

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
STARRED QUESTION NO.180  
ANSWERED ON 10.12.2015**

**ASSISTANCE TO SEBs**

**\*180. SHRI B. VINOD KUMAR:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the present status of restructuring/unbundling of State Electricity Boards (SEBs);**
- (b) whether requests for financial assistance have been received from the State Governments for restructuring and revival of SEBs, if so, the details thereof;**
- (c) whether any scheme has been formulated to assist SEBs facing financial crisis and are unable to purchase coal or generate electricity and if so, the details thereof along with corrective action taken thereon; and**
- (d) the steps being taken to achieve the goal of uninterrupted power supply to consumers in co-ordination with State Governments?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

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

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## STATEMENT

### STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO.180 ANSWERED IN THE LOK SABHA ON 10.12.2015 REGARDING ASSISTANCE TO SEBs.

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(a) : In all the States, State Electricity Boards (SEBs) have been restructured.

(b) : No requests for financial assistance have been received from the State Governments for restructuring and revival of SEBs.

(c) : The Central Government had approved and notified in October, 2012, a Financial Restructuring Plan (FRP) for the State owned Discoms to enable their financial turnaround with some conditions in term of achievements. However, as the scheme could not achieve the stated objective, Government of India has on 20.11.2015 launched another scheme – UDAY (Ujwal DISCOM Assurance Yojana) for operational and financial turnaround of DISCOMs. The scheme provides for taking over of DISCOM debt by the States outside the Fiscal Responsibility & Budget Management (FRBM) limits; reduction in the cost of power through various measures such as coal linkage rationalization, liberal coal swaps, coal price rationalization, correction in coal grade slippage, allocation of coal linkages at notified prices and reduction in interest burden etc.

(d) : To achieve the goal of uninterrupted power supply to consumers, the steps being taken in co-ordination with State Governments are as under:

- (i) Capacity addition of 1,18,537 MW (including 88,537 MW conventional and 30,000 MW renewable) during the 12<sup>th</sup> Plan, i.e. by 2016-17.
- (ii) Construction of 1,07,440 ckm transmission lines and setting up of 2,82,740 MVA transformation capacity during the 12<sup>th</sup> Plan, i.e. by 2016-17.
- (iii) Preparation of State specific Action Plans for providing 24X7 Power For All (PFA) in partnership with the States.
- (iv) Strengthening of sub-transmission and distribution networks and segregation of agricultural feeders to give adequate and reliable supply and reduce line losses through new schemes of Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and Integrated Power Development Scheme (IPDS).
- (v) Promotion of energy conservation, energy efficiency and other demand side management measures.
- (vi) Expeditious resolution of issues for facilitating early completion of generation and transmission projects.
- (vii) Providing support from Power System Development Fund (PSDF) for stranded gas based generation.

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1844  
ANSWERED ON 10.12.2015**

**ENERGY MANAGEMENT SYSTEM FOR MSME**

**1844. SHRI ABHISHEK BANERJEE:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether the Government has framed guidelines for simplified Energy Management System for the Micro, Small and Medium Enterprises (MSMEs) in the country;**
- (b) if so, the details thereof;**
- (c) whether the Government provides special benefits to MSME's who have simplified Energy Management System; and**
- (d) if so, the details thereof?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) : No, Madam.**

**(b) : Does not arise.**

**(c) & (d) : As intimated by Ministry of Micro, Small and Medium Enterprises (MSMEs), Government of India is implementing a Scheme under National Manufacturing Competitiveness Programme (NMCP) in the name of "Technology and Quality Upgradation Support to MSME (TEQUP)" to support units which intend to implement energy efficient and eco-friendly technology. Under the scheme, the Government provides financial support to the extent of 25% of the project cost towards implementation of Energy Efficient Technology (EET), subject to maximum of Rs.10.00 lakhs. Government has entered into MoU with Nationalized Banks namely SIDBI, Punjab National Bank (PNB), State Bank of India (SBI), Bank of Baroda, State Bank of Bikaner and Jaipur (SBBJ), Canara Bank and Bank of India to implement the scheme.**

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**GOVERNMENT OF INDIA  
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**LOK SABHA  
UNSTARRED QUESTION NO.1860  
ANSWERED ON 10.12.2015**

**ENERGY SECURITY**

**1860. SHRIMATI VANAROJA R.:  
SHRI S.R. VIJAYAKUMAR:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether the Government is working towards energy security and power for all by 2019 and if so, the details thereof;**
- (b) whether the Government is taking up major projects for enhancing transmission network, if so, the details thereof; and**
- (c) whether around 700 MW of power would be added to the southern transmission grid and if so, the details thereof?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) : Yes, Madam. Government is working towards ensuring energy security in the country through power generation, using a mix of various fuel resources. Based on demand projection of the 18<sup>th</sup> Electric Power Survey (EPS) carried out by Central Electricity Authority (CEA), generation capacity addition target of 88,537 MW has been planned from conventional sources during 12<sup>th</sup> Five Year Plan (2012-17). In addition, as per Ministry of New and Renewable Sources of Energy (MNRE), the capacity addition planned from Renewable sources is 30,500 MW during 12<sup>th</sup> Five Year Plan. With this capacity addition on all-India basis, the electricity demand projected by the 18<sup>th</sup> EPS is likely to be met by the terminal year of the 12<sup>th</sup> Five Year Plan.**

**.....2.**

**Government of India has taken a joint initiative with respective State Governments for preparation of State Specific Documents for providing 24x7 Power for all (PFA) to all. Government of India would only assist the State Governments in achieving this objective.**

**(b) : Yes, Madam. The Government is taking up major projects for enhancing Transmission networks. During 12th Plan i.e. by 2016-17, construction of 1,07,440 ckm transmission lines and setting up of 2,82,740 MVA transformation capacity was envisaged. As against this, 73,112 ckm of transmission lines and 2,13,969 MVA of transformation capacity have already been achieved till October, 2015.**

**(c) : With commissioning of 765 kV D/C Aurangabad – Solapur transmission line, 700 MW of additional transmission capacity has been added for the Southern grid.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1867  
ANSWERED ON 10.12.2015**

**DETAILS OF ACCIDENTS IN POWER PLANTS**

**†1867. SHRIMATI KAMLA DEVI PAATLE:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the details of accidents in various under-construction/operational power plants in the country including Chhattisgarh during each of the last three years, plant-wise including number of persons killed/injured/loss of property;**
- (b) the details of amount of compensation paid and facilities provided to persons injured and killed;**
- (c) the details of average annual expenditure incurred on maintenance of these plants during the said period; and**
- (d) the steps taken/likely to be taken by the Government to check recurrence of these accidents?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) to (d) : Information is being collected and will be laid on the Table of the House.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1869  
ANSWERED ON 10.12.2015**

**REPLACING STREET LIGHTS WITH LED BULBS**

**1869. SHRI RAJENDRA AGRAWAL:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether there is any proposal to replace all street lights of the country with LED bulbs;
- (b) if so, the details thereof;
- (c) whether any funds for implementation of the said programme have been allocated for States;
- (d) if so, the details thereof along with the details of funds so far released and utilized, State-wise; and
- (e) the time by which the targets of the said programme will be achieved?

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

(a) & (b) : The Hon'ble Prime Minister launched the Street Lighting National Programme (SLNP) on the 5<sup>th</sup> January, 2015 to convert all the conventional street lights with smart and energy efficient LED street lights. Energy Efficiency Services Ltd (EESL) has been designated as the nodal agency for the execution of this National level initiative.

**Details about the national level initiative is detailed as under:**

<b>No of street lights to be replaced</b>	<b>3.5 crore (approx.)</b>
<b>Expected annual energy savings</b>	<b>9000 million KWh (approx.)</b>
<b>Expected reduction of installed street light load</b>	<b>1500 MW (approx.)</b>
<b>Estimated capital investment(excluding O&amp;M)</b>	<b>Rs. 35,000 crore (approx.)</b>
<b>Annual estimated greenhouse gas emission reductions</b>	<b>6.2 million tonnes of CO<sub>2</sub> (approx.)</b>

**About 303 Urban Local Bodies (ULBs) from various states across country have enrolled for SLNP and LED street light installation in 23 ULBs have been completed in the States of Rajasthan, Andhra Pradesh and Tripura. As of 30<sup>th</sup> November, 2015, about 4.71 lakh LED street lights have been installed.**

**EESL Service Model for SLNP: EESL replaces the conventional street lights with LEDs at its own costs (without any need for municipalities to invest) and the consequent reduction in energy and maintenance cost of the municipality is used to repay EESL over a period of time. The contracts that EESL enters into with Municipalities are of 7 years duration where it not only guarantees a minimum energy saving but also provides free replacements and maintenance of lights at no additional cost to the municipality. The service model enables the municipalities to go in for state of the art street lights with no upfront capital cost and repayments to EESL are within the present level of expenditure. Thus, there is no additional revenue expenditure required to be incurred by the municipality for change over to smart and energy efficient LED street lights.**

**(c) & (d) : As indicated in the answer above, EESL implements the projects on commercial basis without any recourse to Central or State Government funding. The investments made by EESL in replacement of street lights are recovered over the project period through savings of energy and maintenance cost.**

**(e) : Target is to replace 3.5 crore street lights in the country with LED by March, 2019.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1871  
ANSWERED ON 10.12.2015**

**DELAY IN POWER PROJECTS**

**1871. DR. P. VENUGOPAL:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether power projects are facing cost over run due to delays in land acquisition, shortage of fuel and other problems;
- (b) if so, the details thereof along with action taken thereon; and
- (c) whether generation capacity has increased and is likely to increase, if so, the details thereof?

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) & (b) : Yes, Madam, some of the power projects are facing cost overrun due to various reasons such as delays in land acquisition, local agitations on land compensations, resettlement & rehabilitation issues, contractual problems, inter-state issues, geological surprises etc.**

**A total of 125 power projects are under construction in the country, out of which 84 are facing cost overrun. In order to ensure that the projects are timely commissioned, the Government is taking the following steps:-**

- Central Electricity Authority (CEA) is monitoring the progress of power projects (above 25 MW) and other projects including thermal continuously through site visits, interaction with the developers & other stakeholders to sort out the critical issues.**
- Power Project Monitoring Panel (PPMP), set up by the Ministry of Power, independently follows up and monitors the progress of the all projects under implementation. Chairperson, CEA holds review meetings with the PPMP and monitoring division of CEA.**
- Ministry of Power also reviews the progress of ongoing Hydro electric projects regularly with the concerned officers of CEA, equipment manufacturers, State Utilities / Central Public Sector Units / Project developers, etc.**

- **Expeditious resolution of issues relating to Environmental and forest clearances for facilitating early completion of generation and transmission projects.**
- **Enable availability of coal for power projects.**
- **Issues are also raised in PRAGATI, for proactive governance and timely implementation, as and when required.**

**(c) : The generation capacity increases in accordance with the increase in demand of electricity. Based on demand projections of 18th Electric Power Survey, an increase in generation capacity for 88,537 MW in the 12th Plan has been envisaged. A total capacity of 69,360 MW has been achieved in 12th Plan till November 2015.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1878  
ANSWERED ON 10.12.2015**

**CSR WORK BY NHPC**

**1878. SHRI C.S. PUTTA RAJU:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether NHPC is socially responsible for the development of those areas where its projects are under construction, if so, the details thereof;**
- (b) the details of social responsibilities discharged by NHPC in respect of different projects set up in the country including Karnataka; and**
- (c) the details of amount collected so far by NHPC under CSR along with the areas where the amount has been utilised during each of the last three years?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) to (c) : Yes, Madam. NHPC is carrying out Corporate Social Responsibility (CSR) activities for development of local areas around NHPC's Projects/Power Stations in accordance with NHPC's CSR Policy. State-wise details of CSR activities carried out by NHPC during the last three years is given in Annex-I and details of budget allocation and expenditure incurred on major CSR activities is given in Annex-II. NHPC does not have any Project in Karnataka and as such no CSR activities have been carried out by NHPC in Karnataka.**

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**ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1878 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**State wise/ District Wise Expenditure on CSR & Sustainability during last 03 Years**

S.N.	State	District	Amount in Lacs		
			FY 2012-13	FY 2013-14	FY 2014-15
1	Jammu & Kashmir	Jammu	35.86	36.25	127.19
		Reasi	44.78	96.95	81.44
		Kathua	53.03	93.50	62.29
		Kishwar	40.28	59.33	49.35
		Baramulla	36.04	82.40	15.25
		Kishenganga	19.31	61.77	109.49
		Kargil	19.47	49.02	85.16
		Leh	42.64	43.02	192.87
		Sub-Total	291.42	522.25	723.04
2	Himachal Pradesh	Chamba	203.48	168.94	153.83
		Mandi	41.28	85.05	72.89
		Kullu	24.99	35.99	25.83
		Sub-Total	269.75	289.98	252.55
3	Uttarakhand	Dehradun	0.00	1.50	0.00
		Tehri Garhwal	34.33	52.15	64.17
		Pithoragarh	25.94	14.77	86.37
		Champawat	43.35	63.02	29.33
		Sub-Total	103.62	131.43	179.87
4	West Bengal	Kolkata	0.00	1.02	0.00
		Jalpaiguri	31.82	42.05	325.45
		Darjeeling	141.58	919.47	315.44
		Sub-Total	173.39	962.54	640.89
5	Sikkim	South Sikkim	36.88	33.08	49.19
		East Sikkim	116.98	244.22	436.88
		Sub-Total	153.86	277.31	486.07
6	Manipur	Chura Chandpur	79.48	110.73	173.33
7	Assam	Dhemaji Lakimpur Sonitpur	229.59	519.50	2376.80
8	Arunachal Pradesh	Papum Pare	35.03	5.64	44.05
		Lower Dibang Valley	52.20	77.77	53.29
		Tawang	20.04	42.31	32.92
		Sub-Total	107.27	125.72	130.26
9	Other States	Faridabad (HR)	229.95	107.38	87.83
		Sant Kabir Nagar & Sidharth Nagar (UP)	0.00	69.80	173.30
		Pathankot	8.76	0.00	0.00
		Chandigarh	0.00	4.12	0.00
		Patna	12.63	52.21	0.00
		Port Blair	0.00	15.01	0.00
		Sub-Total	251.34	248.52	261.13
	<b>Grand Total</b>		<b>1659.72</b>	<b>3187.98</b>	<b>5223.94</b>

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**ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1878 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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<b>S. No.</b>	<b>Financial Year</b>	<b>Major Activity/Sector</b>	<b>Budget allocation (in Lacs)</b>	<b>Expenditure Incurred (in Lacs)</b>	<b>Total Expenditure (in Lacs)</b>
<b>1</b>	<b>2012-13</b>	<b>Education &amp; Skill Development i/c upgradation of ITIs</b>	<b>3117.00</b>	<b>443.94</b>	<b>1659.72</b>
		<b>Health &amp; Sanitation</b>		<b>179.27</b>	
		<b>Rural Development</b>		<b>686.58</b>	
		<b>Other Activities like Sports, Art &amp; Local Culture etc</b>		<b>263.34</b>	
		<b>Environment &amp; Sustainability</b>		<b>86.59</b>	
<b>2</b>	<b>2013-14</b>	<b>Education &amp; Skill Development i/c upgradation of ITIs</b>	<b>2400.00</b>	<b>1534.90</b>	<b>3187.98</b>
		<b>Health &amp; Sanitation</b>		<b>284.59</b>	
		<b>Rural Development</b>		<b>916.06</b>	
		<b>CSR Capacity Building and Other Activities like Sports, Art &amp; Local Culture etc.</b>		<b>317.28</b>	
		<b>Environment &amp; Sustainability</b>		<b>135.15</b>	
<b>3</b>	<b>2014-15</b>	<b>Education &amp; Skill Development i/c upgradation of ITIs</b>	<b>4764.00</b>	<b>1142.57</b>	<b>5223.94</b>
		<b>Health &amp; Sanitation</b>		<b>281.49</b>	
		<b>Rural Development</b>		<b>980.64</b>	
		<b>CSR Capacity Building and Other Activities</b>		<b>15.33</b>	
		<b>Swachh Vidyalaya Abhiyan</b>		<b>2308.23</b>	
		<b>Women Empowerment &amp; Senior Citizen</b>		<b>58.44</b>	
		<b>Environment &amp; Sustainability</b>		<b>354.55</b>	
		<b>Sports</b>		<b>47.04</b>	
		<b>Art &amp; Culture</b>		<b>35.65</b>	

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1905  
ANSWERED ON 10.12.2015**

**NATIONAL POWER TRAINING INSTITUTE (NPTI)**

**1905. SHRI K.C. VENUGOPAL:  
SHRI VENKATESH BABU T.G.:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether National Power Training Institute (NPTI) has been imparting training to the professionals of Central Public Sector Undertakings and State Electricity Undertakings since its establishment;
- (b) if so, the details thereof along with the number of persons trained during each of the last three years;
- (c) whether it is also proposed to expand its capacity in the coming years including overseas training and to set up regional institutes in some more States in the country and if so, the details thereof; and
- (d) the time by which National Power Training institute at Allappuzha is likely to be made operational along with the courses to be taught at the institute?

