533.05
Gas Total					6950.205	175.76	1373.72	3928.54	10437.72	10130.00	9273.61	6721.09
Hydro	Andhra Pradesh	APGENCO	NAGARJUN SGR TPD	1	25	0	0	0	0	7.35	42.13	35.44
		APGENCO	NAGARJUN SGR TPD	2	25	0	0	0	0	0	0	0

	Arunachal Pradesh	NEEPCO.	PARE	1	55	-	-	-	0	0	0	163.16
		NEEPCO.	PARE	2	55	-	-	-	0	0	0	153.39
	Himachal Pradesh	GBHPPL	BUDHIL HPS	1	35	91.35	110.81	113.43	127.47	114.21	160.27	138.99
		GBHPPL	BUDHIL HPS	2	35	65.44	110.36	122.4	160.38	147.04	157.36	124.45
		HPPCL	KASHANG INTEGRATED HEP	1	65	-	-	0	0	8.43	71.72	66.28
		HPPCL	KASHANG INTEGRATED HEP	2	65	-	-	-	-	44.88	71.98	37.19
		HPPCL	KASHANG INTEGRATED HEP	3	65	-	-	-	-	2.78	53.43	0
		HPPCL	SAINJ HPS	1	50	-	-	-	0	0	54.89	215.18
		HPPCL	SAINJ HPS	2	50	-	-	-	0	0	80.1	150.41
		IAEPL	CHANJU-I HPS	1	12	-	-	-	-	9.33	36.84	36.25
		IAEPL	CHANJU-I HPS	2	12	-	-	-	-	1.96	33.73	38.09
		IAEPL	CHANJU-I HPS	3	12	-	-	-	-	0	8.85	47.14
		NHPC	CHAMERA-III HPS	1	77	199.04	298.4	335.36	341.07	313.93	372.1	293.52
		NHPC	CHAMERA-III HPS	2	77	254.46	326.95	324.68	336.34	295.26	345.77	320.91
		NHPC	CHAMERA-III HPS	3	77	262.79	312.51	360.74	366.21	307.9	350.18	298.35
		NHPC	PARBATI-III HPS	1	130	0	2.88	278.14	0	51	171.86	81.13
		NHPC	PARBATI-III HPS	2	130	0	1.7	340.92	158.9	222.09	145.73	193.07
		NHPC	PARBATI-III HPS	3	130	0	0.2	10.52	214.25	106.12	180.69	92.92
		NHPC	PARBATI-III HPS	4	130	0	0	31.2	269.85	303.27	212.25	229.75
		NTPC	KOLDAM	1	200	-	-	0.12	559.63	849.52	840.13	646.2
		NTPC	KOLDAM	2	200	-	-	0.13	581.26	856.6	813.97	659.35
		NTPC	KOLDAM	3	200	-	-	0	565.45	808.3	824.51	661.12
		NTPC	KOLDAM	4	200	-	-	0	602.26	710.74	835.01	677.29
		SJVNL	RAMPUR HPS	1	68.67	0	0.01	345.83	294.33	353.75	371.21	301.97
		SJVNL	RAMPUR HPS	2	68.67	0	0.01	300.08	345.9	327.52	316.26	256.61
		SJVNL	RAMPUR HPS	3	68.67	0	0	129.9	313.36	315.31	308.29	240.09
		SJVNL	RAMPUR HPS	4	68.67	0	0	211.19	325.13	312.4	315.96	258.61
		SJVNL	RAMPUR HPS	5	68.67	0	0	289.48	334.64	311.76	307.14	231.21
		SJVNL	RAMPUR HPS	6	68.67	0	0	41.1	370.05	339.68	396.14	307.03
	Jammu & Kashmir	JKSPDC	BAGLIHAR II HPS	1	150	-	-	0	53.03	600.18	753.59	738.73
		JKSPDC	BAGLIHAR II HPS	2	150	-	-	0	2.57	568	507.81	675.58
		JKSPDC	BAGLIHAR II HPS	3	150	-	-	-	0	590.8	560.55	570.2
		NHPC	CHUTAK HPS	1	11	0.96	2.47	0	18.03	15.63	13.72	9.59
		NHPC	CHUTAK HPS	2	11	7.94	13.91	7.36	1.65	8.92	9.62	3.48
		NHPC	CHUTAK HPS	3	11	4.85	10.49	16.9	8.85	11.33	7.15	12.91
		NHPC	CHUTAK HPS	4	11	0.81	7.31	11.24	8.38	8.24	15.23	7.44
		NHPC	KISHANGANGA HPS	1	110	-	-	-	0	0	1.68	113.03
		NHPC	KISHANGANGA HPS	2	110	-	-	-	0	0	0	159.93
		NHPC	KISHANGANGA HPS	3	110	-	-	-	0	0	0	134.17
		NHPC	NIMMO BAZGO HPS	1	15	0	25.46	28.03	32.64	40.16	40.05	33.33
		NHPC	NIMMO BAZGO HPS	2	15	0	16.78	27.94	36.17	44.23	35	18.64
		NHPC	NIMMO BAZGO HPS	3	15	0	8.38	19.58	21.7	10.82	23.78	9.64
		NHPC	URI-II HPS	1	60	0	146.82	295.89	300.42	372.19	231.81	300.3
		NHPC	URI-II HPS	2	60	0	55.07	309.59	262.4	296.52	306.53	275.95
		NHPC	URI-II HPS	3	60	0	156.48	280.98	309.98	418.43	394.11	234.14
		NHPC	URI-II HPS	4	60	0	45.39	301.72	322.75	384.8	274.99	307.18
	Meghalaya	MeECL	MYNTDU(LESHKA) St-1 HPS	3	42	0	68.4	138.57	146.86	146.93	179.77	102.71
		MeECL	NEW UMTRU HPS	1	20	-	0	0	0	0	110.78	81.4
		MeECL	NEW UMTRU HPS	2	20	-	0	0	0	0	48.74	70.4
	Mizoram	NEEPCO.	TUIRIAL HPS	1	30	-	-	-	-	0	57.37	58.37
		NEEPCO.	TUIRIAL HPS	2	30	-	-	-	-	0	21	78.95
	Sikkim	DEPL	JORETHANG LOOP	1	48	-	0	0	36.21	197.51	207.62	184.76
		DEPL	JORETHANG LOOP	2	48	-	0	0	38.85	208.12	198.39	183.86
		GIPL	CHUZACHEN HPS #	1	55	0	146.47	210.28	201.99	245.88	222.69	198.09
		GIPL	CHUZACHEN HPS #	2	55	0	144.95	220.58	219.44	248.87	222.1	185.69
		SEPL	TASHIDING HPS	1	48.5	-	-	-	0	0	38.23	191.56
		SEPL	TASHIDING HPS	2	48.5	-	-	-	0	0	34.84	182.71
		SKPPPL	DIKCHU HPS	1	48	-	-	-	-	0	188.13	220.79
		SKPPPL	DIKCHU HPS	2	48	-	-	-	-	0	181.97	207.55
		TUL	TEESTA-III HPS	1	200	0	0	0	0	53	687.2	416.09
		TUL	TEESTA-III HPS	2	200	0	0	0	0	27.5	676.25	562.9
		TUL	TEESTA-III HPS	3	200	0	0	0	0	74.12	849.51	771.62
		TUL	TEESTA-III HPS	4	200	0	0	0	0	48.8	657.41	549.1
		TUL	TEESTA-III HPS	5	200	-	-	-	0	57.6	662.19	560.81
		TUL	TEESTA-III HPS	6	200	-	-	-	0	48.4	896.77	738.02
	Tamil Nadu	TANGEDCO	BHAWANI BARRAGE-II HPS	1	15	1.54	86.12	137.56	3.61	7.98	19.29	28.34
		TANGEDCO	BHAWANI BARRAGE-II HPS	2	15	0	0	0	3.42	11.85	18.33	27.93
		TANGEDCO	BHAWANI BARRAGE-III HPS	1	15	0	25.04	0	5.18	8.69	0	6.28
		TANGEDCO	BHAWANI BARRAGE-III HPS	2	15	0	0	0	0.5	8.78	0	10.97
	Telangana	TSGENCO	LOWER JURALA HPS	1	40	0	0	0	8.98	176.34	205.9	152.94
		TSGENCO	LOWER JURALA HPS	2	40	0	0	0	0	0	0	0
		TSGENCO	LOWER JURALA HPS	3	40	0	0	0	0	0	0	0
		TSGENCO	LOWER JURALA HPS	4	40	-	0	0	0	0	0	0
		TSGENCO	LOWER JURALA HPS	5	40	-	-	-	0	0	0	0
		TSGENCO	LOWER JURALA HPS	6	40	-	-	-	0	0	0	0
		TSGENCO	PULICHINTALA HPS	1	30	0	0	0	0	13	6.6	17.3
		TSGENCO	PULICHINTALA HPS	2	30	0	0	0	0	0	0	0
		TSGENCO	PULICHINTALA HPS	3	30	-	-	-	0	0	0	0
		TSGENCO	PULICHINTALA HPS	4	30	-	-	-	0	0	0	0
	Uttarakhand	AHPC (GVK)	SHRINAGAR HPS	1	82.5	0	0	0	245.64	343.48	424.85	313.02
		AHPC (GVK)	SHRINAGAR HPS	2	82.5	0	0	0	221.46	315.19	356.14	221.36
		AHPC (GVK)	SHRINAGAR HPS	3	82.5	0	0	0	239.88	314.38	240.46	332.21
		AHPC (GVK)	SHRINAGAR HPS	4	82.5	0	0	0	194.39	307.7	361.09	321.6

