GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.522
ANSWERED ON 30.04.2015

POWER PROJECTS

*522. DR. RAVINDRA BABU:
SHRI KONDA VISHWESHWAR REDDY:

Will the Minister of POWER
be pleased to state:

(a) whether a number of thermal power projects are under renovation/closed and not in operation and if so, the details thereof;

(b) the steps taken/being taken by the Government to upgrade/revive such power projects;

(c) the details of the proposals for new power projects received from various States and those approved along with the reasons for the delay in according clearance to projects and the time by which clearance is likely to be accorded, project-wise;

(d) the details of the power projects which are running behind schedule along with the reasons therefor and the funds spent so far, sector and project-wise; and

(e) whether any road map has been chalked out by the Government to make the country self-reliant in power sector 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) to (e) : A Statement is laid on the Table of the House.

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STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 522 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING POWER PROJECTS.

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(a) : A total 8 nos. coal based thermal generating units with aggregate capacity of 1150 MW are closed for Renovation & Modernisation (R&M)/Life Extension (LE) works. The unit wise details of these thermal power plants are given at **Annex–I**.

A total 8 nos. thermal generating units with aggregate capacity of 611.5 MW; 50 nos. thermal generating units with aggregate capacity of 2398 MW and 10 nos. thermal generating units with aggregate capacity of 716.5 MW has been retired during 10th, 11th and 12th Plan respectively. The list of these power plants is given at **Annex-II**.

(b) : R&M/LE works are carried out by the concerned State and Central power utilities depending on their requirement. To facilitate the R&M/LE works, following steps have been taken/are being taken by the Government:

- Monitoring of R&M/LE projects by Central Electricity Authority.
- Providing technical inputs by CEA/NTPC Limited to the concerned power utilities for R&M scope of works, etc. as and when such request is received.
- Making funds available as loan through Power Finance Corporation (PFC) / Rural Electrification Corporation (REC).
- Ministry of power and CEA along with State and Central Power Utilities has initiated external cooperation for assistance in the area of Energy Efficiency R&M (EE R&M) both in terms of technology & finance.

(c) : After enactment of Electricity Act 2003, generation of electricity has been de-licensed and Techno-Economic clearance of Central Electricity Authority (CEA) is not required for thermal power projects. As such, proposals for thermal power projects from States are not being received in CEA for clearance.

(d) : As per information furnished by Project Developers to Central Electricity Authority, 114 units of under construction thermal power projects with aggregate capacity of 57125 MW are running behind schedule. The sector and project-wise details along with reasons of delay and funds spent so far is given at **Annex–III**.

(e) : Generation capacity addition has been planned to meet the rising demand of electricity in the country. Based on demand projection of the 18th Electric Power Survey (EPS), generation capacity addition target of 88,537 MW has been planned from conventional sources on All-India basis during 12th Five Year Plan. In addition, the capacity addition planned from Renewable sources is 30,000 MW during 12th Five Year Plan. Against these targets, capacity addition of 61014 MW from conventional sources and 15828 MW from renewable sources have already been achieved till 31.3.2015.

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ANNEX-I

ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 522 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING POWER PROJECTS.

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List of Thermal Power Projects (units), which are closed and under R&M / LE.

State Sector R&M/LE Programme (Coal Based)

S.N.	State	Name of Station	Unit No.	Year of Comm.	Capacity (MW)
1	U.P.	Obra	7	1974	100
2		Obra	10	1977	200
3		Obra	11	1977	200
4		Harduaganj	7	1978	110
5	Bihar	Barauni	6	1983	110
6		Barauni	7	1985	110
7	W.B.	Bandel	5	1982	210
8	Jharkhand	Patratu	9	1984	110
Total State Sector (R&M/LE)			**7**		**1150**

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ANNEX-II

ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 522 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING POWER PROJECTS.

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List of plants retired during 10th , 11th and 12th Plan

Units Retired During the 10th Plan

Sl. No.	Name of Station/Plant	Installed Capacity (MW)	Retired (MW)	Retired on
1	UtranCCGT,Gujarat	45	45	2002-03
2	Dhuvran,Gujarat	27.0	27.00	Mar.06
3	Panki,Uttar Pradesh	32.0	32.00	Mar.06
4	Bokaro,DVC	75.0	75.00	Mar.06
5	Mullazore,West Bengal	120.0	120.00	Mar.06
6	Nellore,Andhra Pradesh	30.0	30.00	Mar.07
7	Bokaro,DVC	172.5	172.5	31.02.06
8	Harduaganj,Uttar Pradesh	110.0	110.00	Feb.07
	Grand Total	611.5	611.50	