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

(a) & (b) : Yes, Madam. NPTI conducts several long-term, medium-term and short-term training programs in the areas of Thermal, Hydro, Transmission & Distribution, Management and Regulatory Affairs etc. and also, customized training programs for Central Public Sector Undertakings and State Electricity Undertakings. The details of such training programs conducted in the last three years and number of persons trained during each of the last three years are at Annex.

(c) & (d) : The Government has sanctioned two new power training institutes of NPTI, one each at Alappuzha, Kerala and Shivpuri, Madhya Pradesh in order to

enhance the capacity of National Power Training Institute (NPTI). The Institute at Alappuzha, Kerala has been sanctioned on 11<sup>th</sup> December, 2013 with a completion schedule of three years. The following courses are expected to be taught at the new Institute at Alappuzha, Kerala:

- **Post Graduate Engineers Course (Thermal),**
- **Post Graduate Engineers Course (Hydro),**
- **Post Diploma Course (Thermal),**
- **Post Diploma Course (Hydro),**
- **Post Graduate Course (O&M Transmission and Distribution system),**
- **Post Graduate Course (O&M Sub-Transmission and Distribution system),**
- **Various short term Courses in the areas of Power Generation, Transmission, Distribution, Regulatory Affairs, Commercial matters etc.,**
- **Various medium term courses in the areas of Power Generation, Transmission, Distribution, Regulatory Affairs, commercial matters etc.,**
- **Induction Training Program to Engineer Trainees of various organization of public sector and private sector,**
- **Various General Management Programs,**
- **Computer Applications,**
- **Operation of Simulators (Hydro), and**
- **Operation of Simulators (Thermal).**

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**ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1905 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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<b>Details of Training Programs of CPSUs / SEB for the Year 2012-13</b>			
<b>Sl. No.</b>	<b>Name of the Course</b>	<b>Name of Client Organization</b>	<b>No. of Trainees</b>
1	Induction Training, RRVUNL	RRVUNL	50
2	Promotional training program for Manager, DTL	DTL	9
3	Induction Training PGCIL	PGCIL	124
4	Induction Training program for NBPPPL, Noida	NBPPPL, Noida	20
5	Technical and Management Training for GETs of OTPC, Tripura	OTPC Tripura	7
6	Induction Training ETs of PGCIL	PGCIL	86
7	Induction-cum-Orientation Training – NHPC Executives	NHPC Ltd.	25
8	Induction-cum-Orientation Training – NHPC Executives	NHPC Ltd.	40
9	Induction-cum-Orientation Training – NHPC Executives	NHPC Ltd.	43
10	Residential Training program of Official of EDC Ballabhgarh, PGCIL	PGCIL	46
11	Technical & MGT training for GETs of OTPC, Tripura	OTPC Tripura	10
12	PPF – Sr. Executives from NHPC	NHPC Ltd.	10
13	Induction cum Orientation program for NHPC	NHPC Ltd.	59
14	Induction cum Orientation program for NHPC	NHPC Ltd.	32
15	L&D Training Program on Regulatory frame works of Indian Power Sector, POSOCO	POSOCO	43
16	L&D Training Program on regulatory frame works of Indian Power Sector, POSOCO	POSOCO	41
17	Power System Communication for DVC Engineers	DVC	10
18	Induction Program	PTCUL	23
19	Coal Mills & Milling System for NTPC	NTPC Ltd.	2
20	Operation & Mtce. of Thermal Power Plant-NTPC	NTPC Ltd.	18
21	Promotional Training Programme-DTL	DTL	20
22	Promotional Training Programme-DTL	DTL	23
23	Turbine & Turbine Auxiliaries in Power House-NALCO	NALCO	8
24	Scheme Turbine & its Auxiliaries Operation -HPGCL	HPGCL	8
25	Boiler & Boiler Auxiliaries in Power House -NALCO	NALCO	12
26	Condition Monitoring Tech. in Power System-NALCO	NALCO	16
27	Coal mill and mining system maintenance-HPGCL	HPGCL	7
28	Boiler and its auxiliaries-HPGCL-NALCO	HPGCL, NALCO	24
29	Maintenance of boiler rotary machine HPGCL	HPGCL	5
30	General Maintenance Practices of Major Electricals & Mechanical Equipments in Power Plant <sup>7</sup> -NALCO	NALCO	14
31	Ash Handling System in Power and Cooling Operation and Maintenance-NALCO	NALCO	24
32	Refreshers Training for Operators & Technicians (NALCO)	NALCO	19
33	Refreshers Training for Operators & Technicians (NALCO)	NALCO	40
34	250 MW simulator BBMB	BBMB	6
35	250 MW simulator BBMB	BBMB	15
36	250 MW simulator BBMB	BBMB	5
37	250 MW simulator BBMB	BBMB	8
38	250 MW simulator BBMB.	BBMB	6
39	500/600MW TPP for TANGEDCO	TANGEDCO	26
40	500/600MW TPP for TANGEDCO	TANGEDCO	45



41	Institutional training for graduate engineers of CSPTCL	CSPTCL	22
42	One week training on PID for trainees of MSETCL	MSETCL	14
43	Familiarization Training Programme on 400 kv cold lines for M/s.Power Grid – (NER,Guwahati&ER,Patna)- 8 <sup>th</sup> batch	POWEGRID	25
44	One week training on Punctured Insulator Detection for trainees of MSETCL	MSETCL	18
45	One week training on Punctured Insulator Detection for trainees of MSETCL	MSETCL	37
46	One week training on Punctured Insulator Detection for trainees of MSETCL	MSETCL	18
47	14 <sup>th</sup> On site Live Line Insulator Washing at MSETCL, Akola, Maharashtra.	MSETCL	20
48	15 <sup>th</sup> On site Live Line Insulator Washing at MSETCL, Kolhapur, Maharashtra.	MSETCL	22
49	6 Weeks training program on “Thermal Power Plant”	IL&FS-Tamil Nadu Power Company Limited & PPN Power Generating Company Pvt. Ltd.	10
50	2 Weeks Orientation training program in 500/600 MW Thermal Power Plants for the Assistant Engineer/Trainees of TANGEDCO, Tamil Nadu	TANGEDCO	53
51	2 Weeks Orientation training program in 500/600 MW Thermal Power Plants for the Assistant Engineer/Trainees of TANGEDCO, Tamil Nadu	TANGEDCO	55
52	2 Weeks Orientation training program in 500/600 MW Thermal Power Plants for the Assistant Engineer/Trainees of TANGEDCO, Tamil Nadu	TANGEDCO	48
53	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	10
54	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	13
55	2 Days short term training program on Operation & Maintenance of Coal Mills & Feeders” for NALCO	NALCO	10
56	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	10
57	6 Weeks Training program on “O&M of Thermal Power Plant” for the Engineers of NALCO	NALCO	12
58	O & M of Training Program on “Transformer and Circuit Breaker”- WBSETCL	WBSETCL	25
59	BPSCL Mgt. Trainees	BPSCL	3
60	BPSCL Mgt. Trainees	BPSCL	12
61	02 days workshop on “Boiler Tube Failure” by NPTI at DVC Training Institute, Chandrapura.	DVC	24
62	Customized Trg. Prog. for CSPGCL AEs	CSPGCL	79
63	Customized Trg. Prog. for CSPGCL JEs	CSPGCL	39
64	Orientation Trg. Program on 500/600 for TANGEDCO AEs	TANGEDCO	50
65	Hindi Uni-code Program at BSNL Office Nagpur.	BSNL	31
66	Hindi Uni-code Program	Hindusthan Petroleum Corpn, Nagpur	21
	<b>Total No. of Trainees</b>		<b>1710</b>

### Details of Training Programs of CPSUs / SEB for the Year 2013-14

S. No.	Name of the Course	Name of the Client Organization	No. of Trainees
1	Residential Training program for Junior Officers for SJVNL	SJVNL	34
2	Power System Reliability for POSOCO	POSOCO	29
3	Power System Reliability for POSOCO	POSOCO	30
4	Regulatory for State Distribution Companies R-APDRP, Part - C Capacity Building	State Distribution Companies	15
5	IT General R-APDRP, Part-C Capacity Building for State Distribution Company	State Distribution Companies	11
6	IT General R-APDRP, Part-C Capacity Building	State Distribution Companies	19
7	Induction Training program for XVIII Batch GETs from PGCIL	PGCIL	53
8	Learning & Development Training Program on Regulatory frame works for Indian Power Sector , POSOCO	POSOCO	26
9	AUTO CAD for NHPC	NHPC	20
10	VB.Net for NHPC	NHPC	28
11	Induction-cum-Orientation program for Graduate Engineer Trainees NHPC	NHPC	19
12	Refresher training program on Thermal Power Plant VSP	Vishakhapatnam Steel Plant	12
13	Regulatory framework in Power Sector POSOCO	POSOCO	15
14	Renewable Energy Generation-Concept to Commissioning for NHPC	NHPC	19
15	Power System Stability & Control for POSOCO	POSOCO	42
16	M. Tech. Engineers Batch from PGCIL	PGCIL	61
17	Seminar on Fundamentals of Power flow for POWERGRID Employee Development Centre, Hosur	PGCIL	25
18	Turbine & its Auxiliaries in Power House for NALCO	NALCO	16
19	Induction Training on Transmission & Distribution for RECPDCL	RECPDCL	17
20	Boiler and its Auxiliaries for NALCO	NALCO	34
21	Operation and Maintenance of Mills & Milling system for NALCO	NALCO	20
22	Operation & Maintenance Practices of Major Electrical/Mechanical Equipments in Power Plant for NALCO	NALCO	26
23	Refresher Course on Operation & Maintenance of Thermal Power Plants for NTPC	NTPC	20
24	Boiler & Auxiliaries for NALCO, Angul	NALCO	22
25	O&M Boiler & Auxiliaries for NALCO, Damanjodi	NALCO	12
26	O&M of Coal Handling Plant and Water Treatment Plant for NALCO, Angul	NALCO	27
27	O&M of Power System for PTCUL	PTCUL	30
28	O&M of Major Electrical /Mechanical Equipments for NALCO	NALCO	34
29	O&M of Power System for PTCUL	PTCUL	30
30	Information Technology and Hindi for Oriental Bank of Commerce	OBC	20
31	Information Technology and Hindi for Oriental Bank of Commerce	OBC	23

32	O&M of Ash Handling and Cooling Towers for NALCO	NALCO	23
33	O&M of Power System for PTCUL	PTCUL	30
34	Latest Trends in O&M of Thermal Power Stations for NALCO	NALCO	27
35	O&M of Power System for PTCUL, Uttarakhand	PTCUL	30
36	Steam Turbine & Auxiliaries for NALCO	NALCO	25
37	Customized training programme on Hydro Power for UJVNL	UJVNL	22
38	Customized training programme on Hydro Power for UJVNL	UJVNL	25
39	Customized training programme on Hydro Power for UJVNL	UJVNL	18
40	Erection of Distribution Systems for NHPC Engineers	NHPC	22
41	33/11 KV Switchgear System for NHPC Engineers	NHPC	21
42	One week training on Punctured Insulators Detectors for MSETCL	MSETCL	21
43	Live Line Maintenance Techniques using BSM up to 400 KV Lines for MSETCL	MSETCL	23
44	Electrostatic Precipitator for TAQA-NPCPL, RTPS, KPCL, NTPC	TAQA-NPCPL, RTPS, KPCL, NTPC	12
45	Power Plant Familiarization for IL & FS, TNPCL	TNPCL, IL&FS	20
46	On-site training prog. on Generator, Transformer & Switchyard for OPGCL	OPGCL	16
47	Familiarization of 500 MW TPS for DVC Koderma	DVC	13
48	Advanced Power Generation Tech. for DVC	DVC	20
49	Fundamentals of O&M Practices in TPS for DVC	DVC	24
50	Fundamentals of O&M Practices in TPS DVC	DVC	25
51	Familiarization of 500 MW TPS for DVC, Koderma	DVC	13
52	Familiarization of 500 MW TPS for DVC, Koderma	DVC	11
53	Familiarization of 500 MW TPS for DVC, Koderma	DVC	11
54	Familiarization of 500 MW TPS for DVC, Koderma	DVC	13
55	National Seminar on "EPSIPS" in association with POSOCO for WBSEDCL, DVC, IPCL, DPL, MPL, NSPCL, PCBL etc.	WBSEDCL, DVC, DPL, NSPCL etc.	120
56	Familiarization of 600 MW TPS for DVC, RTPS	DVC	16
57	Familiarization of 500 MW TPS for DVC, Koderma	DVC	17
58	Hindi Workshop for ASP, DSP, CMERI, MECON Ltd. DVC, CRPF etc.	ASP, DSP, CMERI, MECON Ltd. DVC, CRPF etc.	72
59	Familiarization of 500 MW TPS for DVC Koderma	DVC	12
60	Induction Training Program for Assistant Engineers from UPRVUNL	UPRVUNL	14
61	210 MW Simulator Training for UPRVUNL	UPRVUNL	14
62	Workshop on Hindi Unicode at BSNL	BSNL	29
63	Hindi - Unicode Program at Hindustan Petroleum Corpn. Ltd., Nagpur	Hindustan Petroleum Corporation Ltd.	65
64	Power Plant Chemistry for Operation Engineers of PSPCL, HPPCL, GIPCL, THDC	PSPCL, HPPCL, GIPCL, THDC	20
	<b>Total No. of Trainees</b>		<b>1633</b>