	West Bengal	NHPC	TEESTA LOW DAM-III HPS	1	33	0	47.99	99.89	120.63	100.86	65.37	110.63
		NHPC	TEESTA LOW DAM-III HPS	2	33	0	35.21	90.96	122.16	144.58	102.51	125.98
		NHPC	TEESTA LOW DAM-III HPS	3	33	0	70.5	95.33	131.66	148.53	107.47	136.23
		NHPC	TEESTA LOW DAM-III HPS	4	33	0	33.25	108.01	140.41	159.9	111.52	136.54
		NHPC	TEESTA LOW DAM-IV HPS	1	40	0	0	0	17.6	197.35	121.68	132.03
		NHPC	TEESTA LOW DAM-IV HPS	2	40	0	0	0	1.17	194.01	147.26	174.27
		NHPC	TEESTA LOW DAM-IV HPS	3	40	0	0	0	0	133.22	107.76	174.76
		NHPC	TEESTA LOW DAM-IV HPS	4	40	0	0	0	0	77.95	118.45	145.47
		WBSEDCL	JALDHAKA HPS ST-I	4	9	-	-	-	-	0	0	0
Hydro Total		WBSEDCL			6425.02	889.18	2310.32	5635.63	9745.09	14511.90	19709.76	18672.58
Nuclear	Tamil Nadu	NPCIL	KUDANKULAM	1	1000	0	0	2610.52	2261.26	6212.38	4437.15	2792.62
		NPCIL	KUDANKULAM	2	1000	0	0	0	0	253.64	4281.39	1280.05
Nuclear Total					2000	0	0	2610.52	2261.26	6466.02	8718.54	4072.67
Grand Total					110195.23	22549.15	95850.45	190578.34	289986.11	372627.34	439011.88	320404.17

Note: @ Sterlite Unit-4 has been converted from IPP to CPP

 # Chuzachen Unit 1 & 2 has been uprated from 49.5MW to 55MW each

*** PROVISIONAL BASED ON ACTUAL-CUM-ASSESMENT**

Note: **1 Generation from conventional sources (Thermal, Hydro and Nuclear) stations.**
2.MU= MILLION UNITS

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ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PARTS (g) & (h) OF UNSTARRED QUESTION NO. 1677 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Details of Export of Electricity to the neighbouring countries for the last three years and the current year

Countries	Export of Energy in MUs			
	2015-16	2016-17	2017-18	2018-19 (till Oct,2018)
Nepal	1469.59	2021.21	2388.96	1449.34
Bangladesh	3654.40	4419.61	4808.83	3336.66
Myanmar	Nil	3.23	5.07	4.35

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1695
ANSWERED ON 20.12.2018

REFORMS IN POWER SECTOR

1695. SHRI RAMSINH RATHWA:

Will the Minister of POWER
be pleased to state:

(a) whether the Government has set up any advisory committee to discuss the issues relating to power sector and to suggest reforms;

(b) if so, the details thereof;

(c) whether this initiative would solve the problems of the sector including the problem of fuel shortage threatening the viability of the sector; and

(d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) to (d) : There is no advisory committee set up to discuss issues relating to power sector or to suggest reforms. However, a High Level Empowered Committee (HLEC) was constituted by the Government on 29.07.2018 to address the issues of Stressed Thermal Power Projects, headed by Cabinet Secretary with representatives from Ministry of Railways, Ministry of Finance, Ministry of Power, Ministry of Coal and the lenders having major exposure to the power sector. The HLEC has made following recommendations in their report:

1. **Recommendations for Coal allocation/supply**

   1.1. Coal Linkage for short-term PPA: Linkage coal may be allowed to be used against short term PPAs and power be sold through Discovery of Efficient Energy Price (DEEP) portal following a transparent bidding process.

.....2.

1.2. Coal Supply in case of termination of PPAs due to Payment default by DISCOMs: A generator should be able to terminate PPA in case of default in payment from the DISCOM with the facility to use linkage coal for short term PPAs for a period of maximum of 2 years or until they find another buyer of power under long/medium term PPA, whichever is earlier.

1.3. Procurement of bulk power by a nodal agency against pre-declared linkages: A nodal agency may be designated which may invite bids for procurement of bulk power for medium term for 3 to 5 years in appropriate tranches, against pre declared linkage by Coal India Limited (CIL).

1.4. PSU to act as an aggregator of power: NTPC can act as an aggregator of power, i.e., procure power through transparent competitive bidding process from such stressed power plants and offer that power to the DISCOMs against PPAs of NTPC till such time as NTPC's own concerned plants/units are commissioned.

1.5. Increase in quantity of coal for special forward e-auction for power sector: Ministry Of Coal may earmark for power, at least 60 per cent of the e-auction coal, and this should be in addition to the regular coal requirement of the power sector.

1.6. Linkage to be provided at notified prices without bidding:The generator should be required to bid only once, for the procurement of PPA and linkage should be granted at notified price without any further bidding, to the extent of incremental coal production.

1.7. Non-lapsing of short supplies of coal: If there is a shortfall in the supply of coal and it is attributable to the Ministry of Coal or Railways; such shortfall need not lapse and be carried over to the subsequent months up to a maximum of three months.

1.8. ACQ to be determined based on efficiency: Upper ceiling for the ACQ/MW may be prescribed by the CEA on the basis of efficiency parameters and irrespective of the capacity and actual consumption of that plant, the coal may be supplied on that basis.

2. Recommendations to facilitate sale of power of the stressed power plants

2.1. Retirement of old and inefficient Plants: Old and high heat rate plants not complying with new environment norms may be considered for retirement in a phased and time bound manner at the same time avoiding any demand/supply mismatch.

.....3.

3. **Recommendations on Regulatory & DISCOM payment issues:**

3.1. Mandatory payment of Late Payment Surcharge (LPS):Late Payment Surcharge be mandatorily paid in the event of delay in payment by the DISCOM.

3.2. Payment Security mechanism for IPPs: PFIs providing the Bill Discounting facility may also be covered by TPA i.e. in case of default by the DISCOM, the RBI may recover the dues from the account of States and make payment to the PFIs.

4. **Other Recommendations**

4.1. Cancellation of PPA/FSA/LTOA post NCLT scenario: PPAs, FSA and LTOA for transmission of power, EC/FC clearances, and all other approvals including water, be kept alive and not cancelled by the respective agencies even if the project is referred to NCLT or is acquired by any other entity. All of these may be linked to the plant and not the Promoter.

4.2. Cancellation of PPA for non-compliance of COD: In case there is a delay in the commissioning of a project, the DISCOMs may be advised not to cancel the PPAs signed with the Generator and the same be kept on hold for a certain period of time.

4.3. Low utilization of Gas plant capacity due to paucity of natural gas: In order to revive gas based power plants, Ministry of Power and Ministry of Petroleum & Natural Gas may jointly devise a scheme in line with the earlier e-bid RLNG Scheme (supported by PSDF).

Report has been circulated by the Government to all members. It has also been published on the website of the Ministry.

It is believed that with the implementation of the recommendations outlined in the report, issues affecting many of the stressed thermal power projects are likely to get resolved and the investments made can be put to productive use.

Govt. of India has taken following steps so far to resolve the issues related to stress in Thermal Power Projects:

I. **Fuel Linkages under SHAKTI; The government has approved a new coal linkage allocation policy on May 17, 2018 named SHAKTI (Scheme for harnessing & allocating koyla transparently in India). Under the scheme, auction of coal linkages for Independent Power Producers (IPPs) with**

.....4.

II. PPAs based on domestic coal has been conducted on September 12, 2017. IPPs having PPA but no coal linkages have participated in the auction and linkages have been granted to 11549 MW capacity (10 projects) including five stressed projects of total 8490 MW capacity, and these projects have been resolved. Under B(i) provision of SHAKTI scheme, linkages have been granted to States/ Central Gencos for 8870 MW for 10 projects.

III. Pilot project for procurement of 2500 MW; In order to address the problem of lack of Power Purchase Agreements (PPAs) in the country, the Ministry of Power has notified a scheme for procurement of 2500 MW on competitive basis for a period of 3 years from the generators with commissioned projects having untied capacity. Under the scheme, PFC Consulting Ltd. invited bids for 2500 MW of power wherein PTC India Limited acted as an aggregator of demand for purchase of power from the power projects and sell that power to states utilities. Bids have been received from 7 (seven) projects for aggregate power of 1900 MW. Letter of Award (LOA) has been issued to all the successful bidders (1900 MW).

IV. DISCOM Payment Monitoring App PRAAPTI: A new App PRAAPTI (Payment Ratification and Analysis in Power Procurement for Bringing Transparency in Invoicing of generators) has been launched by the Ministry of Power to bring more transparency in the payment system by DISCOMs. The generators are being actively encouraged to feed in their invoicing and payments data in the portal.

V. Steps taken to reduce the cost of generation: Reduction in the generation cost is likely to improve the ability of DISCOMs to purchase more power and thus create more demand for power generators. The government has taken various steps to reduce the cost of generation, which are as under:-

a. The introduction of third party sampling by Central Institute of Mining and Fuel Research (CIMFR): The Government has started third party sampling of coal at both loading and unloading end of coal supply from CIL to Generators.

b. Coal linkage rationalization:

- Ministry of Power vide letter no 5/3/2015-OM dated 10th June, 2016 issued the policy on flexibility in utilization of domestic coal for reducing the cost of power generation for central generating companies and state power utility.

- MoP vide letter no 5/3/2015-OM dated 20th February, 2017 issued the methodology for use of coal by state in private generating stations.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1698
ANSWERED ON 20.12.2018

ELECTRIFICATION UNDER SAUBHAGYA SCHEME

1698. ADV. M. UDHAYAKUMAR:

Will the Minister of POWER be pleased to state:

(a) whether the 100 per cent household electrification under the Saubhagya Scheme would be achieved by 2018 end;

(b) if so, the details thereof;

(c) whether the power consumer base was increasing at a rate of one lakh per day and estimates suggested the number of households left to be covered had fallen below 50 lakh; and

(d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana –"Saubhagya" with the objective to achieve universal household electrification by providing electricity connections to all households in rural and all poor households in urban areas by March, 2019.

(c) & (d) : The average release of connections per day, prevailing under Saubhagya during the last one month is around 77,000 households. The State-wise details of remaining households as on 16.12.2018, aimed for electrification by March, 2019 is at Annexure. Considering the experience of execution so far, the number of un-electrified households, are likely to be less than estimated, as many households got electricity during village electrification.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 1698 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Saubhagya: State-wise details of households electrification

As on 16.12.2018

Sl. No.	State	Balance Un-electrified Households
1	Arunachal Pradesh	38,111
2	Assam	7,55,998
3	Chhattisgarh	43,321
4	Jharkhand	4,52,924
5	Karnataka	1,41,453
6	Maharashtra	2,502
7	Manipur	275
8	Meghalaya	1,33,825
9	Nagaland	40,744
10	Odisha	1,55,250
11	Rajasthan	5,69,890
12	Uttar Pradesh	53,97,671
	Total	77,31,964

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1733
ANSWERED ON 20.12.2018

LED BULBS

†1733. SHRI JANAK RAM:

Will the Minister of POWER
be pleased to state:

(a) whether any distributing agency has been created/ authorized in the country for ensuring availability of LED bulbs in the country;

(b) if so, the details thereof, State-wise; and

(c) the details of minimum price fixed for LED bulbs?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : Energy Efficiency Services Limited (EESL), a joint venture company of Public Sector Undertakings (PSUs) under Ministry of Power, is implementing Unnat Jyoti by Affordable LED for All (UJALA) programme to provide LED bulbs to domestic consumers through its designated centres across the country. EESL has empanelled agencies and has also tied up with various Government bodies like Department of Posts, Common Services Centre (CSC) etc. for the distribution of LED bulbs.