Units Retired/Derated During the 11th Plan

Sl. No.	Name of Station/Plant	Unit No.	Installed Capacity (MW)	Retired (MW)	Retired on
1	Dhuvaran TPS	1	63.50	63.50	Apr,2007
2	Dhuvaran TPS	2	63.50	63.50	Apr,2007
3	Dhuvaran TPS	3	63.50	63.50	Apr,2007
4	Dhuvaran TPS	4	63.50	63.50	Apr,2007
5	Galeki GP S Mobile	1	3.00	3.00	Mar,2008
6	Galeki GP S Mobile	2	3.00	3.00	Mar,2008
7	Galeki GP S Mobile	3	3.00	3.00	Mar,2008
8	Kothalguri G P S Mobile	4	3.00	3.00	Mar,2008
9	Kothalguri G P S Mobile	5	3.00	3.00	Mar,2008
10	Kothalguri G P S Mobile	6	3.00	3.00	Mar,2008
11	Kothalguri G P S Mobile	7	3.00	3.00	Mar,2008
12	Bongaigaon TPS	1	60.00	60.00	Mar,2008
13	Bongaigaon TPS	2	60.00	60.00	Mar,2008
14	Bongaigaon TPS	3	60.00	60.00	Mar,2008
15	Bongaigaon TPS	4	60.00	60.00	Mar,2008
16	Patna (Karbigha)TPS	1	1.50	1.50	Mar,2008
17	Patna (Karbigha)TPS	2	1.50	1.50	Mar,2008
18	Patna (Karbigha)TPS	3	3.00	3.00	Mar,2008
19	Patna (Karbigha)TPS	4	7.50	7.50	Mar,2008
20	Harduaganj T P S	2	50.00	50.00	Jun,2008
21	Harduaganj T P S	4	60.00	60.00	Jun,2008
22	Diesel Power Station(CHD)	1To 5	2.00	2.00	Jun,2008
23	Amarkantak T P S	1	30.00	30.00	Sep,2008
24	Amarkantak T P S	2	30.00	30.00	Sep,2008
25	Obra T P S	3	50.00	50.00	Sep,2008
26	Obra T P S	4	50.00	50.00	Sep,2008
27	Obra T P S	5	50.00	50.00	Sep,2008
28	Faridabad T P S	2	60.00	60.00	Jan,2009
29	Faridabad T P S	1	60.00	60.00	Feb,2010
30	I Pstation Unit	2	62.50	62.50	Feb,2010
31	I Pstation Unit	3	62.50	62.50	Feb,2010

32	I Pstation Unit	4	62.50	62.50	Feb,2010
33	I Pstation Unit	5	60.00	60.00	Feb,2010
34	Chanderpura TPS	4	120.00	120.00	Sep,2010
35	Chanderpura TPS	5	120.00	120.00	Sep,2010
36	Chanderpura TPS	6	120.00	120.00	Sep,2010
37	Faridabad T P S	3	60.00	60.00	Sep,2010
38	Uran Gas Power Station	1	60.00	60.00	Nov,2010
39	Uran Gas Power Station	2	60.00	60.00	Nov,2010
40	Uran Gas Power Station	3	60.00	60.00	Nov,2010
41	Uran Gas Power Station	4	60.00	60.00	Nov,2010
42	Dhuvaran TPS	5	110.00	110.00	Feb,2011
43	Dhuvaran TPS	6	110.00	110.00	Feb,2011
44	Bhusawal TPS	1	50.00	50.00	Jun,2011
45	Paras T P S	2	55.00	55.00	Jun,2011
46	Parli T P S	1	20.00	20.00	Jun,2011
47	Parli T P S	2	20.00	20.00	Jun,2011
48	Barauni T P S	4	50.00	50.00	Mar,2012
49	Barauni T P S	5	50.00	50.00	Mar,2012
50	Harduaganj T P S	3	55.00	55.00	Mar,2012
	Total			**2398.00**	

Units Retired During 12th Plan (as on 31st March,2015)

Sl. No.	Name of Station/Plant	Unit No.	Installed Capacity (MW)	Retired (MW)	Retired in
1	DPL Thermal Power Station	1	30.00	30.00	May,2012
2	DPL Thermal Power Station	2	30.00	30.00	May,2012
3	Obra Thermal Power Station	6	94.00	94.00	June,2012
4	Nasik Thermal Power Station	1	125.00	125.00	June,2012
5	Nasik Thermal Power Station	2	125.00	125.00	June,2012
6	Satpura Thermal Power Station	3	62.50	62.50	Jan.2013
7	Satpura Thermal Power Station	5	62.50	62.50	May.2013
8	Satpura Thermal Power Station	2	62.50	62.50	March.2014
9	Satpura Thermal Power Station	4	62.50	62.50	March.2014
10	Satpura Thermal Power Station	1	62.50	62.50	July,2014
	Total			**716.50**	

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ANNEX-III

ANNEX REFERRED TO IN PART (d) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 522 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING POWER PROJECTS.

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Details of Under Construction Thermal Power Projects which are running behind schedule