<b>Details of Training Programs of CPSUs / SEB for the Year 2014-15</b>			
<b>S. No.</b>	<b>Name of the Course</b>	<b>Name of client Organization</b>	<b>No. of Trainees</b>
1	Induction training program – PPF Hydro	Satluj Jal Vidyut Nigam Ltd.	40
2	Induction training program – PPF Hydro	Satluj Jal Vidyut Nigam Ltd.	43
3	Induction training program – PPF Hydro	Satluj Jal Vidyut Nigam Ltd.	41
4	Training program on ‘Distribution Systems’	Assam Power Distribution Ltd.	19
5	ABT and Power Trading	NHPC Ltd.	14
6	Electricity Act, CERC & SERC	NHPC Ltd.	18
7	Thermal Power Plant Engineering	NHPC Ltd.	16
8	Power System Economics	POSOCO - NLDC, RLDCs, SLDC's	27
9	Power System Reliability	POSOCO - NLDC, RLDCs, SLDC's	16
10	Refresher Training Program	NALCO	22
11	Refresher Training Program	NALCO	22
12	Specialized training program for System Operators	POSOCO - NLDC, RLDCs, SLDC's	16
13	DSM & Energy Efficiency	WESCO, MPKVVCL	26
14	Refresher Training Program	NALCO	28
15	Regulatory Framework in Power Sector	POSOCO - NLDC, RLDCs, SLDC's	30
16	Awareness Program on Labor Law	PGCIL, Gurgaon	48
17	Refresher Training Program	NALCO	28
18	Special Program for Diploma Engineers	NTPC Ltd.	19
19	Promotional Training Program	Delhi Transco Ltd.	37
20	Simulator training	Satluj Jal Vidyut Nigam Ltd.	11
21	Power System Protection	From different Utilities	15
22	High Voltage Testing of PSE	From different Utilities	17
23	Power System Reliability	From different Utilities	18
24	Management of electrical contracts	From different Utilities	15
25	Power System Reliability	From different Utilities	17
26	PSO	From different Utilities	35
27	PS communications SCADA & EMS	From different Utilities	22
28	O&M of Power&Distribution Transformers	From different Utilities	14
29	Power Quality Harmonics and Reactive Power Management	From different Utilities	19
30	Substation Planning & Engineering	From different Utilities	11
31	O&M of Transformers & Circuit breakers	From different Utilities	12

32	High voltage testing of PSE	From different Utilities	14
33	Power system operation	From different Utilities	24
34	96 <sup>th</sup> LLMT Using Hot Stick Method	MSETCL, KPTCL, MPPTCL, HVPNL	28
35	9th Familiarization Training programme on 400 KV Cold lines	KPTCL	21
36	10th Familiarization Training programme on 400 KV Cold lines	KPTCL	20
37	12th Switchyard maintenance Techniques using LLMT	APTRANSCO	28
38	33rd Capsule Course for Executives in Hot Line Activities	POWERGRID	14
39	20th Live Line Maintenance Techniques Using Bare Hand Methods(BHM) up to 400Kv Lines	TNEB, GETCO , MSETCL, APTRANSCO	29
40	O&M of Power Plants	NLC, Tuticorin	14
41	500 MW Power Plant Operation	NTPL, Tuticorin	13
42	“500MW Power Plant Familiarisation	NTPL, Tuticorin	11
43	Thermal Power Plant Familiarisation	MALCO Energy Ltd.	10
44	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	16
45	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	17
46	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	17
47	Adv. Training Prg. On 500 MW Thermal Power Station	WBPDC	17
48	O&M of Substation and Distribution System	BCCL	24
49	Adv. Training Prg. On 500 MW Tp. Statio	WBPDC	26
50	16 weeks competency Development for NEEPCO-1 <sup>st</sup> Batch	NEEPCO	16
51	03 weeks Training for Managers (Elect.) on” Substation Design and O&M” (MSPCL, Manipur)	MSPCL	15
52	Attitude Skill Development- NEEPCO- Liaison Officers -3rd Batch	NEEPCO	26
53	Boiler Water Chemistry & Steam Turbine Maintenance - (NEEPCO- On site)	NEEPCO	20
54	Training of Master Trainers on Demand Side Management and Energy Efficiency Under Capacity Building of DISCOMs Program	APDCL	21
55	Power Plant Familiarization	PSPCL	20
	<b>Total No. of Trainees</b>		<b>1177</b>

**Total No. of Trainees Trained from SEBs/ CPSUs in 2012-13 – 1710**

**Name of the SEBs /CPSUs**

- **BSNL**
- **Bhakra Beas Management Board**
- **Bokaro Power Supply Company Ltd.**
- **Chhattisgarh State Power Transmission Company Ltd**
- **Chhattisgarh State Power Generation Company Ltd**
- **Central Railways**
- **Delhi Transco Ltd.**
- **Damodar Valley Corporation**
- **Haryana Power Generation Corporation Ltd.**
- **Hindustan Petroleum Corporation Ltd.**
- **IL&FS Tamilnadu Power Company Ltd.**
- **Maharashtra State Electricity Transmission Company Ltd.**
- **NALCO, Odisha**
- **NHPC Ltd.**
- **NTPC Ltd.**
- **NTPC BHEL Power Projects Private Limited**
- **POSOCO**
- **Power Transmission Corporation of Uttarakhand Ltd.**
- **Power Grid Corporation of India Ltd.**
- **Rajasthan Rajya Vidyut Utpadan Nigam Ltd.**
- **TANGEDCo**
- **West Bengal State Electricity Transmission Company Ltd.**

**Total No. of Trainees Trained from SEBs/ CPSUs in 2013-14 – 1633**

**Name of the SEBs /CPSUs**

- **BSNL**
- **Central Board of Irrigation & Power**
- **Central Electricity Authority**
- **Central Excise & Customs, Nagpur**
- **Department of Atomic Energy**
- **Damodar Valley Corporation**
- **Forum of Regulators**
- **Himachal Pradesh Power Corporation Ltd.**
- **Hindustan Petroleum Corporation Ltd.**
- **IL&FS Tamilnadu Power Company Ltd.**
- **Gujarat industrial Power Corporation Ltd.**
- **Karnataka Power Corporation Ltd.**
- **Maharashtra State Electricity Transmission Company Ltd.**
- **MNRE**
- **MECON Ltd.**
- **NALCO, Odisha**
- **NHPC Ltd.**
- **NTPC Ltd.**
- **NTPC-SAIL Power Company Ltd.**
- **Odisha Power Generation Corporation Ltd.**
- **Oriental Bank of Commerce**
- **POSOCO**
- **Power Transmission Corporation of Uttarakhand Ltd.**
- **Power Grid Corporation of India Ltd.**
- **Punjab State Power Corporation Ltd.**
- **REC Power Distribution Company Ltd.**
- **Satluj Jal Vidyut Nigam Ltd.**
- **Tehri Hydro Development Corporation Ltd.**
- **UP Rajya Vidyut Utpadan Nigam Ltd.**
- **Uttarakhand Jal Vidyut Nigam Ltd.**
- **Vishakhapatnam Steel Plant**
- **West Bengal State Electricity Distribution Company Ltd.**

**Total No. of Trainees Trained from SEBs/ CPSUs in 2014-15 – 1177**

**Name of the SEBs /CPSUs**

- **Assam Power Distribution Company Ltd.**
- **Andhra Pradesh Transmission Company Ltd.**
- **BCCL**
- **Central Electricity Authority**
- **Delhi Transco Ltd.**
- **Haryana Vidyut Prasaran Nigam Ltd.**
- **Karnataka Power Transmission Company Ltd.**
- **Madhya Pradesh Power Transmission Company Ltd.**
- **Madhya Pradesh Madhya Kshetra Vidyut Vitran Company Ltd.**
- **Maharashtra State Electricity Transmission Company Ltd.**
- **Manipur State Power Company Ltd.**
- **Ministry of Power**
- **Madras Aluminium Company Limited**
- **NEEPCO Ltd.**
- **NALCO, Odisha**
- **Neyveli Lignite Corporation Ltd.**
- **NLC Tamilnadu Power Ltd.**
- **NHPC Ltd.**
- **NTPC Ltd.**
- **POSOCO**
- **Power Grid Corporation of India Ltd.**
- **Punjab State Power Corporation Ltd.**
- **Satluj Jal Vidyut Nigam Ltd.**
- **Tamil Nadu Electricity Board**
- **Western Electricity Supply Company Ltd., Orissa**
- **West Bengal Power Distribution Company Ltd.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1937  
ANSWERED ON 10.12.2015**

**OPEN ACCESS POLICY**

**†1937. SHRIMATI RAMA DEVI:  
SHRIMATI SAKUNTALA LAGURI:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the details with regard to the Open Access provisions contained in Electricity Act, 2003;**
- (b) whether open access provision is not being implemented in the country; (c) if so, the reasons therefor alongwith the various facilities being provided through this provision; and**
- (d) the details of assistance being provided under Open Access for preparing a competitive atmosphere?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) : Open Access has been defined in Section 2(47) of the Electricity Act, 2003. The provisions regarding Open Access to the consumers has been provided in Section 9(2), 38(2), 39(2), 40, 42(2) and 86(1). The relevant extracts of the provisions are at Annex.**

**(b) to (d) : Open Access to Inter-State and Intra-State transmission system is governed by different Regulations framed by the Central Electricity Regulatory Commission (CERC) and the State Electricity Regulatory Commissions (SERCs) respectively.**

**The Central Commission has notified the Central Electricity Regulatory Commission (Inter-State Open Access in Transmission) Regulations, 2008 and the Central Electricity Regulatory Commission (Grant of Connectivity, Long Term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009 to facilitate Open Access in inter-State transmission of electricity. Open Access at inter-state level is fully operational.**

**Over 3000 Open Access consumers are buying power through Power Exchanges. The details of Open Access availed on Inter State Transmission System during the last five years are given below:**

<b>Total (Bilateral + Collective)</b>	<b>No. of Transactions</b>	<b>Approved Energy (MUs)</b>
<b>2008-09</b>	<b>15414</b>	<b>30521</b>
<b>2009-10</b>	<b>18128</b>	<b>39457</b>
<b>2010-11</b>	<b>19883</b>	<b>55232</b>
<b>2011-12</b>	<b>24111</b>	<b>66987</b>
<b>2012-13</b>	<b>32088</b>	<b>73153</b>
<b>2013-14</b>	<b>33917</b>	<b>86973</b>
<b>2014-15</b>	<b>38053</b>	<b>80866</b>
<b>2015-16 (upto Oct., 2015)</b>	<b>28231</b>	<b>61701</b>

**(Source: POSOCO/NLDC)**

**Open Access at intra-state level remains the responsibility of SERCs. All the SERCs/JERCs have notified Open Access Regulations.**

**High level of cross subsidy in tariff, High levels of Open Access charges, cross-subsidy surcharges, lack of functional and financial autonomy of SLDCs, standby charges etc. are some of the factors reported to be responsible for slow pace of Open Access implementation at distribution level.**

**The provisions of Open Access in Electricity Act, 2003, regulations framed by CERC/SERCs etc. have ensured competitive environment through Open Access and have facilitated inter-State trading in electricity.**

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**ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO.1937 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**Different provisions regarding Open Access provided in the Electricity Act 2003**

**Section 2(47) Definition of Open Access :** “open access” means the non-discriminatory provision for the use of transmission lines or distribution system or associated facilities with such lines or system by any licensee or consumer or a person engaged in generation in accordance with the regulations specified by the Appropriate Commission;

**Section 9 Captive Generation :-**

**(2) Every person, who has constructed a captive generating plant and maintains and operates such plant, shall have the right to open access for the purposes of carrying electricity from his captive generating plant to the destination of his use:**

**Provided that such open access shall be subject to availability of adequate transmission facility and such availability of transmission facility shall be determined by the Central Transmission Utility or the State Transmission Utility, as the case may be:**

**Provided further that any dispute regarding the availability of transmission facility shall be adjudicated upon by the Appropriate Commission.**

**Section 38 (2) The functions of the Central Transmission Utility shall be –**

- (d) to provide non-discriminatory open access to its transmission system for use by-**
- (i) any licensee or generating company on payment of the transmission charges; or**
  - (ii) any consumer as and when such open access is provided by the State Commission under sub-section (2) of section 42, on payment of the transmission charges and a surcharge thereon, as may be specified by the Central Commission:**

**Provided also that such surcharge shall not be leviable in case open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use.**

**Section 39 (2) The functions of the State Transmission Utility shall be –**

- (d) to provide non-discriminatory open access to its transmission system for use by-**
- (i) any licensee or generating company on payment of the transmission charges ; or**
  - (ii) any consumer as and when such open access is provided by the State Commission under sub-section (2) of section 42, on payment of the transmission charges and a surcharge thereon, as may be specified by the State Commission:**

**Provided also that such surcharge shall not be leviable in case open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use.**

**Section 40. (Duties of transmission licensees): It shall be the duty of a transmission licensee-**

- (c) to provide non-discriminatory open access to its transmission system for use by-**
- (i) any licensee or generating company on payment of the transmission charges; or**
  - (ii) any consumer as and when such open access is provided by the State Commission under sub-section (2) of section 42, on payment of the transmission charges and a surcharge thereon, as may be specified by the State Commission:**

**Provided also that such surcharge shall not be leviable in case open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use.**

**Section 42 (Duties of distribution licensee and open access): ---**

**(2) The State Commission shall introduce open access in such phases and subject to such conditions, (including the cross subsidies, and other operational constraints) as may be specified within one year of the appointed date by it and in specifying the extent of open access in successive phases and in determining the charges for wheeling, it shall have due regard to all relevant factors including such cross subsidies, and other operational constraints:**

**Provided that such open access shall be allowed on payment of a surcharge in addition to the charges for wheeling as may be determined by the State Commission:**

**Provided further that such surcharge shall be utilised to meet the requirements of current level of cross subsidy within the area of supply of the distribution licensee:**

**Provided also that such surcharge and cross subsidies shall be progressively reduced in the manner as may be specified by the State Commission:**

**Provided also that such surcharge shall not be leviable in case open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use.**

**Provided also that the State Commission shall, not later than five years from the date of commencement of the Electricity (Amendment) Act, 2003, by regulations, provide such open access to all consumers who require a supply of electricity where the maximum power to be made available at any time exceeds one megawatt.**

**Functions of State Commission**

**Section 86: --- (1) The State Commission shall discharge the following functions, namely: -**

**(a) determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the State:**

**Provided that where open access has been permitted to a category of consumers under section 42, the State Commission shall determine only the wheeling charges and surcharge thereon, if any, for the said category of consumers;**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1948  
ANSWERED ON 10.12.2015**

**BBMB**

**1948. SHRI DUSHYANT SINGH:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether it is a fact that water from the Ranjeet Sagar Dam is not being released as per the allocation made by Bhakra Beas Management Board (BBMB);**
- (b) if so, the details thereof along with the action taken thereon;**
- (c) whether the Shahpur Kandi Barrage being constructed by the Punjab Government; and**
- (d) if so, the details thereof along with the measures being taken to ensure that it does not adversely affect the concerned States?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) to (d): Ranjit Sagar Dam (RSD) is an irrigation as well as a power generation project and the quantum of water release is determined on the basis of the irrigation needs of the beneficiary states. The release of water can be regulated either by operating the hydro power generating machines or by opening the gates of the dam. In order to utilize the full potential of power generation, discharge of water from the project is generally regulated by operating the hydro power generating machines. While all efforts are made to keep the actual discharge of water close to the approved discharges, sometimes the generating machines have to be operated keeping in view the immediate power requirement of the state which may result in some disparity in the actual discharge vis-a-vis the approved discharge. In order to regulate the flow of water beyond Ranjit Sagar Dam, a balancing reservoir is being constructed at Shahpurkandi by Punjab Government and Punjab State Power Corporation Ltd (PSPC). After completion of dam, the water downstream RSM can be managed in a more efficient manner as per the irrigation requirement of the beneficiary states.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1962  
ANSWERED ON 10.12.2015**