States/UTs-wise details of agencies empanelled by EESL for distribution of LED bulbs are given at Annexure.

(c) : No minimum price has been fixed for LED bulbs, however, it is informed by EESL that under UJALA, at present, LED bulbs are being distributed at a uniform price of Rs.70/- per bulb.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1733 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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States/UTs-wise details of distribution agencies

S. No.	States/UTs	Name of Distribution Agencies/Govt. Departments
1.	Andhra Pradesh	Alankit Ltd.
		SNR EDATAS Private Limited
		Ram Info
2.	Arunachal Pradesh	Arunachal Electricity Department
3.	Assam	Common Service Centers
		Assam Electricity Department
		Department of Post
4.	Bihar	Command Consultancy
		Department of Post
		Common Service Centers
5.	Chandigarh	Department of Post
6.	Chhattisgarh	Common Service Centers
		Department of Post
7.	Dadra and Nagar Haveli	State Electricity Department
8.	Daman & Diu	State Electricity Department
9.	Delhi	Department of Post
		Common Service Centers
		Community Works Welfare Society
10.	Goa	Electricity Department
11.	Gujarat	Department of Post
		Common Service Centers
		National Federation of Farmers' Procurement, Processing and Retailing Cooperatives of India Ltd, (NACOF)
		Kishan Infrastructure Industries
12.	Haryana	Petrol Pumps of OMCs under the Ministry of Petroleum
		Department of Post
		Command Consultancy
13.	Himachal Pradesh	Common Service Centers
		Department of Post
		Department of Civil Supplies
14.	Jammu & Kashmir	Common Service Centers
15.	Jharkhand	Department of Post
		National Federation of Farmers Procurement, Processing and Retailing Cooperatives of India Ltd. (NACOF)
16.	Karnataka	State Level Agencies
		Department of Post
17.	Kerala	Kerala Electricity Department
18.	Madhya Pradesh	Akshay Urja Shops
		Department of Post
19.	Maharashtra	National Federation of Farmers' Procurement, Processing and Retailing Cooperatives of India Ltd. (NACOF)
		Department of Post
		Petrol Pumps of OMCs under the Ministry of Petroleum
		Common Service Centers

.....2.

20.	Manipur	Department of Post
		Common Service Centers
21.	Meghalaya	Department of Post
		Common Service Centers
22.	Mizoram	Department of Post
		Common Service Centers
23.	Nagaland	Department of Post
		Common Service Centers
24.	Odisha	Community Works Welfare Society
		National Federation of Farmers Procurement, Processing and Retailing Cooperatives of India Ltd. (NACOF)
		Department of Post
		Common Service Centers
25.	Punjab	Department of Post
		Petrol Pumps of OMCs under the Ministry of Petroleum
26.	Rajasthan	Kishan Infrastructure Industries
		E-Suvidha Centers
27.	Sikkim	Department of Post
		Common Service Centers
28.	Tamil Nadu	State Level Agencies
		Department of Post
29.	Telangana	Alankit Ltd.
		Common Service Centers
		Department of Post
30.	Tripura	Department of Post
		Common Service Centers
31.	Uttar Pradesh	E-Suvidha Centers
		Common Service Centers
		National Federation of Farmers' Procurement, Processing and Retailing Cooperatives of India Ltd, (NACOF)
		Department of Post
		Petrol Pumps of OMCs under the Ministry of Petroleum
32.	Uttarakhand	Department of Post
33.	West Bengal	Command Consultancy
		Common Service Centers
		Department of Post

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1735
ANSWERED ON 20.12.2018

SAUBHAGYA SCHEME

1735. SHRI JYOTIRADITYA M. SCINDIA:
SHRI KAMAL NATH:

Will the Minister of POWER
be pleased to state:

(a) whether the Government has recently announced that electricity connection to every household in the country under the Saubhagya Scheme will be provided by December 31, 2018, if so, the details thereof;

(b) whether the Union Government is aware that electrification has led to an increase in aggregate, technical and commercial losses of power distribution utilities;

(c) if so, the details thereof;

(d) whether to check AT&C losses of power distribution utilities, the Union Government has taken any corrective steps; and

(e) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) : Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – "Saubhagya" with the objective to achieve universal household electrification by providing electricity connections to all households in rural and all poor households in urban areas by March, 2019. Under Saubhagya, Government of India gives funds to the States to the extent of 60% (85% for special category states) as grant. An additional grant of 15% (5% for special category states) is also available subject to achievement of 100% household electrification of all households by 31st December, 2018.

(b) to (e) : Electrification does not increase Aggregate Technical & Commercial (AT&C) losses. The Government have taken several measures to reduce AT&C losses including close monitoring of overall States' performance, identification of Divisions with high AT&C losses, central funding under DDUGJY & IPDS for strengthening of sub-transmission and distribution networks and metering of distribution transformers / feeders / consumers.

Memorandums of Understanding (MoUs) have also been signed under Ujwal Discom Assurance Yojana (UDAY) amongst State Governments/Union Territories, Power Distribution Companies (DISCOMs) and the Ministry of Power, which inter-alia envisages DISCOMs undertaking various steps including reduction in AT&C losses, campaign to control power theft etc.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1755
ANSWERED ON 20.12.2018

STRANDED POWER PLANTS

1755. SHRI ADHALRAO PATIL SHIVAJIRAO:
SHRI SHRIRANG APPA BARNE:
SHRI ANANDRAO ADSUL:
SHRI VINAYAK BHAURAO RAUT:

Will the Minister of POWER be pleased to state:

(a) whether the High Level Empowered Committee (HLEC) set up by Union Government has come out with its report on stranded thermal power projects;

(b) if so, the details thereof and the reasons that have contributed to the current scenario;

(c) the details of thermal power projects which are entirely fuelled by coal and lignite;

(d) whether the aforesaid committee has suggested measures to resolve the challenges;

(e) if so, the details thereof; and

(f) the action taken to resolve the challenges faced by the thermal power projects?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : Yes, Madam. A High Level Empowered Committee (HLEC) was constituted by the Government on 29.07.2018 to examine the issues of Stressed Thermal Power Projects, headed by Cabinet Secretary, with representatives from Ministry of Railways, Ministry of Finance, Ministry of Power, Ministry of Coal and the lenders having major exposure to the power sector.

The HLEC report mentions the major reasons for stress in the Power Sector, which are as follows:

- **Issues related to Coal supply,**
- **Slow growth in Power demand,**

.....2.

- **Delayed payments by DISCOMs,**
- **Inability of the Promoter to infuse equity and service debt,**
- **Slow implementation of project by the developers,**
- **Issues related to Banks/ FIs**
- **Aggressive tariffs quoted by bidders in competitive bidding process,**
- **Regulatory and contractual disputes,**
- **Legal issues related to auctioned coal mines,**
- **Other operational issues such as delay in land acquisitions, inadequate transmission system etc.**

(c) : The details of Thermal Power Project which are entirely fuelled by coal and lignite are provided in Annexure.

(d) & (e) : The HLEC has made following recommendations in their report:

1. **Recommendations for Coal allocation/supply**

1.1. Coal Linkage for short-term PPA: Linkage coal may be allowed to be used against short term PPAs and power be sold through Discovery of Efficient Energy Price (DEEP) portal following a transparent bidding process.

1.2. Coal Supply in case of termination of PPAs due to Payment default by DISCOMs: A generator should be able to terminate PPA in case of default in payment from the DISCOM with the facility to use linkage coal for short term PPAs for a period of maximum of 2 years or until they find another buyer of power under long/medium term PPA, whichever is earlier.

1.3. Procurement of bulk power by a nodal agency against pre-declared linkages: A nodal agency may be designated which may invite bids for procurement of bulk power for medium term for 3 to 5 years in appropriate tranches, against pre declared linkage by Coal India Limited (CIL).

1.4. PSU to act as an aggregator of power: NTPC can act as an aggregator of power, i.e., procure power through transparent competitive bidding process from such stressed power plants and offer that power to the DISCOMs against PPAs of NTPC till such time as NTPC's own concerned plants/units are commissioned.

1.5. Increase in quantity of coal for special forward e-auction for power sector: Ministry Of Coal may earmark for power, at least 60 per cent of the e-auction coal, and this should be in addition to the regular coal requirement of the power sector.

1.6. Linkage to be provided at notified prices without bidding:The generator should be required to bid only once, for the procurement of PPA and linkage should be granted at notified price without any further bidding, to the extent of incremental coal production.

.....3.

1.7. Non-lapsing of short supplies of coal: If there is a shortfall in the supply of coal and it is attributable to the Ministry of Coal or Railways; such shortfall need not lapse and be carried over to the subsequent months up to a maximum of three months.

1.8. ACQ to be determined based on efficiency: Upper ceiling for the ACQ/MW may be prescribed by the CEA on the basis of efficiency parameters and irrespective of the capacity and actual consumption of that plant, the coal may be supplied on that basis.

2. Recommendations to facilitate sale of power of the stressed power plants

2.1. Retirement of old and inefficient Plants: Old and high heat rate plants not complying with new environment norms may be considered for retirement in a phased and time bound manner at the same time avoiding any demand/supply mismatch.

3. Recommendations on Regulatory & DISCOM payment issues:

3.1. Mandatory payment of Late Payment Surcharge (LPS):Late Payment Surcharge be mandatorily paid in the event of delay in payment by the DISCOM.

3.2. Payment Security mechanism for IPPs: PFIs providing the Bill Discounting facility may also be covered by TPA i.e. in case of default by the DISCOM, the RBI may recover the dues from the account of States and make payment to the PFIs.