Project Name/ Executing Agency	State	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Time over run (Months)	Expenditure Rs in Crs.	Till Date	Reasons for Delay
CENTRAL SECTOR									
Bongaigaon TPP	*Assam*	U-1	250	Jan-11	Jun-15	53	5042	Feb-15	Frequent bandhs, Heavy monsoon and slow civil works. Delay in supply of material by BHEL. Work came to halt due to violence and mass exodus of labour from site in 2011-12. Civil works got affected due to poor performance by civil contractors resulting in to their contract cancellation. Balance civil and structural works rewarded to NBCC on 29.09.14 .
		U-2	250	May-11	Dec-16	67			
		U-3	250	Sep-11	Mar-17	66			
Barh STPP- I	*Bihar*	U-1	660	Oct-13	Apr-17	42	10650	Feb-15	Delay due to contractual dispute of NTPC with Power machine & Technopromexport, Russia. *Orig. Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constraint. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine.
		U-2	660	Apr-14	Dec-17	44			
		U-3	660	Oct-14	Jun-18	44			
Muzaffarpur TPS Exp	*Bihar*	U-4	195	Jan-13	Feb-16	38	2807.61 Expenditure of 2 Units	Mar-15	Delay in award of main plant civil works. Delay in completion of civil works due to poor performance of civil agency. Delay in land acquisition & availability of Right of Approach.(ROA) for Raw Water Line. Delay in readiness of CHP , AHP and switch yard.
Nabi Nagar TPP	*Bihar*	U-1	250	May-13	Dec-15	31	4528.52	Mar-15	Delay in acquisition of Land. Slow progress of works by main plant civil agency M/s ERA resulting in delay in handing over civil fronts to erection agencies. Supply of equipment by BHEL. Agitation by villagers. Patches of land could not be acquired because of unwillingness of people to accept compensation. Financial crunch faced by CHP vendor(Techpro).
		U-2	250	Sep-13	Dec-16	39			
		U-3	250	Jan-14	Jun-16	29			
		U-4	250	May-14	Jun-17	37			
New Nabi Nagar TPP	*Bihar*	U-1	660	Jan-17	Jun-17	5	2960	Feb-15	Acquisition of balance land and relocation of homestead owners still living inside the project area.
		U-2	660	Jul-17	Sep-17	2			
		U-3	660	Jan-18	Jan-18	0			
Bokaro TPS "A" Exp.	*Jharkhand*	U-1	500	Dec-11	Mar-16	51	2840	Mar-15	Delay in supply of material by BHEL Delay in handing over of fronts to BHEL because of delay in shifting of switch yard and removal of under ground facilities. Delay in resolution of price variation issues. Readiness of CHP & NDCT.
Kudgi STPP Ph-I	*Karnataka*	U-1	800	Dec-15	Jul-16	7	7456	Feb-15	Delay in award of SG civil works. Delay in TG erection start. Stoppage of work on account of NGT order in 03/14. Unrest and violent agitation in 07/14 with exodus of manpower and stoppage of work.
		U-2	800	Jun-16	Dec-16	6			
		U-3	800	Dec-16	May-17	5			
Mouda STPS St-II	*Maharashtra*	U-1	660	Mar-16	Oct-16	7	3651	Feb-15	Slow progress works by main plant civil agency(IVRCL). Delay in supply and slow progress in erection activities of Boiler.
		U-2	660	Sep-16	Apr-17	7			
Solapur STPP	*Maharashtra*	U-1	660	May-16	May-17	12	4170	Feb-15	Delay in SG supply by BGR. Delay in Right of Use (RoU) for Raw water pipeline. Delay in readiness of civil fronts by M/s. IVRCL.
		U-2	660	Nov-16	Nov-17	12			
Vindhyachal TPP Ph-V	*MP*	U-13	500	Aug-15	Oct-15	2	1614	Feb-15	Delay in BOPs order. Delay in erection of boiler material.
Gadarwara STPP	*MP*	U-1	800	Mar-17	Jun-17	3	2489	Feb-15	Delay in balance land acquisition and ordering of balance BoP's. Delay in readiness of civil fronts due to villagers agitation.
		U-2	800	Sep-17	Nov-17	2			
Tuticorin JV	*TN*	U-2	500	Aug-12	Jul-15	35	6115.57 Expenditure of 2 Units	Mar-15	Change in design of foundations of main plant equipments. Slow progress of civil works. Shortage of man power. Delay in Availability of soft water and start of power. Delay in achievement of statutory clearances (wild life, forest clearance etc.,)