**NEW POWER PLANTS**

**†1962. SHRIMATI JYOTI DHURVE:**

**SHRI SHARAD TRIPATHI:**

**SHRI JASVANTSINH SUMANBHAI BHABHOR:**

**SHRI LAXMI NARAYAN YADAV:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the details of power projects undertaken in the country during Eleventh and Twelfth Plan along with their capacity including their current status and the steps taken to complete the under construction projects, State/UT/project-wise;**
- (b) the State/UT-wise details of projects whose capacity is proposed to be increased along with the action taken by the Government in this regard; and**
- (c) whether the Government intends to undertake more power projects in near future and if so, the details thereof?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) : The details of Thermal and Hydro power projects aggregating to 1,62,100.5 MW and 9,288 MW respectively, which were undertaken during Eleventh and Twelfth Plan along with their capacity including status of commissioning and construction, State/UT/project-wise is given at Annex.**

**The steps taken by the Government for timely commissioning of the thermal and hydro power projects are given below:**

- (i) Central Electricity Authority (CEA) monitors the progress of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers. CEA holds review meetings periodically with the developers and other stakeholders and identify issues critical for commissioning of projects and help in resolving them.**
- (ii) Regular reviews are also undertaken by Ministry of Power, Ministry of Heavy Industries and Cabinet Secretariat to identify the constraint areas and facilitate faster resolution of inter-ministerial and other outstanding issues.**

- (iii) A Power Project Monitoring Panel (PPMP) has been set up by the Ministry of Power for monitoring of on-going Thermal and Hydro Generation projects targeted for commissioning during the 12th Plan and beyond along with the associated transmission system.**
- (iv) Expeditious resolution of issues relating to Environmental and forest clearances.  
Issues are taken up with Ministries concerned to facilitate availability of coal for power projects.**
- (v) Issues are also raised in PRAGATI, for proactive governance and timely implementation, as and when required.**

**(b) & (c) : As per Section 7 of Electricity Act, 2003, any generating company may establish, operate and maintain a generating station without obtaining a licence/permission under this Act, if it complies with the technical standards relating to connectivity with the grid. Accordingly, sanction of the Government is not required for setting up of Thermal Power Projects. However, for setting up of hydro electric projects, the Detailed Project Reports (DPRs) are required to be submitted for concurrence of Central Electricity Authority (CEA).**

**Ten (10) Thermal Power Projects aggregating to installed capacity of 13,600 MW are proposed by Central Sector Utilities. In addition to this, forty-one (41) Hydro Electric Schemes aggregating to installed capacity of 25,678 MW are concurred by CEA. The twelve (12) identified Ultra Mega Power Projects each of 4000 MW (tentative) capacity, are also proposed to increase the capacity.**

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**ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1962 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**The details of Thermal and Hydro Power Projects which were undertaken during 11th and 12th Plan**

State	Project Name	Unit No.	Fuel	Sector	Capacity (MW)	Status
<b>CENTRAL SECTOR</b>						
<i>Andhra Pradesh</i>	Polavaram	(12x80)	Hydro	Central	960	Under Construction
<i>Arunachal Pradesh</i>	Pare (NEEPCO)	(2x55)	Hydro	Central	110	Under Construction
<i>Assam</i>	Bongaigaon TPP	U-1	Thermal	Central	250	Commissioned
<i>Assam</i>	Bongaigaon TPP	U-2	Thermal	Central	250	Under Construction
		U-3	Thermal	Central	250	Under Construction
<i>Bihar</i>	Barh STPP-II	U-4	Thermal	Central	660	Commissioned
		U-5	Thermal	Central	660	Commissioned
<i>Bihar</i>	Muzaffarpur TPP Exp	U-3	Thermal	Central	195	Commissioned
<i>Bihar</i>	Muzaffarpur TPP Exp	U-4	Thermal	Central	195	Under Construction
<i>Bihar</i>	Nabi Nagar TPP	U-1	Thermal	Central	250	Under Construction
		U-2	Thermal	Central	250	Under Construction
		U-3	Thermal	Central	250	Under Construction
		U-4	Thermal	Central	250	Under Construction
<i>Bihar</i>	New Nabi Nagar TPP	U-1	Thermal	Central	660	Under Construction
		U-2	Thermal	Central	660	Under Construction
		U-3	Thermal	Central	660	Under Construction
<i>Chhattisgarh</i>	Lara STPP	U-1	Thermal	Central	800	Under Construction
		U-2	Thermal	Central	800	Under Construction
<i>Haryana</i>	Indira Gandhi TPP	U-1	Thermal	Central	500	Commissioned
		U-2	Thermal	Central	500	Commissioned
		U-3	Thermal	Central	500	Commissioned
<i>Jammu &amp; Kashmir</i>	Kishanganga	(3x110)	Hydro	Central	330	Under Construction
<i>Jharkhand</i>	Koderma TPP	U-1	Thermal	Central	500	Commissioned
		U-2	Thermal	Central	500	Commissioned
<i>Jharkhand</i>	BokaroTPS "A"Exp.	U-1	Thermal	Central	500	Under Construction
<i>Jharkhand</i>	North Karanpura TPP	U-1	Thermal	Central	660	Under Construction
		U-2	Thermal	Central	660	Under Construction
		U-3	Thermal	Central	660	Under Construction
<i>Karnataka</i>	Kudgi STPP Ph-I	U-1	Thermal	Central	800	Under Construction
		U-2	Thermal	Central	800	Under Construction
		U-3	Thermal	Central	800	Under Construction
<i>Maharashtra</i>	Mouda TPP	U-1	Thermal	Central	500	Commissioned
		U-2	Thermal	Central	500	Commissioned
<i>Maharashtra</i>	Mouda STPP-II	U-3	Thermal	Central	660	Under Construction
		U-4	Thermal	Central	660	Under Construction
<i>Maharashtra</i>	Solapur STPP	U-1	Thermal	Central	660	Under Construction
		U-2	Thermal	Central	660	Under Construction
<i>MP</i>	Vindhyachal TPP-IV	U-11	Thermal	Central	500	Commissioned
		U-12	Thermal	Central	500	Commissioned
<i>MP</i>	Vindhyachal TPP-V	U-13	Thermal	Central	500	Commissioned
<i>MP</i>	Gadarwara STPP	U-1	Thermal	Central	800	Under Construction
		U-2	Thermal	Central	800	Under Construction
<i>MP</i>	Khargone TPP	U-1	Thermal	Central	660	Under Construction
		U-2	Thermal	Central	660	Under Construction
<i>Orissa</i>	Darlipali STPP	U-1	Thermal	Central	800	Under Construction
		U-2	Thermal	Central	800	Under Construction
<i>TN</i>	Tuticorin JV	U-1	Thermal	Central	500	Commissioned
		U-2	Thermal	Central	500	Commissioned
<i>TN</i>	Vallur TPP Ph I	U-1	Thermal	Central	500	Commissioned
		U-2	Thermal	Central	500	Commissioned
<i>TN</i>	Vallur TPP-II	U-3	Thermal	Central	500	Commissioned
<i>Tripura</i>	Agartala CCPP	ST-2	Thermal	Central	25.5	Commissioned
<i>Tripura</i>	Monarchak CCPP	GT	Thermal	Central	65.4	Commissioned
<i>Tripura</i>	Tripura Gas	Module-1	Thermal	Central	363.3	Commissioned
		Module-2	Thermal	Central	363.3	Commissioned
<i>Tripura</i>	Agartala CCPP	ST-1	Thermal	Central	25.5	Under Construction
<i>Tripura</i>	Monarchak CCPP	ST	Thermal	Central	35.6	Under Construction
<i>UP</i>	Rihand STPS- III	U-5	Thermal	Central	500	Commissioned
		U-6	Thermal	Central	500	Commissioned
<i>UP</i>	Meja STPP	U-1	Thermal	Central	660	Under Construction
		U-2	Thermal	Central	660	Under Construction



<b>UP</b>	<b>Tanda TPS -II</b>	<b>U-1</b>	<b>Thermal</b>	<b>Central</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Central</b>	<b>660</b>	<b>Under Construction</b>
<b>UP</b>	<b>Unchahar TPS St-IV</b>	<b>U-6</b>	<b>Thermal</b>	<b>Central</b>	<b>500</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Tehri PSS</b>	<b>(4x250)</b>	<b>Hydro</b>	<b>Central</b>	<b>1000</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Lata Tapovan</b>	<b>(3x57)</b>	<b>Hydro</b>	<b>Central</b>	<b>171</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Vishnugad Pipalkoti</b>	<b>(4x111)</b>	<b>Hydro</b>	<b>Central</b>	<b>444</b>	<b>Under Construction</b>
<b>WB</b>	<b>Durgapur Steel TPS</b>	<b>U-1</b>	<b>Thermal</b>	<b>Central</b>	<b>500</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Central</b>	<b>500</b>	<b>Commissioned</b>
<b>WB</b>	<b>Raghunathpur TPP, Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Central</b>	<b>600</b>	<b>Commissioned</b>
<b>WB</b>	<b>Raghunathpur TPP Ph-II</b>	<b>U-1</b>	<b>Thermal</b>	<b>Central</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Central</b>	<b>660</b>	<b>Under Construction</b>
<b>WB</b>	<b>Raghunathpur TPP, Ph-I</b>	<b>U-2</b>	<b>Thermal</b>	<b>Central</b>	<b>600</b>	<b>Under Construction</b>
<b>WB</b>	<b>Rammam-III</b>	<b>(3x40)</b>	<b>Hydro</b>	<b>Central</b>	<b>120</b>	<b>Under Construction</b>
<b>STATE SECTOR</b>						
<b>AP</b>	<b>Damodaram Sanjeevaiah TPS</b>	<b>U-1</b>	<b>Thermal</b>	<b>State</b>	<b>800</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>State</b>	<b>800</b>	<b>Commissioned</b>
<b>AP</b>	<b>Rayalseema TPP St-III</b>	<b>U-5</b>	<b>Thermal</b>	<b>State</b>	<b>210</b>	<b>Commissioned</b>
<b>AP</b>	<b>Rayalseema St-IV U-6</b>	<b>U-6</b>	<b>Thermal</b>	<b>State</b>	<b>600</b>	<b>Under Construction</b>
<b>Assam</b>	<b>Namrup CCGT</b>	<b>GT</b>	<b>Thermal</b>	<b>State</b>	<b>70</b>	<b>Under Construction</b>
		<b>ST</b>	<b>Thermal</b>	<b>State</b>	<b>30</b>	<b>Under Construction</b>
<b>Bihar</b>	<b>Barauni TPS Extn</b>	<b>U-8</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Under Construction</b>
		<b>U-9</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Korba West St-III.</b>	<b>U-5</b>	<b>Thermal</b>	<b>State</b>	<b>500</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Marwa TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>State</b>	<b>500</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Marwa TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>State</b>	<b>500</b>	<b>Under Construction</b>
<b>Delhi</b>	<b>Pragati CCGT - III</b>	<b>GT-1</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
		<b>GT2</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
		<b>GT-3</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
		<b>GT-4</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
		<b>ST-1</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
		<b>ST-2</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Dhuvaran CCGT-III</b>	<b>Block-1</b>	<b>Thermal</b>	<b>State</b>	<b>376.1</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Hazira CCGT Extn.</b>	<b>GT+ST</b>	<b>Thermal</b>	<b>State</b>	<b>351</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Pipavav CCGT</b>	<b>Block-1</b>	<b>Thermal</b>	<b>State</b>	<b>351</b>	<b>Commissioned</b>
		<b>Block-2</b>	<b>Thermal</b>	<b>State</b>	<b>351</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Sikka TPS Extn.</b>	<b>U-3</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Ukai TPP Extn.</b>	<b>U-6</b>	<b>Thermal</b>	<b>State</b>	<b>500</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Utran CCGT Extn</b>	<b>GT</b>	<b>Thermal</b>	<b>State</b>	<b>240</b>	<b>Commissioned</b>
		<b>ST</b>	<b>Thermal</b>	<b>State</b>	<b>134</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Bhavnagar CFBC TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Under Construction</b>
<b>Gujarat</b>	<b>Wankbori TPS Extn</b>	<b>U-8</b>	<b>Thermal</b>	<b>State</b>	<b>800</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Swara Kuddu</b>	<b>(3x37)</b>	<b>Hydro</b>	<b>State</b>	<b>111</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Sainj</b>	<b>(2x50)</b>	<b>Hydro</b>	<b>State</b>	<b>100</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Kashang -I</b>	<b>(1x65)</b>	<b>Hydro</b>	<b>State</b>	<b>65</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Kashang -II &amp; III</b>	<b>(2x65)</b>	<b>Hydro</b>	<b>State</b>	<b>130</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Shongtong Karcham</b>	<b>(3x150)</b>	<b>Hydro</b>	<b>State</b>	<b>450</b>	<b>Under Construction</b>
<b>Jammu &amp; Kashmir</b>	<b>Baglihar- II (JKPDCL)(3x150)</b>		<b>Hydro</b>	<b>State</b>	<b>450</b>	<b>Commissioned</b>
<b>Karnataka</b>	<b>Bellary TPP St-III</b>	<b>U-3</b>	<b>Thermal</b>	<b>State</b>	<b>700</b>	<b>Under Construction</b>
<b>Karnataka</b>	<b>Yermarus TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>State</b>	<b>800</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>State</b>	<b>800</b>	<b>Under Construction</b>
<b>Kerala</b>	<b>Thottiyar (KSEB)</b>	<b>(1x30+1x10)</b>	<b>Hydro</b>	<b>State</b>	<b>40</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Chandrapur TPS Extn.</b>	<b>U-8</b>	<b>Thermal</b>	<b>State</b>	<b>500</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Koradi TPS Expn.</b>	<b>U-8</b>	<b>Thermal</b>	<b>State</b>	<b>660</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Chandrapur TPS Extn.</b>	<b>U-9</b>	<b>Thermal</b>	<b>State</b>	<b>500</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Koradi TPS Expn.</b>	<b>U-10</b>	<b>Thermal</b>	<b>State</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-9</b>	<b>Thermal</b>	<b>State</b>	<b>660</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Parli TPS Expn.</b>	<b>U-8</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Koyna Left Bank</b>	<b>(2x40)</b>	<b>Hydro</b>	<b>State</b>	<b>80</b>	<b>Under Construction</b>
<b>MP</b>	<b>Malwa TPP ( Shree Singa ji TPP)</b>	<b>U-1</b>	<b>Thermal</b>	<b>State</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>State</b>	<b>600</b>	<b>Commissioned</b>
<b>MP</b>	<b>Satpura TPS Extn</b>	<b>U-10</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
		<b>U-11</b>	<b>Thermal</b>	<b>State</b>	<b>250</b>	<b>Commissioned</b>
<b>MP</b>	<b>Shree Singaji TPP Phase-II</b>	<b>U-3</b>	<b>Thermal</b>	<b>State</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>State</b>	<b>660</b>	<b>Under Construction</b>