4. Other Recommendations

4.1. Cancellation of PPA/FSA/LTOA post NCLT scenario: PPAs, FSA and LTOA for transmission of power, EC/FC clearances, and all other approvals including water, be kept alive and not cancelled by the respective agencies even if the project is referred to NCLT or is acquired by any other entity. All of these may be linked to the plant and not the Promoter.

4.2. Cancellation of PPA for non-compliance of COD: In case there is a delay in the commissioning of a project, the DISCOMs may be advised not to cancel the PPAs signed with the Generator and the same be kept on hold for a certain period of time.

4.3. Low utilization of Gas plant capacity due to paucity of natural gas: In order to revive gas based power plants, Ministry of Power and Ministry of Petroleum & Natural Gas may jointly devise a scheme in line with the earlier e-bid RLNG Scheme (supported by PSDF).

Report has been circulated by the Government to all members. It has also been published on the website of the Ministry.

.....4.

(f) : Govt. of India has taken following steps to resolve the issues related to stress in Thermal Power Projects:

I. **Fuel Linkages under SHAKTI; The government has approved a new coal linkage allocation policy on May 17, 2018 named SHAKTI (Scheme for harnessing & allocating koyla transparently in India). Under the scheme, auction of coal linkages for Independent Power Producers (IPPs) with PPAs based on domestic coal has been conducted on September 12, 2017. IPPs having PPA but no coal linkages have participated in the auction and linkages have been granted to 11549 MW capacity (10 projects) including five stressed projects of total 8490 MW capacity, and these projects have been resolved. Under B(i) provision of SHAKTI scheme, linkages have been granted to States/ Central Gencos for 8870 MW for 10 projects.**

II. **Pilot project for procurement of 2500 MW; In order to address the problem of lack of Power Purchase Agreements (PPAs) in the country, The Ministry of Power has notified a scheme for procurement of 2500 MW on competitive basis for a period of 3 years from the generators with commissioned projects having untied capacity. Under the scheme, PFC Consulting Ltd. invited bids for 2500 MW of power wherein PTC India Limited acted as an aggregator of demand for purchase of power from the power projects and sell that power to states utilities. Bids have been received from 7 (seven) projects for aggregate power of 1900 MW. Letter of Award (LOA) has been issued to all the successful bidders (1900 MW).**

III. **DISCOM Payment Monitoring App PRAAPTI: A new App PRAAPTI (Payment Ratification and Analysis in Power Procurement for Bringing Transparency in Invoicing of generators) has been launched by the Ministry of Power to bring more transparency in the payment system by DISCOMs. The generators are being actively encouraged to feed in their invoicing and payments data in the portal.**

IV. **Steps taken to reduce the cost of generation: Reduction in the generation cost is likely to improve the ability of DISCOMs to purchase more power and thus create more demand for power generators. The government has taken various steps to reduce the cost of generation, which are as under:-**

a. **The introduction of third party sampling by Central Institute of Mining and Fuel Research (CIMFR): The Government has started third party sampling of coal at both loading and unloading end of coal supply from CIL to Generators.**

b. **Coal linkage rationalization:**

- **Ministry of Power vide letter no 5/3/2015-OM dated 10th June, 2016 had issued the policy on flexibility in utilization of domestic coal for reducing the cost of power generation for central generating companies and state power utility.**

- **MoP vide letter no 5/3/2015-OM dated 20th February, 2017 issued the methodology for use of coal by state in private generating stations.**

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1755 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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List of Coal /lignite Power Stations in the country as on 30.11.2018

Fuel	Sector	State	Name of Project	Capacity (MW)
Coal	Central Sector	Andhra Pradesh	SIMHADRI	2000.00
		Assam	BONGAIGAON TPP	500.00
		Bihar	BARH II	1320.00
			KAHALGAON TPS	2340.00
			MUZAFFARPUR TPS	610.00
			NABI NAGAR TPP	500.00
		Chhattisgarh	BHILAI TPS	500.00
			KORBA STPS	2600.00
			LARA TPP	800.00
			SIPAT STPS	2980.00
		Haryana	INDIRA GANDHI STPP	1500.00
		Jharkhand	BOKARO `B` TPS	210.00
			BOKARO TPS `A` EXP	500.00
			CHANDRAPURA(DVC) TPS	630.00
			KODARMA TPP	1000.00
		Karnataka	KUDGI STPP	2400.00
		Madhya Pradesh	VINDHYACHAL STPS	4760.00
		Maharashtra	MAUDA TPS	2320.00
			SOLAPUR STPS	660.00
		Odisha	TALCHER (OLD) TPS	460.00
			TALCHER STPS	3000.00
		Tamil Nadu	TUTICORIN (JV) TPP	1000.00
			VALLUR TPP	1500.00
		Telangana	RAMAGUNDEM STPS	2600.00
		Uttar Pradesh	DADRI (NCTPP)	1820.00
			MEJA STPP	660.00
			RIHAND STPS	3000.00
			SINGRAULI STPS	2000.00
			TANDA TPS	440.00
			UNCHAHAR TPS	1550.00
		West Bengal	DURGAPUR STEEL TPS	1000.00
			DURGAPUR TPS	210.00
			FARAKKA STPS	2100.00
			MEJIA TPS	2340.00
			RAGHUNATHPUR TPP	1200.00
	Central Sector Total			53010.00
	State Sector	Andhra Pradesh	DAMODARAM SANJEEVAIAH TPS	1600.00
			Dr. N.TATA RAO TPS	1760.00
			RAYALASEEMA TPS	1650.00
		Bihar	BARAUNI TPS	710.00
		Chhattisgarh	DSPM TPS	500.00
			KORBA-II	200.00
			KORBA-III	240.00
			KORBA-WEST TPS	1340.00
			MARWA TPS	1000.00
		Delhi	RAJGHAT TPS	135.00
		Gujarat	GANDHI NAGAR TPS	630.00
			SIKKA REP. TPS	500.00
			UKAI TPS	1110.00
			WANAKBORI TPS	1470.00

		Haryana	PANIPAT TPS	920.00
			RAJIV GANDHI TPS	1200.00
			YAMUNA NAGAR TPS	600.00
		Jharkhand	TENUGHAT TPS	420.00
		Karnataka	BELLARY TPS	1700.00
			RAICHUR TPS	1720.00
			YERMARUS TPP	1600.00
		Madhya Pradesh	AMARKANTAK EXT TPS	210.00
			SANJAY GANDHI TPS	1340.00
			SATPURA TPS	1330.00
			SHREE SINGAJI TPP	1860.00
		Maharashtra	BHUSAWAL TPS	1210.00
			CHANDRAPUR(MAHARASHTRA) STPS	2920.00
			KHAPARKHEDA TPS	1340.00
			KORADI TPS	2400.00
			NASIK TPS	630.00
			PARAS TPS	500.00
			PARLI TPS	1170.00
		Odisha	IB VALLEY TPS	420.00
		Punjab	GH TPS (LEH.MOH.)	920.00
			ROPAR TPS	840.00
		Rajasthan	CHHABRA TPP	1660.00
			KALISINDH TPS	1200.00
			KOTA TPS	1240.00
			SURATGARH TPS	1500.00
		Tamil Nadu	METTUR TPS	840.00
			METTUR TPS-II	600.00
			NORTH CHENNAI TPS	1830.00
			TUTICORIN TPS	1050.00
		Telangana	KAKATIYA TPS	1100.00
			KOTHAGUDEM TPS	720.00
			KOTHAGUDEM TPS (NEW)	1000.00
			RAMAGUNDEM - B TPS	62.50
			SINGARENI TPP	1200.00
		Uttar Pradesh	ANPARA TPS	2630.00
			HARDUAGANJ TPS	605.00
			OBRA TPS	1094.00
			PARICHHA TPS	1140.00
		West Bengal	BAKRESWAR TPS	1050.00
			BANDEL TPS	330.00
			D.P.L. TPS	660.00
			KOLAGHAT TPS	1260.00
			SAGARDIGHI TPS	1600.00
			SANTALDIH TPS	500.00
	State Sector Total			62966.50
	Private Sector	Andhra Pradesh	PAINAMPURAM TPP	1320.00
			SGPL TPP	1320.00
			SIMHAPURI TPS	600.00
			THAMMINAPATNAM TPS	300.00
			VIZAG TPP	1040.00
		Chhattisgarh	AKALTARA TPS	1800.00
			AVANTHA BHANDAR	600.00
			BALCO TPS	600.00
			BANDAKHAR TPP	300.00
			BARADARHA TPS	1200.00
			BINJKOTE TPP	600.00
			CHAKABURA TPP	30.00
			KASAIPALLI TPP	270.00
			KATGHORA TPP	35.00
			NAWAPARA TPP	600.00
			OP JINDAL TPS	1000.00

			PATHADI TPP	600.00
			RAIKHEDA TPP	1370.00
			RATIJA TPS	100.00
			SALORA TPP	135.00
			SVPL TPP	63.00
			SWASTIK KORBA TPP	25.00
			TAMNAR TPP	2400.00
			UCHPINDA TPP	1080.00
		Gujarat	MUNDRA TPS	4620.00
			MUNDRA UMTPP	4000.00
			SABARMATI (C STATION)	60.00
			SABARMATI (D-F STATIONS)	362.00
			SALAYA TPP	1200.00
		Haryana	MAHATMA GANDHI TPS	1320.00
		Jharkhand	JOJOBERA TPS	240.00
			MAHADEV PRASAD STPP	540.00
			MAITHON RB TPP	1050.00
		Karnataka	TORANGALLU TPS(SBU-I)	260.00
			TORANGALLU TPS(SBU-II)	600.00
			UDUPI TPP	1200.00
		Madhya Pradesh	ANUPPUR TPP	1200.00
			BINA TPS	500.00
			MAHAN TPP	1200.00
			NIGRI TPP	1320.00
			NIWARI TPP	45.00
			SASAN UMTPP	3960.00
			SEIONI TPP	600.00
		Maharashtra	AMARAVATI TPS	1350.00
			BELA TPS	270.00
			BUTIBORI TPP	600.00
			DAHANU TPS	500.00
			DHARIWAL TPP	600.00
			GEPL TPP Ph-I	120.00
			GMR WARORA TPS	600.00
			JSW RATNAGIRI TPP	1200.00
			MIHAN TPS	246.00
			NASIK (P) TPS	1350.00
			SHIRPUR TPP	150.00
			TIRORA TPS	3300.00
			TROMBAY TPS	1250.00
			WARDHA WARORA TPP	540.00
		Odisha	DERANG TPP	1200.00
			KAMALANGA TPS	1050.00
			STERLITE TPP	1200.00
			UTKAL TPP (IND BARATH)	350.00
		Punjab	GOINDWAL SAHIB	540.00
			RAJPURA TPP	1400.00
			TALWANDI SABO TPP	1980.00
		Rajasthan	KAWAI TPS	1320.00
		Tamil Nadu	ITPCL TPP	1200.00
			MUTHIARA TPP	1200.00
			TUTICORIN (P) TPP	300.00
		Uttar Pradesh	ANPARA C TPS	1200.00
			BARKHERA TPS	90.00
			KHAMBARKHERA TPS	90.00
			KUNDARKI TPS	90.00
			LALITPUR TPS	1980.00
			MAQSOODPUR TPS	90.00
			PRAYAGRAJ TPP	1980.00
			ROSA TPP Ph-I	1200.00
			UTRAULA TPS	90.00