Monarchak CCPP	*Tripura*	ST	35.6	Jul-13	Jul-15	24	898.22 Expenditure of GT and ST	Mar-15	**Delay in award of civil work contract and supply of material by BHEL. Heavy monsoon. Delay in readiness of Gas pipe line and gas gathering station. Delay in readiness of DM, PT, CT, CW system etc.**
Agartala WHR	*Tripura*	ST-I	25.5	Dec-14	Jun-15	6	300.61	Feb-15	**Delay in readiness of civil fronts due to heavy rains. Delay in supply and erection of material.**
							Expenditure of 2 STs		
Unchahar St- IV	*UP*	U-6	500	Dec-16	Nov-17	11	368	Feb-15	**Delay in award of main plant civil work packages and BOPs.**
Meja STPP	*UP*	U-1	660	Jun-16	May-17	10	2721.78	Feb-15	**Delay in supply of boiler material by M/s BGR. Slow progress of main plant civil works.**
		U-2	660	Dec-16	Nov-17	11			
Raghunathpur TPP, Ph-I	*WB*	U-2	600	May-11	Dec-15	56	7335 Expenditure of 2 Units	Mar-15	**Delay in commissioning of Unit-1. Delay in Land acquisition for water & Rail corridor. Delay in erection of main plant equipments by RIL Law & Order Problem. Frequent stopage of work by local people. Replacement of bottom ring header. Delay due to damage of boiler insulation & NDCT-1.**
Raghunath-pur TPP, Ph-II	*WB*	U-3	660	Aug-17	Sep-18	13	554	Mar-15	**Delay in start of main plant civil works.**
		U-4	660	Jan-18	Mar-19	14			
Total Central Sector		**34**	**17846.1**						
*** Revised Schedule**									
STATE SECTOR									
Rayalseema TPP St-III	*AP*	U-6	600	Jul-14	Dec-16	29	2228.77	Mar-15	**Delay in start & completion of civil works and land acquisition. Delay in BoP works.**
Namrup CCGT	*Assam*	GT	70	Sep-11	Mar-16	54	329.1	Dec-14	**Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in rearward of civil and Electrical Mechanical & Instrumentation agency.**
		ST	30	Jan-12	Jun-16	53			
Barauni TPS Extn.	*Bihar*	U-1	250	May-14	Feb-16	21	3354	Mar-15	**Delay in obtaining Environmental clearance, Delay in readiness of CT, CW system etc. and acquisition of balance land for intake pump house, raw water line etc.**
		U-2	250	Jul-14	Jun-16	23			
Marwa TPP	*Chhattis-garh*	U-2	500	Jul-12	Jul-15	36	6684.06 Expenditure of 2 Units	Feb-15	**Initial delay is due to Change of award of Chimney. Delay in readiness of BOPs (CHP, AHP & 400 KV Switchyard etc.,) and Law & Order Problems, pilferage of material etc. Shortage of man power by M/s BGR.**
Sikka TPP Extn.	*Gujarat*	U-4	250	Jan-14	Dec-15	23	2823.97 Expenditure of 2 Units	Feb-15	**Delay in readiness of civil fronts and placement of BOPs Orders. Slow progress of erection of boiler & TG. Slow progress in BoPs specially CHP & AHP. Change of BTG erection agency. Delay in supply of material by BHEL.**
Bhavnagar CFBC TPP	*Gujarat*	U-1	250	Oct-13	Aug-15	22	3622.15	Feb-15	**Delay in readiness of civil fronts and non - sequential supply. Slow progress of BoPs. Delay in readiness of AHP and Lignite handling plant. Delay in availability of raw water.**
		U-2	250	Dec-13	Nov-15	23			
Bellary TPS	*Karna-taka*	U-3	700	Aug-14	Nov-15	15	4045.69	Mar-15	**Delay in awarding civil contract for main plant and BoPs. Dispute between AHP vendor and BHEL. Delay in supply of L.P. Rotor.**
Yermarus TPP	*Karna-taka*	U-1	800	Apr-14	Dec-15	20	9008.48	Mar-15	**Change in Orientation of marshalling yard, Repeated soil investigations due to change in plot plan and additional soil investigation at specific areas and IIIrd party vetting.**
		U-2	800	Oct-14	Apr-16	18			
Chandrapur TPS	*Mahara-shtra*	U-9	500	Sep-12	Aug-15	35	5947 Expenditure of 2 Units	Mar-15	**Delay in placement of BoPs order and delay in main plant equipment supply. Delay in readiness of BoPs and Heavy monsoon.**
Koradi TPP Expn.	*Mahara-shtra*	U-9	660	Jun-14	Jul-15	13	11764.23	Mar-15	**Delay in civil works. Delays in work progress due to heavy rain. Delay in readiness of BoPs (Cooling tower, AHP, CHP etc.) by M/s Lanco Infratech due to financial crunch.**
		U-10	660	Dec-14	Feb-16	14	Expenditure of 3 Units		
Parli TPP Expn.	*Mahara-shtra*	U-8	250	Jan-12	Oct-15	45	1669.85	Mar-15	**Delay in placement of BoP order. Delay in BTG supply. Delay in approval of drawings. Slow erection work. Slow progress of BoPs due to commercial dispute with M/s Sunil Hitech.**
Kalisindh TPS	*Rajasthan*	U-2	600	Mar-12	May-15	38	8521.77 Expenditure of 2 Units	Mar-15	**Delay in readiness of bunkers and coal mills and supply of balance material by M/s BGR.**
Chhabra STPP	Rajasthan	U-5	660	Jun-16	Apr-17	10	1621.77	Mar-15	**Slow progress of boiler erection.**
		U-6	660	Sep-16	Dec-18	27			
Suratgarh STPP	Rajasthan	U-7	660	Sep-16	Apr-17	7	2172.59	Mar-15	**Delay in receiving Marshalling yard coordinates from RITES, Shortage of man power.**
		U-8	660	Dec-16	Jul-17	7			