Meghalaya	New Umtru (MePGCL)	(2x20)	Hydro	State	40	Under Construction
Orissa	IB Valley TPP	U-3	Thermal	State	660	Under Construction
		U-4	Thermal	State	660	Under Construction
Punjab	Shahpurkandi	(3x33+3x33+1x8)	Hydro	State	206	Under Construction
Rajasthan	Chhabra TPS Extn	U-3	Thermal	State	250	Commissioned
		U-4	Thermal	State	250	Commissioned
Rajasthan	Kalisindh TPP	U-1	Thermal	State	600	Commissioned
		U-2	Thermal	State	600	Commissioned
Rajasthan	Ramgarh CCPP Extn. -III	GT	Thermal	State	110	Commissioned
		ST	Thermal	State	50	Commissioned
Rajasthan	Chhabra Super Critical TPP	U-5	Thermal	State	660	Under Construction
		U-6	Thermal	State	660	Under Construction
Rajasthan	Suratgarh TPS	U-7	Thermal	State	660	Under Construction
		U-8	Thermal	State	660	Under Construction
Telangana	Bhadradi TPP ( Manuguru)	U-1	Thermal	State	270	Under Construction
		U-2	Thermal	State	270	Under Construction
		U-3	Thermal	State	270	Under Construction
		U-4	Thermal	State	270	Under Construction
Telangana	Kakatiya TPS Extn	U-1	Thermal	State	600	Under Construction
Telangana	Kothagudem TPS St-VII	U-1	Thermal	State	800	Under Construction
Telangana	Singareni TPP	U-1	Thermal	State	600	Under Construction
		U-2	Thermal	State	600	Under Construction
Telangana	Lower Jurala	(6x40)	Hydro	State	160	Under Construction
Telangana	Pulichintala	(4x30)	Hydro	State	120	Under Construction
TN	Mettur TPP Ext	U-1	Thermal	State	600	Commissioned
TN	North Chennai Extn, U-2	U-2	Thermal	State	600	Commissioned
TN	North Chennai TPS Extn, U-1	U-1	Thermal	State	600	Commissioned
TN	Ennore Super Critical TPP	U-1	Thermal	State	660	Under Construction
		U-2	Thermal	State	660	Under Construction
TN	Ennore TPP Expansion	U-1	Thermal	State	660	Under Construction
Tripura	Baramura GT Extn.	U-5	Thermal	State	21	Commissioned
Tripura	Rokhia CCPP	GT-9	Thermal	State	21	Commissioned
UP	Anpara-D TPS	U- 6	Thermal	State	500	Commissioned
UP	Anpara-D TPS	U-7	Thermal	State	500	Under Construction
Uttarakhand	Vyasi	(2x60)	Hydro	State	120	Under Construction
WB	Durgapur TPS Extn U-8	U-8	Thermal	State	250	Commissioned
WB	Sagardighi TPS-II	U-3	Thermal	State	500	Under Construction
		U-4	Thermal	State	500	Under Construction
<b>PRIVATE SECTOR</b>						
AP	Lanco Kondapalli Ph-II (GT)	GT	Thermal	Private	233	Commissioned
AP	Lanco Kondapalli Ph-II (ST)	ST	Thermal	Private	133	Commissioned
AP	Lanco Kondapalli CPP Expn. St.III	Module-1	Thermal	Private	371	Commissioned
		Module-2	Thermal	Private	371	Commissioned
AP	Painampuram TPP Corporation Ltd	U-1	Thermal	Private	660	Commissioned
		U-2	Thermal	Private	660	Commissioned
AP	Simhapuri Energy Pvt Ltd Ph-II	U-3	Thermal	Private	150	Commissioned
		U-4	Thermal	Private	150	Commissioned
AP	Simhapuri Energy Pvt.Ltd Ph-I	U-1	Thermal	Private	150	Commissioned
		U-2	Thermal	Private	150	Commissioned
AP	Thamminapatnam TPP-I	U-1	Thermal	Private	150	Commissioned
		U-2	Thermal	Private	150	Commissioned
AP	Vemagiri CCPP-II Ltd.	Block-I	Thermal	Private	384	Commissioned
		Block-II	Thermal	Private	384	Commissioned
AP	Bhavanpadu TPP	U-1	Thermal	Private	660	Under Construction
		U-2	Thermal	Private	660	Under Construction
AP	NCC TPP	U-1	Thermal	Private	660	Under Construction
		U-2	Thermal	Private	660	Under Construction
AP	Panduranga CCPP	Module-1	Thermal	Private	110.3	Under Construction
AP	RVK Gas Engine Pvt.Ltd	GE: 5-8	Thermal	Private	38	Under Construction
		GE:1-4	Thermal	Private	38	Under Construction
AP	RVKCCPP PVT.Ltd	Module-1	Thermal	Private	120	Under Construction
		Module-2	Thermal	Private	120	Under Construction
		Module-3	Thermal	Private	120	Under Construction

<b>AP</b>	<b>Samalkot CCPP-II</b>	<b>Module-1</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Under Construction</b>
		<b>Module-2</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Under Construction</b>
<b>AP</b>	<b>Samalkot CCPP-II</b>	<b>Module-3</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Under Construction</b>
		<b>Module-4</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Under Construction</b>
		<b>Module-5</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Under Construction</b>
		<b>Module-6</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Under Construction</b>
<b>AP</b>	<b>Thamminapatnam TPP-II</b>	<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Under Construction</b>
<b>AP</b>	<b>Vizag TPP Corp. Ltd</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>520</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>520</b>	<b>Under Construction</b>
<b>Arunachal Pradesh</b>	<b>Gongri</b>	<b>(2x72)</b>	<b>Private</b>	<b>Hydro</b>	<b>144</b>	<b>Under Construction</b>
<b>Bihar</b>	<b>Jas Infra TPP Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Akaltara (Naiyara) TPP Company Ltd</b>	<b>U-1 (3rd)</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-2 (4th)</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Avantha Bhandar TPP, U-1</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Badadarha TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Balco TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Bandakhar TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Chakabura TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>30</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Kasaipalli TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Katghora TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>35</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Raikheda TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>685</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Ratija TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>50</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Salora TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Swastic TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>25</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Tamnar TPP ( Raigarh)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Uchpinda TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>360</b>	<b>Commissioned</b>
<b>Chhattisgarh</b>	<b>Akaltara (Naiyara) TPP Company Ltd</b>	<b>U-3(2nd)</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
		<b>U-4 (5th)</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
		<b>U-5(1st)</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
		<b>U-6</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Balco TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Binjkote TPP Gen.(Chhattisgarh Ltd)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Deveri TPP (Visa TPP) Raigarh</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Lanco Amarkantak TPS-II</b>	<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Nawapara TPP (TRN Energy)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Raikheda TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>685</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Salora TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Singhitarai TPP Power Ltd.</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>Chhattisgarh</b>	<b>Uchpinda TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>360</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>360</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>360</b>	<b>Under Construction</b>
<b>Delhi</b>	<b>Rithala CCPP</b>	<b>GT-1</b>	<b>Thermal</b>	<b>Private</b>	<b>35.75</b>	<b>Commissioned</b>
		<b>GT-2</b>	<b>Thermal</b>	<b>Private</b>	<b>35.75</b>	<b>Commissioned</b>
		<b>ST</b>	<b>Thermal</b>	<b>Private</b>	<b>36.5</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>DGEN Mega CCPP</b>	<b>Module-1</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Commissioned</b>
		<b>Module-2</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Commissioned</b>
		<b>Module-3</b>	<b>Thermal</b>	<b>Private</b>	<b>400</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Mundra TPP Ph-II</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Mundra TPP Ph-III</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>

<b>Gujarat</b>	<b>Mundra UMPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>800</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>800</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>800</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>800</b>	<b>Commissioned</b>
		<b>U-5</b>	<b>Thermal</b>	<b>Private</b>	<b>800</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Salaya TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>Gujarat</b>	<b>Unosugen Mega CAPP</b>	<b>Module-1</b>	<b>Thermal</b>	<b>Private</b>	<b>382.5</b>	<b>Commissioned</b>
<b>Haryana</b>	<b>Jajjar TPP (Mahatama Gandhi TPP)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>Himachal Pradesh</b>	<b>Sorang</b>	<b>(2x50)</b>	<b>Hydro</b>	<b>Private</b>	<b>100</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Tangnu Romai</b>	<b>(2x22)</b>	<b>Hydro</b>	<b>Private</b>	<b>44</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Tidong-I</b>	<b>-</b>	<b>Hydro</b>	<b>Private</b>	<b>100</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Chanju-I</b>	<b>(3x12)</b>	<b>Hydro</b>	<b>Private</b>	<b>36</b>	<b>Under Construction</b>
<b>Himachal Pradesh</b>	<b>Bajoli Holi</b>	<b>(3x60)</b>	<b>Hydro</b>	<b>Private</b>	<b>180</b>	<b>Under Construction</b>
<b>Jammu &amp; Kashmir</b>	<b>Ratle</b>	<b>(4x205 + 1x30)</b>	<b>Hydro</b>	<b>Private</b>	<b>850</b>	<b>Under Construction</b>
<b>Jharkhand</b>	<b>Mahadev Prasad TPP Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
<b>Jharkhand</b>	<b>Maithon RB TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>525</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>525</b>	<b>Commissioned</b>
<b>Jharkhand</b>	<b>Mata shri Usha TPP-Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
<b>Jharkhand</b>	<b>Mata Shri Usha TPP-Ph-II</b>	<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
<b>Jharkhand</b>	<b>Tori TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Amravati TPP Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
		<b>U-5</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Bela TPP-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Butibori TPP Ph-II</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Dhariwal Infracure TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>EMCO Warora TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>GEPL TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>60</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>60</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>JSW Ratnagiri TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Mihan TPS</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>61.5</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>61.5</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>61.5</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>61.5</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Nasik TPP Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Tirora TPP Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Tirora TPP Ph-II</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Wardha Warora TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>135</b>	<b>Commissioned</b>
<b>Maharashtra</b>	<b>Amravati TPP Ph-II</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-5</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Bijora Ghanmukh TPP Pvt.Ltd.</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Lanco Vidarbha TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Mangaon CAPP</b>	<b>Block-1</b>	<b>Thermal</b>	<b>Private</b>	<b>388</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Nasik TPP Ph-I Pvt Ltd.</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>

<b>Maharashtra</b>	<b>Nasik TPP Ph-I Pvt Ltd.</b>	<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-5</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
<b>Maharashtra</b>	<b>Nasik TPP Ph-II Pvt Ltd.</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-5</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
<b>MP</b>	<b>Anuppur TPP Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>MP</b>	<b>Bina TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>250</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>250</b>	<b>Commissioned</b>
<b>MP</b>	<b>Mahan TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>MP</b>	<b>Nigri TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>MP</b>	<b>Niwari TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Commissioned</b>
<b>MP</b>	<b>Sasan UMPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-4</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-5</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-6</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>MP</b>	<b>Anuppur TPP Ph-I</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>MP</b>	<b>Gorgi TPP ( DB Power)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>MP</b>	<b>Mahan TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>MP</b>	<b>Niwari TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Under Construction</b>
<b>MP</b>	<b>Seoni TPP Ph-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>Orissa</b>	<b>Derang TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>Orissa</b>	<b>Kamalanga TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Commissioned</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Commissioned</b>
<b>Orissa</b>	<b>Ind Bharat TPP ( Orissa)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Under Construction</b>
<b>Orissa</b>	<b>KVK Nilanchal TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>350</b>	<b>Under Construction</b>
<b>Orissa</b>	<b>Lanco Babandh TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>Orissa</b>	<b>Malibrahmani TPP ( Monnet Ispat)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>525</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>525</b>	<b>Under Construction</b>
<b>Punjab</b>	<b>Rajpura TPP ( Nabha)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>700</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>700</b>	<b>Commissioned</b>
<b>Punjab</b>	<b>Talwandi Sabo TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>Punjab</b>	<b>Goindwal Sahib TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>270</b>	<b>Under Construction</b>
<b>Punjab</b>	<b>Talwandi Sabo TPP</b>	<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>Rajasthan</b>	<b>Kawai TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Commissioned</b>
<b>Sikkim</b>	<b>Jorethang Loop</b>	<b>(2x48)</b>	<b>Hydro</b>	<b>Private</b>	<b>96</b>	<b>Commissioned</b>
<b>Sikkim</b>	<b>Bhasmey</b>	<b>(3x17)</b>	<b>Hydro</b>	<b>Private</b>	<b>51</b>	<b>Under Construction</b>
<b>Sikkim</b>	<b>Dikchu</b>	<b>(3x32)</b>	<b>Hydro</b>	<b>Private</b>	<b>96</b>	<b>Under Construction</b>
<b>Sikkim</b>	<b>Rangit-IV</b>	<b>(3x40)</b>	<b>Hydro</b>	<b>Private</b>	<b>120</b>	<b>Under Construction</b>
<b>Sikkim</b>	<b>Rangit-II</b>	<b>(2x33)</b>	<b>Hydro</b>	<b>Private</b>	<b>66</b>	<b>Under Construction</b>
<b>Sikkim</b>	<b>Rongnichu</b>	<b>(2x48)</b>	<b>Hydro</b>	<b>Private</b>	<b>96</b>	<b>Under Construction</b>
<b>Sikkim</b>	<b>Tashiding</b>	<b>(2x48.5)</b>	<b>Hydro</b>	<b>Private</b>	<b>97</b>	<b>Under Construction</b>
<b>Sikkim</b>	<b>Teesta St. III</b>	<b>(6x200)</b>	<b>Hydro</b>	<b>Private</b>	<b>1200</b>	<b>Under Construction</b>
<b>Sikkim</b>	<b>Panan</b>	<b>(4x75)</b>	<b>Hydro</b>	<b>Private</b>	<b>300</b>	<b>Under Construction</b>
<b>TN</b>	<b>Melamaruthur TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>TN</b>	<b>Tuticorin TPP-II(Ind barath)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>150</b>	<b>Commissioned</b>
		<b>U-2</b>		<b>Private</b>	<b>150</b>	<b>Commissioned</b>
<b>TN</b>	<b>Melamaruthur TPP</b>	<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Under Construction</b>
<b>TN</b>	<b>Tuticorin TPP (Ind- Barath TPP)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>UP</b>	<b>Anpara-C</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>600</b>	<b>Commissioned</b>
		<b>U-2</b>		<b>Private</b>	<b>600</b>	<b>Commissioned</b>
<b>UP</b>	<b>Barkhera TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Commissioned</b>
		<b>U-2</b>		<b>Private</b>	<b>45</b>	<b>Commissioned</b>

<b>UP</b>	<b>Khamberkhera TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Commissioned</b>
		<b>U-2</b>		<b>Private</b>	<b>45</b>	<b>Commissioned</b>
<b>UP</b>	<b>Kundarki TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Commissioned</b>
		<b>U-2</b>		<b>Private</b>	<b>45</b>	<b>Commissioned</b>
<b>UP</b>	<b>Maqsoodpur TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Commissioned</b>
		<b>U-2</b>		<b>Private</b>	<b>45</b>	<b>Commissioned</b>
<b>UP</b>	<b>Rosa TPP Ph-II</b>	<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-4</b>		<b>Private</b>	<b>300</b>	<b>Commissioned</b>
<b>UP</b>	<b>Utrala TPP</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Commissioned</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>45</b>	<b>Commissioned</b>
<b>UP</b>	<b>Lalitpur TPP Co. Ltd</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>UP</b>	<b>Prayagraj (Bara ) TPP Co.Ltd( J.P.Power Ventures)</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-2</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
		<b>U-3</b>	<b>Thermal</b>	<b>Private</b>	<b>660</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Beta CAPP</b>	<b>GT+ST</b>	<b>Thermal</b>	<b>Private</b>	<b>225</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Gama CAPP</b>	<b>GT+ST</b>	<b>Thermal</b>	<b>Private</b>	<b>225</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Kashipur CAPP-I</b>	<b>Block-I</b>	<b>Thermal</b>	<b>Private</b>	<b>225</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Kashipur CAPP-II</b>	<b>GT+ST</b>	<b>Thermal</b>	<b>Private</b>	<b>225</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Shrinagar (AHPCL)</b>	<b>(4x82.5)</b>	<b>Hydro</b>	<b>Private</b>	<b>330</b>	<b>Commissioned</b>
<b>Uttarakhand</b>	<b>Phata Byung (LANCO)</b>	<b>(2x38)</b>	<b>Hydro</b>	<b>Private</b>	<b>76</b>	<b>Under Construction</b>
<b>Uttarakhand</b>	<b>Singoli Bhatwari (L&amp;T)</b>	<b>(3x33)</b>	<b>Hydro</b>	<b>Private</b>	<b>99</b>	<b>Under Construction</b>
<b>WB</b>	<b>Haldia TPP-I</b>	<b>U-1</b>	<b>Thermal</b>	<b>Private</b>	<b>300</b>	<b>Commissioned</b>
		<b>U-2</b>		<b>Private</b>	<b>300</b>	<b>Commissioned</b>