		West Bengal	BUDGE BUDGE TPS	750.00
			HALDIA TPP	600.00
			Hiranmaye TPP	300.00
			SOUTHERN REPL. TPS	135.00
			TITAGARH TPS	240.00
	Private Sector Total			74316.00
Coal Total				190292.50
Lignite	Central Sector	Rajasthan	BARSINGSAR LIGNITE	250.00
		Tamil Nadu	NEYVELI (EXT) TPS	420.00
			NEYVELI TPS- I	600.00
			NEYVELI TPS-II	1470.00
			NEYVELI TPS-II EXP	500.00
	Central Sector Total			3240.00
	State Sector	Gujarat	AKRIMOTA LIG TPS	250.00
			BHAVNAGAR CFBC TPP	500.00
			KUTCH LIG. TPS	290.00
		Rajasthan	GIRAL TPS	250.00
	State Sector Total			1290.00
	Private Sector	Gujarat	SURAT LIG. TPS	500.00
		Rajasthan	JALIPA KAPURDI TPP	1080.00
		Tamil Nadu	NEYVELI TPS(Z)	250.00
	Private Sector Total			1830.00
Lignite Total				6360.00
Grand Total				196652.50

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1768
ANSWERED ON 20.12.2018

PENDING HYDRO POWER PROJECT

†1768. SHRI HARI MANJHI:

Will the Minister of POWER
be pleased to state:

(a) whether a number of hydro power projects with a capacity of more than thirteen thousand megawatts are lying stranded/pending at various stages of completion;

(b) if so, the details thereof along with the cost and time overruns of the said projects upto 2017, project-wise;

(c) whether a special committee has been constituted for facilitating investment, issuance of clearance and coordination in works amongst various institutions involved in both hydro and thermal power generation; and

(d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : At present 37 Hydro Electric Projects (HEPs), above 25 MW, aggregating to 12178.5 MW are at various stages of construction in the country. Details of the same are given at Annex-I. Out of these 37 HEPs, 16 projects aggregating to 5950 MW are stalled due to various reasons. Details of these Projects along with time and cost overrun as per the latest anticipated cost reported by the developers in the latest progress reports to Central Electricity Authority (CEA) are given at Annex-II.

(c) & (d) : No Special Committee has been constituted for facilitating investment, issuance of clearance and co-ordination of works amongst various institutions involved in both hydro and thermal power generation.

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1768 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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DETAILS OF UNDER CONSTRUCTION HYDRO ELECTRIC PROJECTS (ABOVE 25 MW)

Sl. No.	Project Name/ (Installed Capacity)/ Executing Agency	State
	CENTRAL SECTOR	
1	Tapovan Vishnughad (4x130 = 520 MW) NTPC	Uttarakhand
2	Lata Tapovan (3x57 = 171 MW) NTPC	Uttarakhand
3	Rammam-III (3x40= 120 MW) NTPC	West Bengal
4	Kameng (4x150 = 600 MW) NEEPCO	Arunachal Pradesh
5	Tehri PSS (4x250 = 1000 MW) THDC	Uttarakhand
6	Parbati – II (4x200 = 800 MW) NHPC	Himachal Pradesh
7	Subansiri Lower (8x250 = 2000 MW) NHPC	Arunachal Pradesh/ Assam
8	Vishnugad Pipalkoti (4x111 = 444 MW) THDC	Uttarakhand
9	Pakal Dul (4x250= 1000 MW) CVPP	Jammu & Kashmir
10	Naitwar Mori (2x30=60 MW) SJVNL	Uttarakhand
	STATE SECTOR	
11	Parnai (3x12.5= 37.5 MW) JKSPDC	Jammu & Kashmir
12	Lower Kalnai (2x24= 48 MW) JKSPDC	Jammu & Kashmir
13	Uhl-III (3x33.33 = 100 MW) BVPCL	Himachal Pradesh
14	Sawra Kuddu (3x37 =111MW) HPPCL	Himachal Pradesh
15	Shongtom Karcham (3x150 = 450 MW) HPPCL	Himachal Pradesh
16	Pallivasal (2x30 = 60 MW) KSEB	Kerala
17	Thottiyar (1x30+1x10)= 40MW KSEB	Kerala
18	Shahpurkandi (3x33+3x33+1x8=206 MW) Irrigation Deptt. &PSPCL	Punjab

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19	Koyna Left Bank PSS (2x40 = 80 MW) WRD, Maha	Maharashtra
20	Vyasi (2x60=120 MW) UJVNL	Uttarakhand
21	Polavaram (12x80 = 960 MW) APGENCO / Irr. Deptt., A.P.	Andhra Pradesh
22	Kundah Punped Storage Phase-I (1x125=125 MW) TANGEDCO	Tamil Nadu
	PRIVATE SECTOR	
23	Tidong-I (2x50 =100 MW) Statkraft India Pvt. Ltd.	Himachal Pradesh
24	Tangnu Romai-I (2x22 = 44 MW) TRPGPL	Himachal Pradesh
25	Sorang (2x50 = 100 MW), HSPPL	Himachal Pradesh
26	Singoli Bhatwari (3x33 = 99 MW) L&T	Uttarakhand
27	Phata Byung (2x38 = 76 MW), LANCO	Uttarakhand
28	Maheshwar (10x40 = 400 MW) SMHPCL	Madhya Pradesh
29	Teesta Stage VI (4x125 = 500 MW) Lanco Energy Pvt. Ltd.	Sikkim
30	Rangit-IV HE Project (3X40 = 120 MW) JPCL	Sikkim
31	Bhasmey (2x25.5 =51 MW) Gati Infrastructure	Sikkim
32	Rongnichu (2x48 =96 MW) Madhya Bharat Pvt. Ltd.	Sikkim
33	Ratle (4x205+1x30 = 850 MW) Ratle HEP Pvt .Ltd.	Jammu & Kashmir
34	Gongri (2x72= 144 MW) Dirang Energy (P)Ltd	Arunachal Pradesh
35	Bajoli Holi (3x60= 180 MW) M/s GMR Bajoli Holi	Himachal Pradesh
36	Rangit-II (2x33= 66 MW) Sikkim Hydro Power Ltd.	Sikkim
37	Panan (4x75= 300 MW) Himagiri Hydro Energy Pvt. Ltd.	Sikkim
	Total= 12178.5 MW	

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ANNEX-II

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1768 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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DETAILS OF TIME/COST OVERRUN IN 16 STALLED HYDRO ELECTRIC PROJECTS (ABOVE 25 MW)

Sl. No.	Project Name/ (Installed Capacity)/ Executing Agency	State	Unit No.	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Time over run (months)	Org. Cost (Rs. in Crores)	Latest/Ant. Cost (Rs. in Crores)	Cost over run (Rs. in Crores)
1	2	3	4	5	6	7	8	9	10	11
	CENTRAL SECTOR									
1	Lata Tapovan (3x57 = 171 MW) NTPC	Uttarakhand	1 2 3	57 57 57	2017-18 2017-18 2017-18 (Aug'17)	2022-23 2022-23 2022-23 [subject to re-start of works (4 years)]	67	1810.47	Under revision	N.A.
2	Tehri PSS (4x250 = 1000 MW) THDC	Uttarakhand	1 2 3 4	250 250 250 250	2010-11 2010-11 2010-11 2010-11 (July'10)	2021-22 2021-22 2021-22 2021-22 (May'21) (subject to re-start of works)	130	1657.60 (Dec-05)	3939.11	2281.51
3	Subansiri Lower (8x250 = 2000 MW) NHPC	Arunachal Pradesh/ Assam	1 2 3 4 5 6 7 8	250 250 250 250 250 250 250 250	2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 (Sep'10)	2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 [subject to re-start of works (4 years)]	150	6285.33 (12/02)	18559.49 (04/17)	12274.16
	STATE SECTOR									
4	Lower Kalnai 2x24= 48 MW JKSPDC	Jammu & Kashmir	1 2	24 24	2017-18 2017-18 (Sep'17)	2022-23 2022-23 [subject to re-start of works (4 years)]	66	576.87 (12/12) (Completion cost)	576.87 (12/12) (Completion cost)	Nil
5	Koyna Left Bank PSS 2x40 = 80 MW WRD, Maha	Maharashtra	1 2	40 40	2014-15 2014-15 (Oct'14)	2022-23 [subject to re-start of works (4 years)]	101	245.02 (1999)	1494.94 (2014)	1249.92
	PRIVATE SECTOR									
6	Tangnu Romai-I (2x22 = 44 MW) TRPGPL	Himachal Pradesh	1 2	22 22	2014-15 2014-15 (Jun'14)	2021-22 2021-22 [subject to re-start of works (4 years)]	93	255.00 (01/07)	562.97 (01/17)	307.97
7	Sorang (2x50 = 100 MW), HSPPL	Himachal Pradesh	1 2	50 50	2011-12 2011-12 (Nov'11)	2020-21 2020-21 [subject to re-start of works (1 Year)]	112	586.00 (04/2005)	Under revision	N.A.
8	Phata Byung (2x38 = 76 MW), LANCO	Uttarakhand	1 2	38 38	2012-13 2012-13 (Jun'12)	2021-22 2021-22 [subject to re-start of works (3 years)]	117	520.00 (2013-14)	1225.53	705.53

.....2.