Kakatiya TPP Extn	*Telangana*	U-1	600	Jul-12	Nov-15	40	2705.04	Feb-15	**Delay in placement of order for BoP's & change of BoP contractor consortium leader, Delay in award of erection agency by BHEL. Delay in handing over of civil fronts by Techpro. Delay in finalisation of raw water reservoir location.**
Singareni TPP	*Telangana*	U-1	600	Feb-15	Jan-16	11	5350	Mar-15	**Delay in placement of order for BOPs.**
		U-2	600	Jun-15	Mar-16	9			
Anpara-D	*UP*	U- 6	500	Mar-11	Jun-15	51	5455.63	Mar-15	**Delay in placement of order for BOPs. Very slow progress of fire fighting work. Inadequate manpower deployment by BHEL. Slow work in AHP, CW system & FO system.**
		U-7	500	Jun-11	Sep-15	51			
Sagardighi TPP-II	*WB*	U-3	500	Jul-14	Sep-15	14	3206.15	Feb-15	**Slow progress in erection and supply of BTG material. Delay in placement of order for electrical erection work. Delay in readiness of AHP due to termination and rewarding contract.**
		U-4	500	Oct-14	Mar-16	17			
Total State Sector		**28**	**13860**						
PRIVATE SECTOR									
Bhavanapadu TPP Ph-I	*AP*	U-1	660	Oct-13	May-17	43	3257.2	Mar-15	**Work remained under suspension due to MoE&F order for a long time. After restart works hampered due to two cyclones . Agitation against State bifurcation. Slow progress of work at site due to financial problems.**
		U-2	660	Mar-14	Oct-17	43			
NCC TPP	*AP*	U-1	660	Mar-15	Jun-16	15	6367.43	Mar-15	**Delay in start and slow progress of civil works. Delay in supply & erection of material due to financial problem.**
		U-2	660	Jun-15	Nov-16	17			
Painampuram TPP	*AP*	U-2	660	Aug-14	Jul-15	11	9438.27	Feb-15	**Delay in start of TG civil work. Delay because of change in foundation design due to soil issue.**
							Expenditure of 2 units		
Thamminap-atnam TPP stage -II	*AP*	U-3	350	May-12	Aug-16	51	2481.914	Mar-15	**Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time.**
		U-4	350	Aug-12	Nov-16	51			
Vizag TPP	*AP*	U-1	520	Jun-13	Sep-15	27	6343.57	Feb-15	**Delay in readiness of transmission line for start up power. Slow progress of civil works, sea water intake and outfall system, CHP etc.. Delay in readiness of railway line. Delay due to damage because of cyclone.**
		U-2	520	Sep-13	Dec-15	27			
Akaltara TPP (Naiyara)	*Chhattis-garh*	U-3	600	Dec-12	Jun-16	42	15441	Dec-14	**Shortage of manpower, Agitation by Villagers. Delay in supply of material due to fund constraints.**
		U-4	600	Apr-13	Mar-17	47			
		U-5	600	Aug-13	Dec-17	52			
		U-6	600	Dec-13	Mar-18	51			
							Expenditure of 6 units		
Balco TPP	*Chhattis-garh*	U-1	300	Feb-11	Jun-15	52	3965	Jan-15	**Collapse of chimney. Delay in issuing consent to operate by the State Govt.**
		U-2	300	Nov-10	Sep-15	58			
Bandakhar TPP	*Chhattis-garh*	U-1	300	Dec-12	May-15	29	1513	Jan-15	**Delay in start of civil works. Work suffered due to financial problems. Delay in readiness of CHP / AHP and problem in generator stator.**
Binjkote TPP	*Chhattis-garh*	U-1	300	Aug-13	Dec-15	28	3717.05	Mar-15	**Delay in start of civil works. Delay in supply of the Boiler Drum. Delay due to stoppage of erection work for boiler & TG because of change of STG erection agencies.**
		U-2	300	Nov-13	Mar-16	28	Expenditure of 4 units		**Delay in start of civil works. Slow progress of pressure parts erection.**
Raikheda TPP	*Chhattis-garh*	U-2	685	Jan-14	Jul-15	18	9626.09	Jan-15	**Delay in start of civil works. Progress of various activities suffered some time due to financial problems.**
							Expenditure of 2 units		
Singhitarai TPP	*Chhattis-garh*	U-1	600	Jun-14	Mar-16	21	4734.26	Feb-15	**Delay in land acquisition. Slow progress of Boiler & TG erection. Delay due to financial problems.**
		U-2	600	Sep-14	Aug-16	23			
TRN Energy TPP	*Chhattis-garh*	U-1	300	Dec-13	Apr-16	28	2292	Sep-14	**Delay in start of civil works. Slow progress in erection works of boiler and T.G. Manpower shortage.**
		U-2	300	Apr-14	Mar-17	35			
Uchpinda TPP	*Chhattis-garh*	U-1	360	May-12	Jun-15	37	9249.15	Feb-15	**Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BOPs. Delay in readiness of start up power. Delay due to financial problem.**
		U-2	360	Nov-12	Aug-15	33			
		U-3	360	Feb-13	Dec-15	34			
		U-4	360	Jul-13	May-16	34			
Salora TPP	*Chhattis-garh*	U-2	135	Sep-11	Jul-15	46	2386.89	Mar-15	**Delay in commissioning of unit-1. Agitation by villagers at site. Delay in supply of BTG and CHP material. Non cooperation of BTG supplier in commissioning activities.**
							Expenditure of 2 units		
Tori TPP	*Jharkhand*	U-1	600	Jun-13	Dec-17	54	3761.82	Feb-15	**Law and order problem. Delay in start of civil work & slow progress of works. Delay in MOEF clearance for Unit-2. Work held up after cancellation of earlier allotted coal blocks.**
		U-2	600	Jan-15	Jun-18	41			

Nasik TPP Ph-I	*Mahara-shtra*	U-2	270	Apr-12	Sep-15	41	6364.71	Feb-15	**Delay in readiness of Railway siding .Non-sequential supply of BTG material & Civil fronts readiness. Payment issue with BHEL. Readiness of Mills, HFO, CHP & AHP, ducting insulation etc.**
		U-3	270	Jun-12	Jun-17	60	Expenditure of 5 units		**Non-Acceptance of BTG material by Project Authorities. No work is going at site due to financial problems.**
		U-4	270	Aug-12	Nov-17	63			
		U-5	270	Oct-12	Mar-18	65			
Anuppur TPP Ph-I	*MP*	U-2	600	Aug-13	Feb-16	30	7300 Expenditure of 2 units	Feb-15	**Delay in start and slow progress of civil works. Delay in supply of Drum. Readiness of insulation of boiler and ESP.**
Mahan TPP	*MP*	U-2	600	Sep-11	Jun-16	57	7192.58 Expenditure of 2 units	Feb-15	**Very slow progress due to Non availability of coal block/Coal Linkage.**
Seoni TPP Ph-I	*MP*	U-1	600	Mar-13	Mar-16	36	3773.19	Jan-15	**Delay in readiness of civil fronts. Chimney readiness. Delay in supply of boiler and TG material due to financial problem. Presently no work is going on at site.**
Niwari TPP	*MP*	U-2	45	May-14	Mar-16	22	290	Sep-14	**Delay due to stoppage of work at site.**
Ind Barath TPP (Orissa)	*Orissa*	U-1	350	Sep-11	Jun-15	45	3968	Mar-15	**Delay due to heavy rains. Delay in readiness of transmission line for start up power.**
		U-2	350	Dec-11	Nov-15	47			
Malibrahmani TPP	*Orissa*	U-1	525	Dec-12	Aug-16	44	5329.75	Sep-14	**Delay in land acquisition and delay in supply of TG hall structures. Slow progress due to financial problem.**
		U-2	525	Feb-13	Dec-16	46			
Talwandi Sabo TPP	*Punjab*	U-2	660	Jan-13	May-15	28	9447.07 Expenditure of 3 units	Mar-15	**Delay in readiness of Civil fronts. Delay in readiness of AHP, Chimney, Mills, Cooling tower due to shortage of man power. Boiler insulation work delayed due to heavy rains.**
		U-3	660	May-13	Aug-15	27			
Melamaruthur TPP	*TN*	U-2	600	Mar-12	Sep-15	42	5710.91 Expenditure of 2 units	Mar-15	**Delay in supply of main plant Equipment. Delay due to manpower shortage & readiness of switchyard & DM Plant. Change in policy for supply of sand and use of ground water. Delay in disbursement of additional loan by bankers.**
Tuticorin TPP (Ind- Barath)	*TN*	U-1	660	May-12	Sep-17	64	1500	Mar-15	**Late start and slow progress of civil works and delay in supply of boiler structural material at site.**
Prayagraj (Bara) TPP	*UP*	U-1	660	Feb-14	Aug-15	18	11540.39	Mar-15	**Delay in BTG supply, Raw water pipe line readiness and transmission line readiness for start up power. Progress of work at site delayed due to financial problems.**
		U-2	660	Jul-14	Jan-16	18			
		U-3	660	Dec-14	May-16	17			
Lalitpur TPP	*UP*	U-1	660	Oct-14	Jun-15	8	12546.25	Mar-15	**Delay due to heavy rains, delay in TG erection start, boiler insulation and fuel oil system readiness etc. Financial problems**
		U-2	660	Feb-15	Dec-15	10			
		U-3	660	Jun-15	Sep-16	15			
Total Private Sector		**52**	**25415**						
Grand Total		**114**	**57121.1**						