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1973  
ANSWERED ON 10.12.2015**

**TRANSMISSION PROJECTS**

**1973. SHRI DEVUSINH CHAUHAN:  
DR. KIRIT P. SOLANKI:  
SHRIMATI DARSHANA VIKRAM JARDOSH:  
SHIR D.S. RATHOD:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether Right of Way (RoW) and forest clearances are hindering the execution of transmission projects;**
- (b) if so, the details of the transmission projects that got stuck due to these reasons; and**
- (c) the steps taken by the Government in pursuing pending issues with concerned agencies for timely completion of transmission projects?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) & (b) : Right of Way (RoW) issues and delay in forest clearances are affecting the progress of implementation of transmission projects and the RoW issues have become major cause of delay in implementation of the projects. The State-wise details of transmission projects which have got stuck due to these factors are enclosed at Annex.**

**(c) : The following steps have been taken by the Government for timely completion of transmission projects;**

- (i) Ministry of Power has issued guidelines on 15.10.2015 to all the State Governments/UTs for payment of compensation towards damages in regard to the Right of Way (RoW) for construction of Transmission Lines.**
- (ii) Regular monitoring by Ministry of Power and Central Electricity Authority. The matter is taken up with the State authorities as well as Ministry of Environment, Forest and Climate Change (MoEFCC) for resolving the RoW and forest clearance issues respectively.**

- (iii) Critical transmission projects are also being monitored through PRAGATI (Proactive Governance and timely implementation) portal wherein the issues affecting the progress of the projects are reviewed and corrective measures suggested.**
- (iv) MOEFCC has issued forest clearance guidelines allowing working permission for linear projects by State Govt. after Stage-I (in principle) approval.**
- (v) MOEFCC has delegated the powers to Regional MoEFCC for approval of forest proposals of linear projects including transmission lines irrespective of forest area involved.**

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**ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1973 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**Details of Transmission Projects affected due to Right of Way (RoW) and Forest/ Wild Life Clearance issues**

**A. Projects delayed due to RoW Issues**

<b>Sl. No.</b>	<b>Name of the transmission line</b>	<b>State</b>
<b>1</b>	<b>LILO of Neelamangla - Hoddy 400KV S/C line &amp; LILO of Somanhally-Hoddy 400KV S/C line at Yelahanka through Multi - Ckt.</b>	<b>Karnataka</b>
<b>2</b>	<b>400KV D/C Madhugiri - Yelhanka line (QUAD)</b>	<b>-do-</b>
<b>3</b>	<b>765KV S/C Salem Pooling Station - Madhugiri Pooling Station line (initially charged at 400KV)</b>	<b>-do-</b>
<b>4</b>	<b>400KV D/C Dharmapuri (Salem New) - Somanahalli line</b>	<b>-do-</b>
<b>5</b>	<b>400 KV D/C Edamon (KSEB) - Muvattupuzha line</b>	<b>Kerala</b>
<b>6</b>	<b>400KV D/C Dehradun - Bagpat line</b>	<b>Uttar Pradesh</b>
<b>7</b>	<b>400KV D/C Roorkee - Saharanpur line</b>	<b>-do-</b>
<b>8</b>	<b>400KV D/C Lower Subhansiri - Biswanath Chariyali line -I</b>	<b>Assam</b>
<b>9</b>	<b>400KV D/C Lower Subhansiri - Biswanath Chariyali line -II</b>	<b>-do-</b>
<b>10</b>	<b>LILO of Lonikhand (MSEB) - Kalwa (MSEB) 400 kV S/C line at Navi Mumbai</b>	<b>Maharashtra</b>
<b>11</b>	<b>400KV D/C Silchar - Melriat (New) line (to be charged at 132KV)</b>	<b>Mizoram</b>

**B. Projects delayed due to Forest clearance**

<b>1</b>	<b>400kV D/C Kishenpur - New Wanpoh line</b>	<b>J&amp;K</b>
<b>2</b>	<b>400KV D/C Aurangabad - Boisar line (Quad)</b>	<b>Maharashtra</b>
<b>3</b>	<b>Navasari - Navi Mumbai (Boisar) 400 kV D/C line</b>	<b>-do-</b>
<b>4</b>	<b>Kala - Kudus 400 KV D/C line</b>	<b>-do-</b>
<b>5</b>	<b>Angul-Jharsuguda 765 KV D/C Line</b>	<b>Odisha</b>

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1981  
ANSWERED ON 10.12.2015**

**CLOSED POWER PLANTS**

**†1981. SHRI PASHUPATI NATH SINGH:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the dates from which and duration for which public sector power generating plants remained closed in the country during the current year along with the reasons therefor;**
- (b) the value of loss of production due to the said reasons;**
- (c) whether any person has been held responsible in this regard; and**
- (d) if so, the details thereof?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) to (d) : The details of power plants of capacity 3,709 MW which has not generated electricity during the current year along with the reasons is at Annex.**

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**ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 1981 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**Public sector stations with ZERO generation during 2015-16 ( April to November, 2015)**

<b>Fuel</b>	<b>Name of Utility</b>	<b>NAME OF THE STATION</b>	<b>Installed Capacity as on 30.11.2015 MW</b>	<b>Date of Outage</b>	<b>Reason of outage</b>
<b>HYDRO</b>	<b>HPSEB</b>	<b>SANJAY HPS</b>	<b>120</b>	<b>22.01.15</b>	<b>Fire in 220/22 KV, 10 MVA station transformer</b>
	<b>APGENCO</b>	<b>NAGARJUN SGR RBC HPS</b>	<b>90</b>	<b>01.04.15</b>	<b>Shortfall of rain, inflows and low reservoir level.</b>
	<b>TSGENCO</b>	<b>NAGARJUN SGR LBC HPS</b>	<b>60</b>	<b>01.04.15</b>	<b>Shortfall of rain, inflows and low reservoir level.</b>
	<b>TSGENCO</b>	<b>POCHAMPAD HPS</b>	<b>27</b>	<b>01.04.15</b>	<b>Shortfall of rain, inflows and low reservoir level.</b>
	<b>Total</b>		<b>297</b>		
<b>COAL</b>	<b>BSEB</b>	<b>BARAUNI TPS</b>	<b>210</b>	<b>April, 13</b>	<b>Renovation &amp; Modernisation / refurbishment works</b>
	<b>Total</b>		<b>210</b>		
<b>NATURAL GAS</b>	<b>GSECL</b>	<b>PIPAVAV CCPP</b>	<b>702</b>	<b>February, 14</b>	<b>Gas Shortage</b>
	<b>GSEGL</b>	<b>HAZIRA CCPP EXT</b>	<b>351</b>	<b>May, 12</b>	<b>Gas Shortage</b>
	<b>RGPPL</b>	<b>RATNAGIRI CCPP I</b>	<b>740</b>	<b>July, 13</b>	<b>Gas Shortage</b>
		<b>RATNAGIRI CCPP II</b>	<b>740</b>	<b>September, 13</b>	<b>Gas Shortage</b>
	<b>Total</b>		<b>2533</b>		
<b>HIGH SPEED DIESEL</b>	<b>JKSPDC</b>	<b>PAMPORE GPS (Liq.)</b>	<b>175</b>	<b>March, 12</b>	<b>Uneconomical Operation</b>
	<b>WBPDC</b>	<b>HALDIA GT (Liq.)</b>	<b>40</b>	<b>July, 02</b>	<b>Uneconomical Operation</b>
		<b>KASBA GT (Liq.)</b>	<b>40</b>	<b>June, 02</b>	<b>Uneconomical Operation</b>
	<b>Total</b>		<b>255</b>		
<b>NAPHTHA</b>	<b>DVC</b>	<b>MAITHON GT (Liq.)</b>	<b>90</b>	<b>June, 06</b>	<b>Uneconomical Operation</b>
			<b>90</b>		
<b>DIESEL</b>	<b>KPCL</b>	<b>YELHANKA (DG)</b>	<b>127.92</b>	<b>Sep-13</b>	<b>Uneconomical Operation</b>
	<b>ED, Manipur</b>	<b>LEIMAKHONG DG</b>	<b>36</b>	<b>August, 09</b>	<b>Uneconomical Operation</b>
	<b>Total</b>		<b>163.92</b>		
<b>MULTI FUEL</b>	<b>APGPCL</b>	<b>CHANDRAPUR (ASSAM) TPS</b>	<b>60</b>	<b>July, 99</b>	<b>Uneconomical Operation</b>
			<b>60</b>		
<b>NUCLEAR</b>	<b>DAE</b>	<b>DAE (RAJASTHAN)</b>	<b>100</b>	<b>09.10.04</b>	<b>Generator Earth Fault / Regulatory clearance</b>
	<b>Total</b>		<b>100</b>		
	<b>Grand Total</b>		<b>3708.92</b>		

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.2002  
ANSWERED ON 10.12.2015**

**POWER CONTRACTS TO CHINESE COMPANIES**

**2002. SHRI PRABHAKAR REDDY KOTHA:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether power contracts are proposed to be awarded to Chinese Companies for installation of data acquisition system for better power distribution and management, if so, the details thereof;**
- (b) whether the domestic industry is of the apprehension that it could pose a serious security threat and has suggested not to award such contracts, if so, the details thereof; and**
- (c) the remedial measures being taken by the Government in this regard?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) to (c) : The State Power Utilities of Rajasthan, Madhya Pradesh and Tamil Nadu have awarded Supervisory Control and Data Acquisition Systems (SCADA) implementation of 17 towns to M/s Dongfang Electronics, a duly empanelled company from China under Restructured Accelerated Power Development & Reforms Programme (R-APDRP). Indian Electrical & Electronics Manufacturing Association [IEEMA] had expressed apprehensions at awarding such SCADA projects to the said Chinese Company. Security of electric infrastructure is ensured by the concerned utility.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.2004  
ANSWERED ON 10.12.2015**

**BILATERAL ENERGY COOPERATION WITH SAARC**

**2004. SHRI FAGGAN SINGH KULASTE:  
SHRI N.K. PREMACHANDRAN:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the details of the SAARC Nations with whom India have bilateral energy cooperation along with terms of agreement;**
- (b) whether there is any proposal to enter into any agreement regarding power with SAARC Nations;**
- (c) if so, whether any plan/strategy has been finalized in this regard;**
- (d) if so, the details in this regard; and**
- (e) the Nations with whom similar cooperation is under consideration and the time by which the same is likely to be finalised?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) : The details are at Annex.**

**(b) to (e) : At present, there is no proposal to enter into an agreement with any other SAARC Nations. However, a draft Memorandum of Understanding between Government of the Republic of India and the Government of the Islamic Republic of Pakistan on cooperation in the bilateral electricity trade was shared with Pakistan in 2014 through Ministry of External Affairs. The response of Pakistan is still awaited.**

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**ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO.2004 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**The details of the SAARC Nations with whom India have bilateral energy cooperation along with terms of agreement**

**Bangladesh** - An MoU was signed between the People's Republic of Bangladesh (GoB) and the Government of India (GoI) on 11th January 2010 on cooperation in power generation, transmission, energy efficiency and development of various types of renewable energy. In October, 2013, a cross border interconnection was established between India and Bangladesh. Presently, Bangladesh is importing 500 MW electricity from India through interconnection.

Further, National Thermal Power Corporation (NTPC) signed an MoU for cooperation in power sector with Bangladesh Power Development Board (BPDP). Under this MoU, the Bangladesh-India Friendship Power Company Pvt. Ltd. (BIFPCL), a 50:50 Joint Venture between NTPC and BPDP has been incorporated in Dhaka, Bangladesh for developing a 1320 (2x660) MW power project at Rampal, District Bagerhat in Khulna division.

**Bhutan** - India and Bhutan signed an agreement on cooperation in the field of hydropower in July 2006. Government of India has constructed three Hydro Electric Projects (HEPs) viz. Chukha, Kurichhu and Tala in Bhutan, with total installed capacity of 1416 MW that are supplying electricity to India under their respective bilateral agreements. Three projects totalling 2940 MW (1200 MW Punatsangchu-I, 1020 MW Punatsangchu-II and 720 MW Mangdechu HEPs) are currently under construction. Another four HEPs totalling 2120 MW (600 MW Kholongchhu, 180 MW Bunakha, 570 MW Wangchu and 770 MW Chamkarchu) have been identified for construction under the Joint Venture mode.

**Nepal** - India and Nepal have a Power Exchange Agreement since 1971 for meeting power requirements of the two countries. 132 KV, 33 KV and 11KV transmission interconnections are used for power trade.

A bilateral Agreement on "Electric Power Trade, Cross-Border Transmission Interconnection and Grid Connectivity" was signed on 21st October, 2014 in Kathmandu.

Project Development Agreements for the 900 MW Upper Karnali HEP by M/s GMR and the 900 MW Arun-III HEP by M/s SJVN were signed in September and November 2014 respectively. The Pancheshwar Development Authority for the 5600 MW multi-purpose project was constituted in August 2014.

**Sri Lanka** - An MoU was signed among Government of India, Government of Sri Lanka, PGCIL and the Ceylon Electricity Board (CEB) on 9.6.2010 for carrying out feasibility study for interconnection of India-Sri Lanka Electricity Grids. PGCIL and CEB, Sri Lanka were appointed as executing agencies for the above project.

**The feasibility study was carried out and a report for 360 km long 2x500 MW HVDC bipole line, including 120km long submarine cable, between Madurai (India) and New Anuradhapura (Sri Lanka) was prepared. Subsequently, another study was also carried out for an alternative route to reduce the length of submarine cable thereby reducing the overall project cost of the interconnection. However, Government of Tamil Nadu had expressed reservations about this project.**

**Further, a Joint Venture Agreement has been signed between NTPC and Ceylon Electricity Board(CEB) on 6th September 2011, and a JV Company by the name "Trincomalee Power Company Limited(TPCL)" has been incorporated in Colombo, for setting up a 2x250 MW coal based power project near Trincomalee, Sri Lanka with 50:50 equity investments by the promoters.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.2024  
ANSWERED ON 10.12.2015**

**MISSION LED BULBS**

**2024. SHRI P. KARUNAKARAN:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether Mission LED Bulbs and supply of LED Bulbs free of cost has been started with a view to reduce the power consumption in the country, if so, the details thereof and also the hindrances faced in the implementation of the scheme;
- (b) the details of the total energy saved/ power consumption reduced so far; and
- (c) the details of measures/steps being taken by the Government to increase awareness among the people in the country for using LED Bulbs?

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

(a) : No, Madam. There is no plan of Energy Efficiency Services Limited (EESL), a Joint Venture company under Ministry of Power, to provide LED bulbs free of cost to any category of consumers. LED bulbs are being provided by EESL to consumers @ Rs. 10 per month and rest to be recovered through monthly instalments in Electricity Bills.

(b) : It is targeted to replace 77 crore bulbs in the country by LED by March, 2019. As a result of such replacement, savings will be as follows:

- Energy saved per year – 100 billion Units (Approx.)
- Avoided Peak Demand – 20000 MW (Approx.)
- Cost saving per year - Rs.40,000 crore (Approx.)
- CO<sub>2</sub> Reduction per year – 80 million Tones CO<sub>2</sub> (Approx.)