9	Maheshwar (10x40 = 400 MW) SMHPCL	Madhya Pradesh	1 2 3 4 5 6 7 8 9 10	40 40 40 40 40 40 40 40 40 40	2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 (Mar'02)	2020-21 [subject to re-start of works (1-½ years)]	228	1569.27 (96-97)	8121.00 (2016-17)	6551.73
10	Teesta Stage VI (4x125 = 500 MW) Lanco Energy Pvt. Ltd.	Sikkim	1 2 3 4	125 125 125 125	2012-13 2012-13 2012-13 2012-13 (Jul'12)	2021-22 2021-22 2021-22 2021-22 [subject to re-start of works (3 years)]	116	3283.08 (2008)	7542.00 (12/16)	4258.92
11	Rangit-IV HE Project (3X40 = 120 MW) JPCL	Sikkim	1 2 3	40 40 40	2011-12 2011-12 2011-12 (Jan'12)	2021-22 2021-22 2021-22 (subject to re-start of works(3-½ year)	122	726.17 (2011-12)	1692.60 (06/16)	966.43
12	Bhasmey (2x25.5 =51 MW) Gati Infrastructure	Sikkim	1 2	25.5 25.5	2012-13 2012-13 (Jun'12)	2021-22 2021-22 [subject to re-start of works (3 years)]	117	408.50 (2012-13)	690.30	281.80
13	Ratle (4x205+1x30) =850 MW Ratle HEP Pvt .Ltd.	J&K	1 2 3 4 5	205 205 205 205 30	2017-18 2017-18 2017-18 2017-18 2017-18	2023-24 2023-24 2023-24 2023-24 2023-24 [subject to re-start of works (5 years)]	72	5517.02 (03/12)	6257.00 (09/2013)	739.98
14	Gongri 2x72= 144 MW Dirang Energy (P)Ltd	Ar. Pradesh	1 2	72 72	2016-17 2016-17 (Oct'16)	2022-23 2022-23 [subject to re-start of works (3-½ years)]	77	1436.27 (05/12)	1436.27 (05/12)	Nil
15	Rangit-II 2x33= 66 MW Sikkim Hydro Power Ltd.	Sikkim	1 2	33 33	2015-16 2015-16 (Apr'15)	2020-21 2020-21 (subject to re-start of works(2-½ years))	71	496.44	496.44	Nil
16	Panan 4x75= 300 MW Himagiri Hydro Energy Pvt. Ltd.	Sikkim	1 2 3 4	75 75 75 75	2018-19 2018-19 2018-19 2018-19	2022-23 2022-23 2022-23 2022-23 [subject to re-start of works (4-½ years)]	48	1833.05 (2009)	2516.00 (09/16)	682.95
	Total= 5950 MW									

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1779
ANSWERED ON 20.12.2018

POWER GENERATION

†1779. SHRI RAM KUMAR SHARMA:

Will the Minister of POWER
be pleased to state:

(a) whether there has been 6.2% increase in electricity generation in the country during the period from April to September, 2018;

(b) if so, the details thereof;

(c) whether electricity tariff has also been increased during the above period in the country for power trading under the Indian Energy Exchange Programme;

(d) if so, the extent of increase registered therein; and

(e) the reasons for increase in the tariff despite increase in the generation of electricity?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : Yes, Madam. The growth in electricity generation during April to September 2018 is 6.2% as compared to the same period last year. The details are given at Annex.

(c) to (e) : Electricity price known as the Market Clearing Price (MCP) is discovered in the power exchanges as per the notified market mechanism for each of the 96 time blocks of 15 minutes in a day. The MCP for each time block depends on the demand and supply side bids.

.....2.

As reported by India Energy Exchange (IEX), the average monthly MCP was Rs. 3.97 per kWh during April to September 2018. It was Rs. 2.99 per kWh during the corresponding period of 2017-18. Thus there is an increase of 32.4% in the average monthly MCP. The maximum average monthly MCP was Rs. 4.69 per kWh in the month of September 2018 and minimum average monthly MCP was Rs. 3.34 per kWh in the month of August 2018. However, the average monthly MCP during the month of November 2018 has reduced to Rs. 3.59 per kWh and was almost comparable to Rs. 3.55 per kWh during the month of November 2017. The energy traded in the power exchanges during April-September 2018 was only 3.91% of actual generation during the period.

The increase in electricity prices in the power exchanges during April to September 2018 may be attributed to higher demand of power as well as well supply side constraints on account of coal supply, reduced hydro and wind generation, etc.

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ANNEX

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1779 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Electricity generation in the country during the period from April to September 2018

GENERATION (BU)	2017-18*	2018-19*	% Increase
Generation from Conventional Sources	611.255	635.807	4.02
Generation from Renewable	56.609	73.327	29.53
Total Generation (BU)	667.864	709.134	6.18
Monthly Power Exchange Transaction Volume (BU)	23.843	27.732	16.31
% Share in Total Generation	3.57	3.91	

Note: Generation from conventional sources (Thermal, Hydro & Nuclear) covers stations of 25 MW and above only.

*** April – September 2018**

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1781
ANSWERED ON 20.12.2018

POWER CONSUMED BY INDUSTRIES

†1781. SHRI MANSHANKAR NINAMA:

Will the Minister of POWER be pleased to state:

(a) whether the Government has proposed norms for restricting the consumption of power by the power intensive industries;

(b) if so, the details thereof;

(c) whether said norms are being complied with by all the industries;

(d) if so, the details thereof and if not, the reasons therefor; and

(e) the steps taken by the Government to ensure that mandatory norms relating to consumption of power are being complied with by the industries?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) to (e) : Section 14 of the Energy Conservation Act, 2001 empowers the Central Government to enforce efficient use of energy and its conservation. Accordingly, under clauses (g) and (n) of Section 14 of the said Act, the Central Government has prescribed energy consumption norms for energy intensive industries, under Perform, Achieve and Trade (PAT) Scheme. PAT is a regulatory mechanism to reduce the specific energy consumption (SEC) in energy intensive industries with the use of tradable energy saving certificates (ESCerts). In four PAT cycles of three years each, SEC reduction targets have been given to 846 designated consumers (DCs) in 13 sectors, namely, Aluminium, Cement, Chlor-Alkali, Fertiliser, Pulp & Paper, Iron & Steel, Textile, Thermal Power Plants, Electricity DISCOMs, Petroleum Refinery, Railways, Petrochemicals and Commercial Buildings (Hotels).

In first cycle of PAT, 478 DCs in 8 sectors were mandated to reduce their SEC with an aim to implement energy savings of 6.686 million tonnes of oil equivalent (mtoe). This cycle was completed in 2015 with achievement of energy savings of 8.67 mtoe, which is about 30% above the target. 306 DCs, which achieved excess energy savings over the given targets were issued about 38.25 lakh ESCerts. Further, 110 DCs which could not achieve the targets under this cycle were required to purchase about 14.25 lakh ESCerts to meet the shortfall.

Trading of ESCerts at Power Exchange took place during September 2017 to January 2018, wherein about 12.98 lakh ESCerts (approx. INR 100 Crores) were traded.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1788
ANSWERED ON 20.12.2018

POWER PROJECTS

1788. SHRI R.P. MARUTHARAJAA:

Will the Minister of POWER
be pleased to state:

(a) whether studies have been conducted to explore the feasibility of setting up thermal power projects in the country including Tamil Nadu State;

(b) if so, the details thereof, State-wise including Tamil Nadu; and

(c) the details of the thermal power projects under consideration of the Government to be set up in Tamil Nadu State?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) : Central Electricity Authority (CEA) had got the studies conducted for identification of large pithead and coastal sites based on satellite mapping using remote sensing technology.

(b) : A total of 200 Nos. potential sites with likely Gross Installed Capacity of 4,28,905 MW have been identified. The state wise (including Tamil Nadu) list of these sites is given at Annex. This list includes Fourteen Nos. (14) sites in Tamil Nadu totalling to 31,250 MW .

(c) : After the enactment of the Electricity Act, 2003 generation of electricity has been de-licensed. As such Techno- Economic clearance of Central Electricity Authority (CEA) is not required for thermal power projects. Therefore, the proposals for setting up thermal power projects in the country including Tamil Nadu are not being received in CEA.

As per information available in CEA, following two UMPP's are identified in Tamil Nadu State :

1. **Cheyyur UMPP- 4000 MW at Cheyyur village, Kancheepuram, Tamil Nadu**
2. **2nd UMPP (4000 MW) in Tamil Nadu (location not yet decided).**

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ANNEX

ANNEX REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1788 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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SHELF OF SITES FOR THERMAL POWER PROJECTS

A. Coal Based

I. Pit Head Sites Identified by CMPDI

S. No.	Name of the Project/Site	State	Capacity (MW)
1	Dabra, Janjgir-Champa	Chhattisgarh	1000
2	Dumarpal, Janjgir-Champa	Chhattisgarh	1000
3	Garhi, Jashpurnagar	Chhattisgarh	1000
4	Pathalgaon, Ambikapur	Chhattisgarh	1000
5	Akaltara	Chhattisgarh	3000
6	Champa	Chhattisgarh	3000
7	Loharsi	Chhattisgarh	3000
8	Katsira	Chhattisgarh	3000
9	Malhar	Chhattisgarh	3000
10	Ramanujganj	Chhattisgarh	700
11	Lurgi	Chhattisgarh	1000
12	Mahabirganj	Chhattisgarh	1000
13	Chutru	Chhattisgarh	1000
14	Amartipur	Jharkhand	1000
15	Rajpokhar	Jharkhand	1800
16	Hathibathan	Jharkhand	1800
17	Kadma	Jharkhand	1800
18	Daldali	Jharkhand	1800
19	Murgi	Jharkhand	2400
20	Bagchoma	Jharkhand	2400
21	Deoria	Jharkhand	2400
22	Kanha	Jharkhand	2400
23	Tori	Jharkhand	2400
24	Rengali	Orissa	5000
25	Angul	Orissa	7000
26	Babandh	Orissa	10,000
27	Gajmara	Orissa	10,000
28	Joranda	Orissa	12,000
29	Charbatia	Orissa	12,000
		Sub Total	98,900