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.528
ANSWERED ON **30.04.2015**

ELECTRIFICATION OF VILLAGES

†*528. SHRI VIKRAM USENDI:
DR. BANSHILAL MAHATO:

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

(a) whether a large number of villages in the country are still unelectrified and if so, the details thereof along with the action taken thereon, State-wise;

(b) the funds allocated and utilised for rural electrification purpose during each of the last three years;

(c) the duration for which power supply is being provided to farmers for agricultural purpose, State-wise;

(d) whether certain States are implementing rural feeder segregation programme; and

(e) if so, the details of such programme along with the success achieved by them in improving the availability and quality of power supply in rural areas as a result 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 (e) : A Statement is laid on the Table of the House.

****

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 528 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING ELECTRIFICATION OF VILLAGES.

****

(a) : Government of India had launched the erstwhile Rajiv Gandhi Grameen Vidyutikaran Yojana for creation of Rural Electricity Infrastructure in April 2005. So far, 921 projects have been sanctioned in the country during the X, XI and XII Plan. As on 31.03.2015, electrification works in 1.10 lakh un-electrified villages and intensive electrification of 3.15 lakh villages have been completed. State-wise details are at **Annex-I.**

Further, the Government of India has approved Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) in December, 2014 with an outlay of Rs. 43033 crore. The erstwhile RGGVY has been subsumed into DDUGJY as RE component of the scheme. Under the scheme, all un-electrified villages/habitations irrespective of population criterion can be covered for electrification in accordance with the guidelines of the scheme.

Under the scheme, Detailed Project Reports (DPRs) for Rs.8853.12 crores relating to villages/households electrification have already been approved.

(b) : Details of fund allocation and capital subsidy disbursed under the erstwhile RGGVY including DDUGJY during last three years are as follows:

Rs. in crore

Sl. No.	Year	Allocation of Funds	Funds Released
1.	2012-13	2492.02	697.94
2.	2013-14	3137.65	2938.52
3.	2014-15	3386.38	3374.41

(c) : The data regarding duration of power supply to farmers for agriculture purpose is not available. However, the average power supply in rural areas varies between States. State-wise details of average power supply for the month of February, 2015, are at **Annex-II.**

(d) & (e) : Andhra Pradesh, Gujarat, Haryana, Madhya Pradesh, Maharashtra, Punjab and Rajasthan are implementing rural feeder segregation programme under their own State Schemes.

Recently, the Government of India has launched Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) with the objectives of feeder segregation and strengthening of sub-transmission and distribution systems in the rural areas. Under DDUGJY, Rs. 2845.96 crores have so far been allocated for feeder separation in Uttar Pradesh, Madhya Pradesh, West Bengal, Tamil Nadu and Himachal Pradesh.

****

ANNEX-I

ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 528 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING ELECTRIFICATION OF VILLAGES.

****

State-wise coverage and achievement of un-electrified villages and intensive electrification of electrified villages for the projects sanctioned under erstwhile RGGVY

As on 31.03.2015

Sl. No.	State	No. of Projects	UE Villages			IE villages		
			Coverage	Ach.	Balance	Coverage	Ach.	Balance
1	Andhra Pr.*	16	0	0	0	16114	16114	0
2	Arunachal Pr.	16	2089	2089	0	1306	1306	0
3	Assam	39	9358	8328	1030	23111	12852	10259
4	Bihar	81	27015	23253	3762	40453	7819	32634
5	Chhattisgarh	22	1734	1302	432	19327	15337	3990
6	Gujarat*	25	0	0	0	16144	16144	0
7	Haryana*	21	0	0	0	5762	5137	625
8	Himachal Pr.	12	90	89	1	7896	7896	0
9	J & K	17	283	212	71	3267	2905	362
10	Jharkhand	39	18746	18294	452	24358	6050	18308
11	Karnataka	36	55	54	1	33103	23726	9377
12	Kerala*	14	0	0	0	1166	1109	57
13	Madhya Pradesh	86	1300	780	520	74236	33092	41144
14	Maharashtra*	35	0	0	0	36462	36146	316
15	Manipur	15	1087	808	279	2968	1322	1646
16	Meghalaya	7	1867	1841	26	3090	2938	152
17	Mizoram	16	170	154	16	517	517	0
18	Nagaland	22	138	102	36	1949	1152	797
19	Odisha	63	17524	14380	3144	68214	26767	41447
20	Punjab*	17	0	0	0	6297	6297	0
21	Rajasthan	68	4163	4162	1	58615	33218	25397
22	Sikkim	12	25	25	0	413	405	8
23	Tamilnadu*	29	0	0	0	10402	9673	729
24	Telangana*	10	0	0	0	9176	9176	0
25	Tripura	4	170	144	26	1430	652	778
26	Uttar Pradesh	150	29278	27808	1470	90460	3533	86927
27	Uttarakhand	13	1514	1514	0	10090	10090	0
28	West Bengal	36	4198	4185	13	29557	23585	5972
	Total	921	120804	109524	11280	595883	314958	280925