**(c) : There are several measures/steps taken by the Government to increase awareness among the people in the Country for using LED bulbs as mentioned below:**

- (i) Bureau of Energy Efficiency (BEE) releases advertisements on star rating of LED bulbs in the National Dailies and other periodicals.**
- (ii) Episodes of 15 minutes Radio Programme “Bachat Ke Sitare Dost Hamare” on LED are being broadcast on All India Radio FM Gold and Rainbow in twenty languages.**
- (iii) The messages on LED are also displayed on Public Utilities, Hoardings, Panels inside Delhi Metro, Boarding Passes of Air India, electricity bills, Bus Queue Shelters etc.**
- (iv) BEE displayed the importance of LED through various activities by placing a stall during the India International Trade Fair at Pragati Maidan, New Delhi from 14<sup>th</sup> to 27<sup>th</sup> November 2015, Nukkad Natak organized at BEE stall to make awareness regarding LED to the visitors and leaflet on LED was also distributed to the visitors during the exhibition.**
- (v) Energy Efficiency Services Limited (EESL) has taken several steps to enhance awareness of the benefits of using LED bulbs by the consumers through mass media including print, radio, television and internet.**
- (vi) A website has been launched by EESL named ‘ILEDTHEWAY.IN’ where the general public is informed about the benefits of using LEDs and is encouraged to take pledge of using LED bulbs.**

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.2031  
ANSWERED ON 10.12.2015**

**GAP BETWEEN COST OF POWER GENERATION AND SELLING PRICE**

**2031. SHRI HARISH MEENA:  
DR. P. VENUGOPAL:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether there is a wide gap between the cost of power generation and the selling price of power to the consumers in the country, if so, the details thereof and the reasons therefor, State-wise;
- (b) whether power firms owe Coal India around Rs.8,000 crore, if so, the details thereof; and
- (c) the steps taken by the Government to minimise the gap between per unit cost of power generation and its selling price to the consumers?

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

(a): Yes, Madam. There exists a gap between cost of generation/generation tariff and sale price/cost of supply to the end consumer. This is due the fact that in addition to the generation tariff, the cost of supply to the end consumers includes the transmission charges, transmission losses, distribution network charges, distribution losses and commercial losses etc. The average cost of supply and Average Revenue State-wise for the year 2013-14 is at Annex-I.

(b): As per the information provided by Ministry of Coal, as on 30.11.2015, an amount of ` 8279.19 Crores (provisional) is outstanding against State Electricity Boards and Power Companies, including Independent Power Producers (IPPs) to be paid to Coal India Ltd. The details of the same are at Annex-II.

(c): Through appropriate policy framework and programmes, the Government is promoting efficiency in generation, transmission and distribution business and also supporting strengthening of the distribution and transmission infrastructure for reducing technical losses, with a view to reduce the total cost of supply of electricity to the consumer. These measures, along with the policy framework of discovery of tariff through competitive bidding will contribute towards lowering of tariff rates.

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## ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 2031 ANSWERED IN THE LOK SABHA ON 10.12.2015.

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Region	State	Utility	2013-14		
			ACS*	Avg Revenue (Subsidy Recd basis)	Gap (subsidy recd basis)
Eastern	Bihar	BSEB			
		NBPDCL	4.84	4.71	0.13
		SBPDCL	5.17	4.86	0.31
	Bihar Total		5.04	4.80	0.24
	Jharkhand	JSEB	5.52	3.79	1.73
	Jharkhand Total		5.52	3.79	1.73
	Sikkim	Sikkim PD	3.10	3.49	(0.39)
	Sikkim Total		3.10	3.49	(0.39)
	West Bengal	WBSEDCL	4.89	4.90	(0.01)
	West Bengal Total		4.89	4.90	(0.01)
	Odisha	NESCO	3.93	3.84	0.09
		SESCO	3.33	3.29	0.04
		WESCO	3.92	3.79	0.13
		CESU	3.91	3.66	0.25
	Odisha Total		3.84	3.69	0.15
Eastern Total		4.68	4.42	0.26	
North Eastern	Arunachal Pradesh	Arunachal PD	8.03	1.43	6.59
	Arunachal Pradesh Total		8.03	1.43	6.59
	Assam	APDCL	5.16	4.15	1.00
	Assam Total		5.16	4.15	1.00
	Manipur	Manipur PD	5.20	2.20	3.01
	Manipur Total		5.20	2.20	3.01
	Meghalaya	MeECL			
		MePDCL	3.39	3.21	0.18
	Meghalaya Total		3.39	3.21	0.18
	Mizoram	Mizoram PD	6.35	2.34	4.00
	Mizoram Total		6.35	2.34	4.00
	Nagaland	Nagaland PD	4.57	1.54	3.03
	Nagaland Total		4.57	1.54	3.03
	Tripura	TSECL	3.74	3.27	0.47
	Tripura Total		3.74	3.27	0.47
North Eastern Total		4.94	3.48	1.46	
Northern	Delhi	BSES Rajdhani	6.10	6.11	(0.01)
		BSES Yamuna	6.52	6.54	(0.02)
		TPDDL	4.97	5.34	(0.38)
	Delhi Total		5.83	5.96	(0.13)
	Haryana	DHBVNL	4.96	4.34	0.62
		UHBVNL	5.55	4.86	0.69
	Haryana Total		5.22	4.57	0.66
	Himachal Pradesh	HPSEB Ltd.	4.83	4.77	0.07
	Himachal Pradesh Total		4.83	4.77	0.07
	Jammu & Kashmir	J&K PDD	3.20	1.32	1.88
	Jammu & Kashmir Total		3.20	1.32	1.88
	Punjab	PSPCL	4.71	4.77	(0.06)
Punjab Total		4.71	4.77	(0.06)	
Rajasthan	AVVNL	7.14	4.20	2.94	
	JDVVNL	6.49	3.80	2.69	
	JVVNL	6.16	3.79	2.37	
Rajasthan Total		6.54	3.90	2.64	

	<b>Uttar Pradesh</b>	<b>DVVN</b>	<b>6.18</b>	<b>3.19</b>	<b>2.99</b>
		<b>KESCO</b>	<b>6.38</b>	<b>4.48</b>	<b>1.90</b>
		<b>MVVN</b>	<b>6.18</b>	<b>3.89</b>	<b>2.29</b>
		<b>Pash VVN</b>	<b>5.71</b>	<b>4.39</b>	<b>1.32</b>
		<b>Poorv VVN</b>	<b>6.53</b>	<b>4.11</b>	<b>2.42</b>
	<b>Uttar Pradesh Total</b>		<b>6.12</b>	<b>3.96</b>	<b>2.16</b>
	<b>Uttarakhand</b>	<b>Ut PCL</b>	<b>3.09</b>	<b>3.36</b>	<b>(0.27)</b>
<b>Uttarakhand Total</b>		<b>3.09</b>	<b>3.36</b>	<b>(0.27)</b>	
<b>Northern Total</b>			<b>5.53</b>	<b>4.29</b>	<b>1.24</b>
<b>Southern</b>	<b>Andhra Pradesh</b>	<b>APCPDCL</b>	<b>4.90</b>	<b>4.65</b>	<b>0.25</b>
		<b>APEPDCL</b>	<b>4.62</b>	<b>4.52</b>	<b>0.10</b>
		<b>APNPDCCL</b>	<b>4.71</b>	<b>4.68</b>	<b>0.03</b>
		<b>APSPDCL</b>	<b>4.94</b>	<b>4.74</b>	<b>0.20</b>
	<b>Andhra Pradesh Total</b>		<b>4.83</b>	<b>4.65</b>	<b>0.18</b>
	<b>Karnataka</b>	<b>BESCOM</b>	<b>4.40</b>	<b>4.43</b>	<b>(0.03)</b>
		<b>CHESCOM</b>	<b>3.93</b>	<b>3.82</b>	<b>0.10</b>
		<b>GESCOM</b>	<b>4.00</b>	<b>4.04</b>	<b>(0.03)</b>
		<b>HESCOM</b>	<b>4.75</b>	<b>4.20</b>	<b>0.55</b>
		<b>MESCOM</b>	<b>4.81</b>	<b>4.81</b>	<b>(0.00)</b>
	<b>Karnataka Total</b>		<b>4.40</b>	<b>4.30</b>	<b>0.09</b>
	<b>Kerala</b>	<b>KSEB</b>	<b>4.80</b>	<b>4.92</b>	<b>(0.11)</b>
		<b>KSEBL</b>	<b>5.41</b>	<b>5.38</b>	<b>0.03</b>
	<b>Kerala Total</b>		<b>5.07</b>	<b>5.12</b>	<b>(0.05)</b>
	<b>Puducherry</b>	<b>Puducherry PD</b>	<b>3.82</b>	<b>3.61</b>	<b>0.21</b>
	<b>Puducherry Total</b>		<b>3.82</b>	<b>3.61</b>	<b>0.21</b>
	<b>Tamil Nadu</b>	<b>TANGEDCO</b>	<b>6.52</b>	<b>4.71</b>	<b>1.81</b>
<b>Tamil Nadu Total</b>		<b>6.52</b>	<b>4.71</b>	<b>1.81</b>	
<b>Southern Total</b>			<b>5.28</b>	<b>4.62</b>	<b>0.66</b>
<b>Western</b>	<b>Chhattisgarh</b>	<b>CSPDCL</b>	<b>3.43</b>	<b>3.15</b>	<b>0.28</b>
	<b>Chhattisgarh Total</b>		<b>3.43</b>	<b>3.15</b>	<b>0.28</b>
	<b>Goa</b>	<b>Goa PD</b>	<b>3.35</b>	<b>3.34</b>	<b>0.01</b>
	<b>Goa Total</b>		<b>3.35</b>	<b>3.34</b>	<b>0.01</b>
	<b>Gujarat</b>	<b>DGVCL</b>	<b>5.36</b>	<b>5.41</b>	<b>(0.05)</b>
		<b>MGVCL</b>	<b>4.55</b>	<b>4.58</b>	<b>(0.03)</b>
		<b>PGVCL</b>	<b>3.71</b>	<b>3.72</b>	<b>(0.01)</b>
		<b>UGVCL</b>	<b>3.93</b>	<b>3.94</b>	<b>(0.01)</b>
	<b>Gujarat Total</b>		<b>4.21</b>	<b>4.23</b>	<b>(0.02)</b>
	<b>Madhya Pradesh</b>	<b>MP Madhya Kshetra VVCL</b>	<b>4.89</b>	<b>3.33</b>	<b>1.56</b>
		<b>MP Paschim Kshetra VVCL</b>	<b>4.89</b>	<b>3.89</b>	<b>1.00</b>
		<b>MP Purv Kshetra VVCL</b>	<b>4.94</b>	<b>3.73</b>	<b>1.21</b>
	<b>Madhya Pradesh Total</b>		<b>4.90</b>	<b>3.65</b>	<b>1.25</b>
	<b>Maharashtra</b>	<b>MSEDCL</b>	<b>5.34</b>	<b>5.22</b>	<b>0.12</b>
<b>Maharashtra Total</b>		<b>5.34</b>	<b>5.22</b>	<b>0.12</b>	
<b>Western Total</b>			<b>4.72</b>	<b>4.40</b>	<b>0.32</b>
<b>Grand Total</b>			<b>5.15</b>	<b>4.41</b>	<b>0.73</b>

\* Average Cost of Supply (ACS) includes cost of power generation, Transmission charges and losses, Distribution Charges and Losses

(Source PFC)

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## ANNEX-II

## ANNEX REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 2031 ANSWERED IN THE LOK SABHA ON 10.12.2015.

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## Details of Outstanding against State Electricity Boards and Power Companies including Independent Power Producers to be paid to Coal India Ltd.

Name of SEB & Power Companies	Balance as on 01.04.2015			During Nov 2015					(Provisional) Progressive for the year					As on 30.11.2015		
	Disputed	Undisputed	Total	Billing	Actual Realism	EB, Royalty, Cess Adjsts	Total Realism	Other Adjsts	Billing	Actual Realism	EB, Royalty, Cess Adjsts	Total Realism	Other Adjsts	Disputed	Undisputed	Total
NTECL				38.90	34.36		34.36		226.62	212.57		212.57	-14.05			
DVC	184.54	1,188.60	1,373.14	348.55	285.65	30.00	315.65		3,199.82	2,722.68	277.19	2,999.87	-51.03	226.90	1,295.16	1,522.06
NTPC	901.42	1,069.84	1,971.26	2,002.57	2,075.12		2,075.12		15,717.69	15,985.38		15,985.38	-989.64	174.54	539.39	713.93
KBUNL		9.03	9.03	9.01	11.70		11.70		141.00	109.70		109.70	-40.33	0.02	-0.02	
APCPL (Aravali)				34.49	30.00		30.00		491.47	441.00		441.00	-50.47		0.00	0.00
DCC		5.35	5.35						6.57	8.23		8.23			3.69	3.69
NTPC SAIL									150.02	150.02		150.02				
Total CPU's	1,085.96	2,272.82	3,358.78	2,433.52	2,436.83	30.00	2,466.83		19,933.19	19,629.58	277.19	19,906.77	-1,145.52	401.46	1,838.22	2,239.68
BSEB (BSPHCL)	181.19	22.05	203.24						7.45				-7.44	181.48	21.77	203.25
JSEB	49.96	161.65	211.61	4.19					33.73	40.00		40.00	-0.33	46.36	158.65	205.01
UPRVUNL	45.30	578.38	623.68	345.16	358.47		358.47		2,909.13	3,172.01	40.53	3,212.54	-27.89	43.52	248.86	292.38
PSPCL	72.87	59.39	132.26	101.35	156.17		156.17		898.27	937.75		937.75	0.32	74.59	18.51	93.10
TANGEDCO (TNEB)	78.98	7.68	86.66	200.34	169.09		169.09		1,524.80	1,394.42		1,394.42	-47.34	83.21	86.49	169.70
HPGCL	10.87	90.28	101.15	209.67	187.93		187.93		1,049.49	918.92		918.92	-135.85	24.17	71.70	95.87
RRVUNL	48.39	387.48	435.87	144.00	171.35		171.35		1,362.60	1,142.55		1,142.55	50.54	48.39	658.07	706.46
MAHAGENCO (MSPGCL)	17.53	631.98	649.51	638.66	623.48		623.48		4,596.85	4,742.10		4,742.10	-169.31	16.62	318.33	334.95
MPPGCL	106.37	1,066.83	1,173.20	284.08	353.71		353.71		2,107.07	2,482.17		2,482.17	-35.31	106.37	656.42	762.79
CSPGCL	26.71	460.91	487.62	115.97	90.29		90.29		934.55	949.77		949.77	-2.17	26.71	443.52	470.23
GSECL	3.95	127.77	131.72	201.31	170.18		170.18		1,141.05	1,336.89		1,336.89	89.50	3.95	21.43	25.38
WBSEB	1.29		1.29											1.29		1.29
WBPDL	209.35	1,316.03	1,525.38	272.69	238.00	0.50	238.50		2,243.27	2,033.00	82.11	2,115.11	-23.85	31.79	1,597.90	1,629.69
APGENCO	0.16	3.50	3.66	60.32	49.52		49.52		500.34	339.47		339.47	-133.16	0.16	31.21	31.37
KPCL		70.40	70.40	57.24	38.25		38.25		591.66	474.29		474.29	-8.76		179.01	179.01
DPL	22.13	65.24	87.37	42.11	43.40		43.40		235.32	237.05		237.05	-10.39	22.89	52.36	75.25
IPGCL (DVB)	0.15	16.71	16.86						7.29	6.60		6.60		0.15	17.40	17.55
DPS	2.50	-1.42	1.08											2.50	-1.42	1.08
TSGENCO					0.37		0.37		0.76	8.48		8.48	7.72			
TVNL	18.49	538.77	557.26	30.33	19.80		19.80		269.48	220.80		220.80		20.99	584.95	605.94
OPGC	2.11	4.07	6.18	19.42	29.30		29.30		191.66	213.00		213.00	17.27	2.11		2.11
Total State GenCos	898.30	5,607.70	6,506.00	2,726.84	2,699.31	0.50	2,699.81		20,604.77	20,649.27	122.64	20,771.91	-436.45	737.25	5,165.16	5,902.41