II. Coastal Sites identified by NRSA

1	Kuchchh	Gujarat	2000
2	Jamnagar	Gujarat	2000
3	Junagarh	Gujarat	2000
4	Amreli	Gujarat	2000
5	Bhavnagar	Gujarat	2000
6	Ahmedabad	Gujarat	2000
7	Ratnagiri	Maharashtra	4000
8	Sindhudurg	Maharashtra	4000
9	PeddaGanjam(Prakasam District)	Andhra Pradesh	2000
10	Alluru(Prakasam District)	Andhra Pradesh	2000
11	Chintavaram(Nellore District)	Andhra Pradesh	4000
12	Cheyur(KanchipurmDisrict)	Tamil Nadu	4000
13	Nagapattinam	Tamil Nadu	2000
14	Kilkari (Ramananthpuram District)	Tamil Nadu	2000
15	Vembar (Ramananthpuram District)	Tamil Nadu	2000
		Sub Total	38,000

III. Lignite Based sites identified by NLC/states

1.	Valia North /South	Gujarat	625
2.	Mangrol-II TPP	Gujarat	655
3.	Riri Block	Rajasthan	750
4.	Kapurdhi Block	Rajasthan	600
5.	Jalipa Block	Rajasthan	600
6.	Devangudi Mine TPP	Tamil Nadu	250
7.	Jayamkondam South Block TPP	Tamil Nadu	1000
		Sub Total	4480

IV Sites Identified by CMPDI near coal blocks

S. No.	Name of the Project/Site	State	Capacity (MW)
1	Rakshi,TehsilTandwa, Chatra district	Jharkhand	700
2	Balu Bhang, Tehsil Balumanth, Latehar district	Jharkhand	700
3	Masiatu Tehsil Balumanth , Latehar district	Jharkhand	700
4	Mashilong, Tehsil Balumanth , Latehar district	Jharkhand	700
5	Pakrilytola, Tehsil Patratu, Ramgarh district	Jharkhand	1000
6	Karmantar, Tehsil Konar, Ramgarh district	Jharkhand	1000
7	Chinitola, Tehsil Petarwar, Ramgarh district	Jharkhand	2000
8	Khamar, TehsiRengali, Angul district	Orissa	6700
9	Hathinachlai Tehsil Banarpal, Dhenkanal district	Orissa	5000
10	Rajnarainsinghpur Tehsil Hindol, Dhenkanal district	Orissa	6700
11	Panchumahala, Tehsil Sadar, Angul district	Orissa	2000
12	Paranga,TehsilSadar, Angul district	Orissa	2000
13	Tikra (Sendhra) Tehsil Sadar, Angul district	Orissa	2000
14	Narsinghpur, Cuttack district	Orissa	1500
15	Tildega, Tehsil Tildega, Sundargarh district	Orissa	2600
16	Bundapalli, Tehsil Sadar, Sundargarh district	Orissa	2600
17	Rajpur, Tehsil Rajpur, Sundargarh district	Orissa	2600
18	Kumar, Tehsil Machida, Jharsuguda district	Orissa	2600
19	Kantamal, Tehsil Kantama, Bolangir district	Orissa	2600
20	Titlagarh, Tehsil Titlagarh, Bolangir district	Orissa	2600
19	Rengalpalli, Pussore Tehsil, Raigarh district	Chhattisgarh	2600
20	Bangama, Tehsil Kunkuri, Jashpur district	Chhattisgarh	1800
21	Janjeman, Tehsil Pathalgaon, Jashpur district	Chhattisgarh	1800
22	Bakurama, Tehsil Dharamjaygarh, Raigarh district	Chhattisgarh	1500
23	Kerakachahar, Tehsil Pathalgaon, Ambikapur district	Chhattisgarh	1500
24	Sapos,TehsilDabra,Janjgir-Champa district	Chhattisgarh	1800
25	Salka/Khamariya, Sarguja district	Chhattisgarh	4000
26	Kanchanpur, Sarguja district	Chhattisgarh	4000
27	Chirmi , district Koria	Chhattisgarh	4000
28	Ponri, district Koria	Chhattisgarh	4000
		Sub Total	75,300

V. Sites Identified by CMPDI near Load centre

S. No.	Name of the Project/Site	State	Capacity (MW)
1	Dabra, Gwalior	Madhya Pradesh	2000
2	Madankhurd(Matatila N), Pichor, Shivpuri	Madhya Pradesh	2000
3	Khirkal(Matatila W), Picchor ,Shivpuri	Madhya Pradesh	2000
4	Bamblabel,(Pachor), Rajgarh	Madhya Pradesh	2000
5	Kaner (Biaora) Rajigarh	Madhya Pradesh	2000
6	Surajpur (Shajapur),	Madhya Pradesh	2000
7	Jagatpura(Barwah), Barwad, Khargon (West Nimar)	Madhya Pradesh	2000
8	Satajana(Baroud), Khargon (West Nimar)	Madhya Pradesh	2000
9	Kanera(Halali),Bhopal	Madhya Pradesh	2000

10	Piplod(Balwada),Khandwa	Madhya Pradesh	2000
11	Jalmana, PanipatKarnal,	Haryana	1000
12	Bhagana,Hansi,Hisar	Haryana	2000
13	Churaud,Matgali,Hisar	Haryana	2000
14	Chaudriwas, Matgali,Hisar	Haryana	2000
15	MadhoSinghania, Sirsa	Haryana	2000
16	Chilknidhab,Sirsa	Haryana	2000
17	Sonik, Bichiya ,Unnao	Uttar Pradesh	2000
18	Shahganj, Jaunpur	Uttar Pradesh	2000
19	Sandila, Hardoi	Uttar Pradesh	2000
20	Pihani (Hariyawan),Hardoi	Uttar Pradesh	2000
21	Haliyapur, Sultanpur	Uttar Pradesh	2000
22	Pure Kalhans/ Amaniganj, Rudauli, Faizabad	Uttar Pradesh	2000
23	Harringtonganj, Milkipur,Faizabad	Uttar Pradesh	2000
24	Bagowal,Balachaur, ShahidBhagat Singh Distt	Punjab	2000
25	Mumaru,Faridkot, Ferozepur Distt	Punjab	2000
		Sub Total	49,000

VI. Coastal Sites identified by CMPDI

1	Divigi, Ankola , Uttar Kannda	Karnataka	4000
2	Honavar, Uttar Kannda	Karnataka	4000
		Sub Total	8000

VII Sites identified by Site Selection Committee

S. No.	Name of the Project/Site	State	Capacity (MW)
1.	New Ennore (TiruvalloreDistt.)	Tamil Nadu	2x500=1000
2.	TuticorinAnnexe (TuticorinDistt.)	Tamil Nadu	1x500=500
3.	Cheyyur (Kanchipuram Distt.)	Tamil Nadu	4000
4.	Cuddalore (CuddaloreDistt.)	Tamil Nadu	4000
5.	Cuddalore Mega Project (CuddaloreDistt.)	Tamil Nadu	1500
6.	Nagapattinam (TanjoreDistt.)	Tamil Nadu	2000-3000
7	Marakkanam,Villupuram	Tamil Nadu	4000
8	Thirumullavasal village, Sirkazi,Nagapattinam	Tamil Nadu	2000
9.	Karaikal	Pondicherry	1000
10.	Pipavav imported Coal based power project	Gujarat	2x500
11.	Pipavav Dual fuel based power project	Gujarat	1x615
12.	Chhara LNG/Naphtha based power project	Gujarat	1200
13.	Sarkhadi Coastal power project	Gujarat	2x500
14.	Mundra imported coal based power project	Gujarat	1x500
15.	Kandla imported coal based power project	Gujarat	1x250
16.	Dholera (Bhavanagar)	Gujarat	4000
17.	Krishnapatnam TPP (Nellore Distt.)	Andhra Pradesh	3000
18.	Simhadri TPP Extn.	Andhra Pradesh	2x500
19.	Hyderabad Metro CCGT	Andhra Pradesh	1400
20.	Vemagiri CCGT (East GodavariDistt.)	Andhra Pradesh	700
21.	Nellore CCGT in place of existing 30 MW Nellore TPS	Andhra Pradesh	700
22.	Godavari CCGT Extn.	Andhra Pradesh	1000
23.	KhaperkhedaExtn. (NagpurDistrict)	Maharashtra	1x500=500
24.	Umred (Nagpur District)	Maharashtra	2x250=500
25.	Wani (Yavatmal District)	Maharashtra	2x500=1000
26.	Mauda	Maharashtra	2x500=1000
27.	BhusawalExtn.(JalgaonDistt.)	Maharashtra	2x500=1000
28.	UranExtn.	Maharashtra	440
29.	Malvan(SindhudurgDistt)	Maharashtra	4000
30.	Solapur	Maharashtra	1320