*In the States of Andhra Pradesh, Gujarat, Haryana, Kerala, Maharashtra, Punjab, Tamil Nadu and Telangana no un-electrified village was proposed in the DPRs by these States. However, intensive electrification of already electrified villages are being undertaken in these States.

****

ANNEX-II

ANNEX REFERRED TO IN PART (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 528 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING ELECTRIFICATION OF VILLAGES.

****

State-wise average power supply during the month of February 2015

Sl. No.	State	Average Hours of Power supply
1	Arunachal Pradesh	14
2	Andhra Pradesh	22
3	Assam	18
4	Bihar	14
5	Chhattisgarh	23
6	Gujarat	23
7	Haryana	11
8	Himachal Pradesh	23
9	J & K	17
10	Jharkhand	13
11	Karnataka	17
12	Kerala	23
13	Madhya Pradesh	21
14	Maharashtra	23
15	Manipur	15
16	Meghalaya	15
17	Mizoram	20
18	Nagaland	14
19	Odisha	19
20	Punjab	22
21	Rajasthan	19
22	Sikkim	22
23	Tamilnadu	23
24	Telangana	18
25	Tripura	21
26	Uttar Pradesh	10
27	Uttarakhand	20
28	West Bengal	20

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.531
ANSWERED ON 30.04.2015

ULTRA MEGA POWER PROJECTS

*531. SHRI M. MURALI MOHAN:
SHRI PRABHAKAR REDDY KOTHA:

Will the Minister of POWER
be pleased to state:

(a) the details of existing Ultra Mega Power Projects (UMPPs) in the country;

(b) whether the Union Government has received fresh requests from the State Governments/UTs to set up UMPPs, if so, the details of proposals received and approved during each of the last three years, State/UT-wise and the action taken thereon;

(c) the power generation capacity of the existing and proposed UMPPs; and

(d) whether any deficiencies have been found in the implementation of UMPPs and if so, the details thereof along with the corrective action taken thereon?

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.

****

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO. 531 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING ULTRA MEGA POWER PROJECTS.

****

(a) & (b) : Four UMPPs, viz, Sasan in Madhya Pradesh, Mundra in Gujarat, Krishnapatnam in Andhra Pradesh and Tilaiya in Jharkhand have been awarded to the successful bidders so far. Mundra and Sasan UMPP have been fully commissioned. The status of awarded UMPPs is at Annex-I. The status of other identified UMPPs is at Annex-II.

(c) : Installed Capacity of these UMPPs is about 4000 MW each.

(d) : Tilaiya UMPP and Krishnapatnam UMPP are not operational due to reasons given in Annex-I. A Joint Monitoring Committee (JMC) headed by Member (Thermal), CEA and co-chaired by Principal Secretary (Energy) of the host State has been constituted to review the progress of implementation.

****

ANNEX-I

ANNEX REFERRED TO IN PARTS (a) & (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 531 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING ULTRA MEGA POWER PROJECTS.

****

STATUS OF AWARDED ULTRA MEGA POWER PROJECTS

Sl.No.	Name of UMPP	Location	Status
1	Sasan UMPP (6x660 MW)	Sasan in District Singrauli. Madhya Pradesh	Project awarded and transferred to M/s. Reliance Power Ltd. on 07.08.2007. Project is fully commissioned.
2	Mundra UMPP (5x800 MW)	Mundra in village Tundawand in District Kutch, Gujarat	Project awarded and transferred to M/s. Tata Power Ltd. on 24.04.2007. Project is fully commissioned.
3	Krishnapatnam UMPP (6x660 MW)	Krishnapatnam in District Nellore, Andhra Pradesh	The Project awarded and transferred to M/s. Reliance Power Ltd. on 29th January, 2008. The developer has stopped work at site, citing new regulation of coal pricing in Indonesia. The procurers have issued termination notice. The matter is subjudice.
4	Tilaiya UMPP (6x660 MW)	Near Tilaiya village in Hazaribagh and Koderma Districts, Jharkhand	Project awarded and transferred on 7th August, 2009 to M/s Reliance Power Ltd (RPL). Out of the total land, 470 acre (186 acre for power plant and 284 acre for ash dyke) of private land has been acquired by State Government. Physical possession yet to be handed over to developer.

****

ANNEX-II

ANNEX REFERRED TO IN PARTS (a) & (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 531 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING ULTRA MEGA POWER PROJECTS.