<b>VEDANTA (BALCO)</b>				<b>5.91</b>	<b>8.82</b>		<b>8.82</b>	<b>2.91</b>	<b>38.37</b>	<b>49.68</b>		<b>49.68</b>	<b>11.31</b>			
<b>CESC</b>	<b>0.18</b>	<b>9.68</b>	<b>9.86</b>	<b>58.04</b>	<b>78.31</b>		<b>78.31</b>		<b>511.36</b>	<b>499.26</b>		<b>499.26</b>	<b>-11.16</b>	<b>0.26</b>	<b>10.54</b>	<b>10.80</b>
<b>Torrent Power (AEC)</b>		<b>0.37</b>	<b>0.37</b>	<b>31.30</b>	<b>10.99</b>		<b>10.99</b>		<b>151.67</b>	<b>135.72</b>		<b>135.72</b>	<b>3.99</b>		<b>20.31</b>	<b>20.31</b>
<b>Reliance (BSES)</b>	<b>0.12</b>	<b>3.01</b>	<b>3.13</b>	<b>19.12</b>	<b>24.42</b>		<b>24.42</b>	<b>5.30</b>	<b>181.13</b>	<b>192.47</b>		<b>192.47</b>	<b>8.21</b>	<b>0.12</b>	<b>-0.12</b>	
<b>CLP Power (incl. MGTPS/Jhajjar)</b>				<b>67.43</b>	<b>53.00</b>		<b>53.00</b>		<b>438.94</b>	<b>321.70</b>		<b>321.70</b>	<b>-110.98</b>		<b>6.26</b>	<b>6.26</b>
<b>BOKARO PS</b>	<b>0.16</b>		<b>0.16</b>	<b>41.57</b>	<b>15.00</b>		<b>15.00</b>		<b>323.02</b>	<b>245.04</b>		<b>245.04</b>	<b>-66.89</b>	<b>0.13</b>	<b>11.12</b>	<b>11.25</b>
<b>Reliance (ROSA PS)</b>				<b>84.28</b>	<b>80.58</b>		<b>80.58</b>		<b>544.90</b>	<b>565.90</b>		<b>565.90</b>	<b>21.00</b>			
<b>CESC (Haldia E.)</b>				<b>19.96</b>	<b>17.30</b>		<b>17.30</b>		<b>133.14</b>	<b>110.89</b>		<b>110.89</b>	<b>-13.51</b>		<b>8.74</b>	<b>8.74</b>
<b>Wardha P.</b>				<b>30.40</b>	<b>26.63</b>		<b>26.63</b>		<b>224.65</b>	<b>194.55</b>		<b>194.55</b>	<b>-30.10</b>			
<b>Bajaj P.</b>				<b>40.68</b>	<b>38.63</b>		<b>38.63</b>		<b>224.52</b>	<b>220.59</b>		<b>220.59</b>	<b>-3.93</b>		<b>0.00</b>	<b>0.00</b>
<b>Maithon Power</b>	<b>0.03</b>		<b>0.03</b>	<b>77.38</b>	<b>82.89</b>		<b>82.89</b>		<b>378.55</b>	<b>375.70</b>		<b>375.70</b>	<b>0.12</b>	<b>1.88</b>	<b>1.12</b>	<b>3.00</b>
<b>Adani Power</b>				<b>38.73</b>	<b>38.73</b>		<b>38.73</b>		<b>403.31</b>	<b>403.31</b>		<b>403.31</b>				
<b>KSK Mahanadi</b>				<b>27.57</b>	<b>27.57</b>		<b>27.57</b>		<b>201.69</b>	<b>201.69</b>		<b>201.69</b>				
<b>DB Power</b>				<b>1.41</b>	<b>1.41</b>		<b>1.41</b>		<b>9.52</b>	<b>9.52</b>		<b>9.52</b>				
<b>Ratan India [India bull]</b>				<b>20.51</b>	<b>20.51</b>		<b>20.51</b>		<b>196.98</b>	<b>196.98</b>		<b>196.98</b>				
<b>M B. Power</b>				<b>10.85</b>	<b>10.85</b>		<b>10.85</b>		<b>85.64</b>	<b>85.64</b>		<b>85.64</b>				
<b>EMCO Energy</b>				<b>12.91</b>	<b>12.91</b>		<b>12.91</b>		<b>150.06</b>	<b>150.06</b>		<b>150.06</b>				
<b>NAVA Power</b>				<b>19.77</b>	<b>19.77</b>		<b>19.77</b>		<b>300.71</b>	<b>300.71</b>		<b>300.71</b>				
<b>LANCO</b>				<b>9.31</b>	<b>9.31</b>		<b>9.31</b>		<b>90.85</b>	<b>90.85</b>		<b>90.85</b>				
<b>JP Bina</b>				<b>9.36</b>	<b>1.32</b>		<b>1.32</b>		<b>23.40</b>	<b>15.36</b>		<b>15.36</b>			<b>8.04</b>	<b>8.04</b>
<b>Jindal Power</b>									<b>28.05</b>	<b>28.05</b>		<b>28.05</b>				
<b>Maruti Clean Coal</b>									<b>2.41</b>	<b>2.41</b>		<b>2.41</b>				
<b>Adani Power</b>				<b>80.96</b>	<b>78.61</b>		<b>78.61</b>		<b>727.35</b>	<b>692.77</b>		<b>692.77</b>	<b>-34.58</b>			
<b>VEDANTA (SSL)</b>				<b>67.76</b>	<b>61.03</b>		<b>61.03</b>		<b>285.38</b>	<b>286.12</b>		<b>286.12</b>	<b>46.32</b>		<b>45.58</b>	<b>45.58</b>
<b>GMR</b>		<b>9.03</b>	<b>9.03</b>	<b>25.37</b>	<b>23.75</b>		<b>23.75</b>		<b>157.82</b>	<b>164.54</b>		<b>164.54</b>	<b>6.72</b>		<b>9.03</b>	<b>9.03</b>
<b>NTPL</b>				<b>7.01</b>	<b>9.16</b>		<b>9.16</b>		<b>9.24</b>	<b>9.16</b>		<b>9.16</b>	<b>-0.08</b>			
<b>Hinduja NPL</b>				<b>6.01</b>	<b>12.54</b>		<b>12.54</b>		<b>6.01</b>	<b>12.54</b>		<b>12.54</b>	<b>6.53</b>			
<b>THERMAL P-TECH</b>				<b>12.09</b>	<b>9.90</b>		<b>9.90</b>		<b>72.95</b>	<b>55.76</b>		<b>55.76</b>	<b>-17.19</b>			
<b>TALWANDI SABO</b>				<b>25.77</b>	<b>20.00</b>		<b>20.00</b>		<b>135.84</b>	<b>56.00</b>		<b>56.00</b>	<b>-65.75</b>		<b>14.09</b>	<b>14.09</b>
<b>Prayagraj (Jaypee)</b>				<b>3.40</b>					<b>19.35</b>	<b>46.03</b>		<b>46.03</b>	<b>26.68</b>			
<b>Total Other Power</b>	<b>0.49</b>	<b>22.09</b>	<b>22.58</b>	<b>854.86</b>	<b>793.94</b>		<b>793.94</b>	<b>8.21</b>	<b>6,056.81</b>	<b>5,719.00</b>		<b>5,719.00</b>	<b>-223.29</b>	<b>2.39</b>	<b>134.71</b>	<b>137.10</b>
<b>TOTAL Power</b>	<b>1,984.75</b>	<b>7,902.61</b>	<b>9,887.36</b>	<b>6,011.82</b>	<b>5,930.08</b>	<b>30.50</b>	<b>5,960.58</b>	<b>8.21</b>	<b>46,575.42</b>	<b>45,951.82</b>	<b>399.83</b>	<b>46,351.65</b>	<b>-1,831.94</b>	<b>1,141.10</b>	<b>7,138.09</b>	<b>8,279.19</b>

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**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.2046  
ANSWERED ON 10.12.2015**

**SETTING UP OF NEW POWER PROJECTS**

**2046. SHRI ABHIJIT MUKHERJEE:  
SHRI BHEEMRAO B. PATIL:**

**Will the Minister of POWER  
be pleased to state:**

- (a) the details of proposals received by the Government for setting up of power projects in their States during the last three years and the current year, State-wise;**
- (b) the number of proposals sanctioned during the above period and those still pending for approval with the Government;**
- (c) the reasons for the pendency of the proposals; and**
- (d) the time by which these proposals are likely to be approved by the Government?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

**(a) : As per Section 7 of the Electricity Act 2003, any generating company may establish, operate and maintain a generating station without obtaining a licence/permission under this Act, if it complies with the technical standards relating to connectivity with the grid. Accordingly, sanction of the Government is not required for setting up of Thermal Power Projects. However, for setting up of hydro electric projects, the Detailed Project Reports (DPRs) are required to be submitted for concurrence of Central Electricity Authority (CEA). The details of the Hydro Electric Projects received during the last three years and the current year (i.e. April 2012 onwards) is given at Annex-I**

**(b) to (d) : Nine Hydro Electric Schemes were concurred by Central Electricity Authority (CEA), received during last three years and current year (i.e. April 2012 onwards), and the details of the schemes (as on 30th Nov., 2015) are given at Annex-II. Seven schemes received during the last three years and the current year (i.e. April 2012 onwards), which on examination were found to be incomplete, have been returned to the project authorities.**

**Eleven DPRs are presently under examination for concurrence in CEA (received during last three years and current year i.e. April 2012 onwards). Details of these schemes (as on 30th Nov., 2015) are given at Annex-III.**

**CEA endeavours to accord concurrence as far as practicable within a period of 150 working days (excluding time taken by developer for compliance of observations of CEA/Central Water Commission/Geological Survey of India/Central Soil and Material Research Station etc.) from the date of submission of DPRs complete in all respect.**

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**ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 2046 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**LIST OF HYDRO-ELECTRIC SCHEMES FOR WHICH DPRS HAVE BEEN RECEIVED  
SINCE APRIL 2012 ONWARDS (AS ON 30-11-2015)**

S. No.	Scheme	State	Sector	Installed Capacity (MW)
1	Dagamara	Bihar	State	130
2	Sivasamundram	Karnataka	State	345
3	Gimiliang	Ar. Pradesh	Private	80
4	Raigam	Ar. Pradesh	Private	141
5	Chhatru	HP	Private	126
6	Kalai-II	Ar. Pr	Private	1200
7	Dikhu	Nagaland	Private	186
8	Kiru	J&K	Joint Venture	624
9	Ratle	J&K	Private	850
10	Damwe Upper	Ar. Pradesh	Private	1080
11	Tagurshit	Ar. Pradesh	Private	74
12	Bowala Nand Paryag	Uttarakhand	State	300
13	New Ganderwal	J&K	State	93
14	Jelam Tamak	Uttarakhand	Central	108
15	Sach Khas	H.P	Private	267
16	Kirthai-I	J&K	State	390
17	Umngot	Meghalaya	State	210
18	Subansiri Middle (Kamla)	Ar. Pradesh	Private	1800
19	Nyukcharang Chu	Ar. Pradesh	Private	96
20	Kynshi - I	Meghalaya	Private	270
21	Kangtang Shiri	Ar. Pradesh	Private	80
22	Tato-I	Ar. Pr.	Private	186
23	Heo	Ar. Pr.	Private	240
24	Chango Yangthang	HP	Private	180
25	Sawalkote	J&K	State	1856
26	Kwar	J&K	Joint Venture	540
27	Attunli HEP	Ar. Pradesh	Private	680

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**ANNEX REFERRED TO IN REPLY TO PARTS (b) to (d) OF UNSTARRED QUESTION NO. 2046 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**LIST OF HYDRO ELECTRIC SCHEMES CONCURRED BY CEA**  
**(APRIL 2012 ONWARDS)**

Sl. No.	Name of Scheme	State	Sector	Installed Capacity		Month/Year of Receipt	Date of CEA Clearance
				Units x MW	MW		
1	Dikhu	Nagaland	Private	3x62	186	04/12	31/03/14
2	Chhatru	HP	Private	3x42	126	04/12	15/1/15
3	Kalai-II	Ar. Pr	Private	5x190+1x190+1x60	1200	04/12	27/3/15
4	Ratle/GVKRHEPPL	J&K	Private	4x205+1x30	850	05/12	19/12/12
5	New Ganderwal	J&K	State	3x31	93	10/12	10/6/14
6	Kynshi - I	Meghalaya	Private	2x135	270	02/13	31/3/15
7	Tato-I	Ar. Pr.	Private	3x62	186	05/13	28/10/15
8	Heo	Ar. Pr.	Private	3x80	240	07/13	28/07/15
9	Chango Yangthang	HP	Private	3x60	180	11/13	31/03/14

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**ANNEX-III**

**ANNEX REFERRED TO IN REPLY TO PARTS (b) to (d) OF UNSTARRED QUESTION NO. 2046 ANSWERED IN THE LOK SABHA ON 10.12.2015.**

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**LIST OF HYDRO-ELECTRIC SCHEMES UNDER EXAMINATION (AS ON 30.11.2015)**

<b>S. No.</b>	<b>Scheme</b>	<b>State</b>	<b>Sector</b>	<b>Agency</b>	<b>Installed Capacity (MW)</b>
<b>1</b>	<b>Dagamara</b>	<b>Bihar</b>	<b>State</b>	<b>BSHPCL</b>	<b>130</b>
<b>2</b>	<b>Kiru</b>	<b>J&amp;K</b>	<b>Joint Venture</b>	<b>CVPP</b>	<b>624</b>
<b>3</b>	<b>Jelam Tamak</b>	<b>Uttarakhand</b>	<b>Central</b>	<b>THDCIL</b>	<b>108</b>
<b>4</b>	<b>Bowala Nand Paryag</b>	<b>Uttarakhand</b>	<b>State</b>	<b>UJVNL</b>	<b>300</b>
<b>5</b>	<b>Sach Khas</b>	<b>H.P</b>	<b>Private</b>	<b>L&amp;T HHPL</b>	<b>267</b>
<b>6</b>	<b>Umngot</b>	<b>Meghalaya</b>	<b>State</b>	<b>MePGCL</b>	<b>210</b>
<b>7</b>	<b>Subansiri Middle (Kamla)</b>	<b>Ar. Pradesh</b>	<b>Private</b>	<b>M/s KHEPCL</b>	<b>1800</b>
<b>8</b>	<b>Sawalkote</b>	<b>J&amp;K</b>	<b>State</b>	<b>JKSPDC</b>	<b>1856</b>
<b>9</b>	<b>Kwar</b>	<b>J&amp;K</b>	<b>Joint Venture</b>	<b>CVPP</b>	<b>540</b>
<b>10</b>	<b>Tagurshit</b>	<b>Ar. Pradesh</b>	<b>Private</b>	<b>L&amp;T</b>	<b>74</b>
<b>11</b>	<b>Attunli HEP</b>	<b>Ar. Pradesh</b>	<b>Private</b>	<b>AHEPCL</b>	<b>680</b>

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