31.	Solapur	Maharashtra	1000(CCGT)
32.	Manoravillage,TirodaTaluka,Gonndia		2x660
33.	Kanpa village, Naghbir Taluka, Chandrapur		2x660
34.	Mandkivillage,BrahmpuriTaluka,Chandrapur		2x660
35.	Tembhivillage,Ausa Taluka, Latur		1500(CCGT)
36.	Sasan (Sidhi District)	Madhya Pradesh	4x500=2000
37.	Bansagar (Shadol District)	Madhya Pradesh	3x500=1500
38.	Shahpura (Jabalpur District)	Madhya Pradesh	2x500=1000
39.	Rajghat (near ChanderiGuna District)	Madhya Pradesh	2x500=1000
40.	Malwa (Khandwa District)	Madhya Pradesh	4x500=1000
41.	Durgapur Steel TPP (BurdhmanDistt.)	DVC Area West Bengal	2x500
42	Maithon Left Bank TPP (BurdhmanDistt.)	DVC Area, West Bengal	2x500
43.	Panchet Coal based TPP	DVC Area, West Bengal	3x500
44.	Bokaro Steel TPP (BokaroDistt.)	DVC Area, Jharkhand	2x500
45.	Ramgarh TPP	DVC Area, Jharkhand	4x500
46.	KodarmaTPP (KodarmaDistt.)	DVC Area, Jharkhand	4x500
47.	Kota TPS Stage-V, Unit-7	Rajasthan	1x195
48.	Keshoraipatan (Distt.Bundi)	Rajasthan	1x500
49.	Chhabra Mega Project (BaranDistt.)	Rajasthan	1000
50.	Dholpur Gas based power plant stage-II	Rajasthan	1x330
51.	Dholpur Mega gas based power plant	Rajasthan	1000
52.	GiralExtn.lignite based power plant	Rajasthan	1x125
53.	KapurdiExtn. Lignite based power plant	Rajasthan	2x250
54.	Jalipa lignite based power plant	Rajasthan	1000
55.	Gurha (West) lignite based power plant	Rajasthan	2x125
56.	Marwa TPP (Distt. Raigarh)	Chhattisgarh	2x500
57.	Dumarpal TPP (Distt. Raigarh)	Chhattisgarh	2x500
58.	Akaltara TPP (Distt. Janjgir-Champa)	Chhattisgarh	4x800
59.	Bhaiyathan TPP (Distt. Surguja)	Chhattisgarh	2x660
60.	Lara (NTPC site)	Chhattisgarh	1000
61.	Udaipur	Chhattisgarh	4000
62	Korba East TPP – Daewoo site	Chhattisgarh	1000
63.	Korba East Extn. TPP	Chhattisgarh	2x250
64.	Korba West Extn.TPP	Chhattisgarh	2x250
65.	LancoAmarkantak site near Pathadi	Chhattisgarh	1200
66.	Doraha	Punjab	1000-2000
67.	Nabha (Patiala Distt.)	Punjab	1000-2000
68.	Banwala (TalwandiSaboo) (Mansa Distt.)	Punjab	2x500
69.	Lehra gaga (Sangrur Distt.)	Punjab	2x500
70.	Dhuri (Sangrur Distt.)	Punjab	1000-2000
71.	Bhupal (Mansa Distt.)	Punjab	2000
72.	Hajipur, Hoshiarpur	Punjab	2x660=1320
73.	Rajpura (Patiala)	Punjab	1000-2000
74	Ghagga (Muktsar)	Punjab	3000
75	Hissar	Haryana	1200
76	Jharli (JhajjarDistt.)	Haryana	1000
77	Kamlang (AngulDistt.)	Orissa	2000-3000
78	Abandoned FCI Plant at Talcher	Orissa	2000
79	Nuni (DhenkanalDistt.)	Orissa	2000-3000
80	Gajmara (DhenkanalDistt).	Orissa	5000
81	Hirma (JharsugudaDistt.)	Orissa	2000-3000
82	Bhedabahal (SundargarhDistt.)	Orissa	3000
83	Bhasma (Sundargarh/JharsugudaDistt.)	Orissa	3000-4000
84	Talsara (SundargarhDistt.)	Orissa	2000
85	Rengali (Sambalpur Distt.)	Orissa	2000
86	Durgapur (AngulDistt.)	Orissa	2000
		Sub-Total	1,31,225

B. Gas Based Sites identified by CMPDI

1.	Jhajjar	Haryana	3000
2.	Chandeni, Tehsil Nuh,GurgaonDistt	Haryana	3000
3.	Bajraka, Tehsil Nuh,GurgaonDistt	Haryana	3000
4.	Tappal, Khair Tehsil, Aligarh District	Uttar Pradesh	3000
5.	PadamNagla, Khair Tehsil, Aligarh District	Uttar Pradesh	3000
6.	Gangaoli, Khurja, Bulandshar	Uttar Pradesh	3000
7.	Gangerwa,Bulandshahr	Uttar Pradesh	3000
8.	Chaulas,Dadri, Ghaziabad	Uttar Pradesh	3000
		Sub Total	24,000

GRAND TOTAL **4,28,905 MW**

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1809
ANSWERED ON 20.12.2018

SAUBHAGYA SCHEME

1809. SHRI KUNWAR PUSHPENDRA SINGH CHANDEL:
SHRI PRAHLAD SINGH PATEL:

Will the Minister of POWER
be pleased to state:

(a) the salient feature of Saubhagya Scheme;

(b) the details of beneficiaries of Saubhagya Scheme in the country, State-wise including Bundelkhand;

(c) whether 274 villages have not been electrified even after the launch of Saubhagya Scheme if so, the details thereof along with the time by which these villages are likely to get the electricity; and

(d) the details of success of Saubhagya scheme?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) : Government of India launched the Pradhan Mantri Sahaj Bijli Har Ghar Yojana –"Saubhagya" with the objective to achieve universal household electrification by providing electricity connections to all households in rural and all poor households in urban areas by March, 2019. Under Saubhagya, Government of India gives funds to the States to the extent of 60% (85% for special category states) as grant. An additional grant of 15% (5% for special category states) is also available subject to achievement of 100% household electrification by 31st December, 2018.

(b) : As reported by the States, the status of state-wise households electrified since launch of Saubhagya scheme, till 16.12.2018 is at Annexure. As reported, Government of Uttar Pradesh and Madhya Pradesh, 65,47,307 and 19,84,264 connections to households have been released, respectively as on 16.12.2018, since the launch of Saubhagya, including those in Bundelkhand.

(c) : As informed by the States, all the inhabited census villages across the country stand electrified as on 28.04.2018.

(d) : As reported by the States, there are 21.73 crore households in the country; of these 20.79 crore households were electrified as on 30.11.2018 and remaining households are aimed for electrification by March, 2019.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1809 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Status of Households Electrification as reported by States

Sl. No.	Name of the State	Number of Households electrified since launch of Saubhagya (upto 16.12.2018)
1	Uttar Pradesh	65,47,307
2	Assam	11,16,278
3	Rajasthan	15,18,831
4	Jharkhand	12,53,096
5	Odisha	22,48,680
6	Karnataka	2,67,933
7	Meghalaya	50,965
8	Chhattisgarh	6,72,559
9	Nagaland	99,181
10	Arunachal Pradesh	13,964
11	Maharashtra	10,19,156
12	Manipur	1,02,224
13	Sikkim	14,088
14	Himachal Pradesh	12,874
15	Haryana	52,774
16	Uttarakhand	2,10,975
17	Tripura	1,36,399
18	West Bengal	7,32,290
19	Mizoram	27,803
20	Telangana	4,42,315
21	Jammu & Kashmir	3,66,737
22	Bihar	32,59,041
23	Madhya Pradesh	19,84,264
25	Andhra Pradesh	1,53,705
27	Gujarat	41,317
28	Puducherry	912
29	Punjab	386
30	Tamil Nadu	2,170
	Total	2,23,48,224

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1813
ANSWERED ON 20.12.2018

ELECTRIFICATION OF VILLAGES

1813. SHRI VINAYAK BHAURAO RAUT:
SHRI ANANDRAO ADSUL:
SHRI ADHALRAO PATIL SHIVAJIRAO:
SHRI DHARMENDRA YADAV:

Will the Minister of POWER be pleased to state:

(a) whether the Union Government had claimed that 84% of rural households will have electricity connections till 2017;

(b) if so, the details thereof, Statewise;

(c) whether the Government has launched the "Saubhagya" scheme to provide connections to the remaining 3.4 crore unconnected households by 2019;

(d) if so, the number of households remained unconnected till October, 2018

(e) the names of the States which have provided electricity to all households; and

(f) the sources from which the funds are received to cover the rural households under the Saubhagya Scheme?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

(a) & (b) : As reported by the States, there are 21.73 crore households in the country; of these 18.66 crore households were electrified as on 10.10.2017. The details are given at Annexure-I.

(c) to (f) : Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – "Saubhagya" with the objective to achieve universal household electrification by providing electricity connections to all households in rural and all poor households in urban areas by March, 2019. Under Saubhagya, Government of India provides funds to the States to the extent of 60% (85% for special category states) as grant. An additional grant of 15% (5% for special category states) is also available subject to achievement of 100% household electrification by 31st December 2018. As on 31.10.2018, under the scheme 1.18 crore households remain un-electrified. The names of the States which have provided electricity to all households as reported by them is given at Annexure-II.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1813 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Status of Households Electrification as reported by States

Sl. No.	Name of the State	Total number of Households	Number of households electrified as on 10.10.2017
1	Andhra Pradesh	1,14,25,758	1,12,81,072
2	Arunachal Pradesh	3,05,547	2,55,185
3	Assam	65,15,583	46,11,773
4	Bihar	1,39,73,122	1,07,14,081
5	Chhattisgarh	56,56,770	49,55,330
6	Goa	1,28,208	1,28,208
7	Gujarat	1,14,14,532	1,13,73,215
8	Haryana	34,66,874	34,08,052
9	Himachal Pradesh	18,56,990	18,36,911
10	Jammu & Kashmir	24,39,547	20,72,861
11	Jharkhand	65,60,031	48,92,518
12	Karnataka	1,02,57,659	97,67,245
13	Kerala	98,13,032	98,13,032
14	Madhya Pradesh	1,26,21,007	1,06,36,743
15	Maharashtra	2,42,49,145	2,33,03,595
16	Manipur	4,53,047	3,48,410
17	Meghalaya	6,20,082	4,35,963
18	Mizoram	2,41,682	2,13,909
19	Nagaland	4,31,123	3,02,267
20	Odisha	96,02,597	72,00,359
21	Puducherry	95,616	94,704
22	Punjab	36,89,970	36,89,584
23	Rajasthan	1,29,44,395	1,08,59,210
24	Sikkim	80,498	71,203
25	Tamil Nadu	1,02,85,848	1,02,83,678
26	Telangana	65,15,907	60,84,656
27	Tripura	7,88,787	6,52,463
28	Uttar Pradesh	3,38,50,906	2,12,06,385
29	Uttarakhand	20,44,596	18,44,305
30	West Bengal	1,50,57,882	1,43,25,592
	Total	21,73,86,741	18,66,62,509

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PARTS (c) TO (f) OF UNSTARRED QUESTION NO. 1813 ANSWERED IN THE LOK SABHA ON 20.12.2018.

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Name of the States which have provided electricity to all households

Sl. No.	Name of the State
1	Andhra Pradesh
2	Bihar
3	Goa
4	Gujarat
5	Haryana
6	Himachal Pradesh
7	Jammu & Kashmir
8	Kerala
9	Madhya Pradesh
10	Mizoram
11	Puducherry
12	Punjab
13	Sikkim
14	Tamil Nadu
15	Telangana
16	Tripura
17	Uttarakhand
18	West Bengal

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