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Status of other identified UMPPs:

Sl. No.	Name of UMPP	Location	Status
		Odisha	
1.	Bedabahal	Bedabahal in Sundergarh District.	Bid has been cancelled and fresh bid would be issued in Financial year 2015-16.
2.	1st additional UMPP in Orissa	Bijoypatna in Chandbali Tehsil of Bhadrak district for coastal location	Site identified.
3.	2nd additional UMPP in Orissa	Narla & Kasinga sub division of Kalahandi District for inland location	Site identified.
		Chhattisgarh	
4.	Chhattisgarh	Near Salka & Khameria villages in District Surguja.	RfQ issued on March 2010 and withdrawn on Oct. 2013 due to coal blocks falling in inviolate area. Now, Ministry of Coal vide letter dated 8.4.2015 has tentatively recommended coal blocks.
		Tamil Nadu	
5.	Tamil Nadu	Village Cheyyur, District Kancheepuram.	Bid has been cancelled and fresh bid would be issued in Financial year 2015-16.
6.	2nd Tamil Nadu UMPP	Site Not finalized	---
		Jharkhand	
7.	2nd Jharkhand UMPP	Husainabad, Deoghar Distt	Ministry of Coal vide letter dated 8.4.2015 has tentatively recommended coal blocks.
		Gujarat	
8.	2nd Gujarat UMPP	--	Location not finalized.
		Karnataka	
9.	Karnataka	State Govt. has identified a suitable site in Niddodi village of Mangalore taluka Dakshina Kannada District.	Site visit report sent by CEA to Govt. of Karnataka for Niddodi village of Mangalore taluka Dakshina Kannada District highlighting issues w.r.t the site and requested for quick resolution of the issues.
		Maharashtra	
10.	Maharashtra	--	Site could not be firmed up due to resistance by local people.
		Bihar	
11.	Bihar	Kakwara in Banka Distt	Ministry of Coal vide letter dated 8.4.2015 has tentatively recommended coal blocks.
		Uttar Pradesh	
12.	UMPP in Uttar Pradesh	Site not finalized.	A team of CEA and PFC officials visited the sites. CEA submitted site report to UP Govt.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.532
ANSWERED ON 30.04.2015

POWER PROJECTS BY DVC

†*532. DR. RAVINDRA KUMAR RAY:

Will the Minister of POWER
be pleased to state:

(a) the details of the power generating plants established/proposed to be established by the Damodar Valley Corporation (DVC);

(b) whether the DVC power plants are able to generate the targeted quantity of power;

(c) if so, the power generated during the last three years along with the criteria laid down for its distribution;

(d) whether there has been some complaints in regard to the distribution of power and transportation of ash in these plants; and

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

A N S W E R

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

(SHRI PIYUSH GOYAL)

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

****

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 532 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING POWER PROJECTS BY DVC.

****

(a) to (c) : As per the 4th Proviso of Section 14 of Electricity Act, 2003, DVC is a Deemed Licensee and can Generate, Transmit and Distribute Electricity in its Command Area falling under two contiguous States of West Bengal and Jharkhand. Accordingly, DVC supplies power to its consumers in the Command Area. After fulfilling the power demand of the consumers in the Command Area of West Bengal and Jharkhand, DVC also supplies power to beneficiaries through Open Access. The details of power projects along with the generation/distribution during last three years are given at Annex-I and Annex-II.

(d) : No, Madam.

(e) : In view of (d) above, the question does not arise.

****

ANNEX-I

ANNEX REFERRED TO IN PARTS (a) TO (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 532 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING POWER PROJECTS BY DVC.

****

Type of Power	Project	Installed capacity (MW)	Generation (MU) FY 12-13	Generation (MU) FY 13-14	Generation (MU) FY 14-15
Thermal	Mejia Thermal Power Station (MTPS)	2340 MW (4x210+2x250 +2x500 MW)	12341.0	13179.5	11638.8
	Bokaro Thermal Power Station-B (BTPS 'B')	630 MW (3x210 MW)	3107.0	1737.7	1634.4
	Chandrapura Thermal Power Station (CTPS)	890 MW (3x130 + 2x250 MW)	5548.3	4831.2	4976.7
	Durgapur Thermal Power Station (DTPS)	350 MW (1x140 +1x210 MW)	2054.8	1878.8	1302.0
	Durgapur Steel Thermal Power Station (DSTPS)	1000 MW (2x500 MW)	2405.3	4429.3	3862.7
	Koderma Thermal Power Station (KTPS)	1000 MW (2X500 MW)	----	1501.0	1822.8
	Raghunathpur Thermal Power Station (RTPS Ph-I)	1200 MW (2x600 MW)			
	Raghunathpur Thermal Power Station (RTPS Ph-II)	1320 MW (2x660 MW)			
	Bokaro Thermal Power Station-A (BTPS 'A')	500 MW (1x500 MW)			
Hydel	Maithon Hydel Station	63.2 MW (2x20 MW+1x23.2 MW)	88.682	97.926	137.2671
	Panchet Hydel Station	80 MW (2x40 MW)	110.657	127.696	129.142
	Tilaiya Hydel Station	4 MW (2x2 MW)	4.148	4.677	9.595

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ANNEX-II

ANNEX REFERRED TO IN PARTS (a) TO (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 532 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING POWER PROJECTS BY DVC.

****

After fulfilling the power demand of the consumers in the Command Area of West Bengal and Jharkhand, DVC also supplies power to other beneficiaries through Open Access.

Financial Year	Total Generation in MU	power to West Bengal as % of total generation	% power to Jharkhand as % of total generation	% power to other Beneficiaries as % of total generation
2012-13	25456.0	27%	35%	38%
2013-14	27557.0	26%	35%	39%
2014-15	25237.0	28%	39%	33%

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.536
ANSWERED ON **30.04.2015**

INVESTMENT REQUIRED FOR POWER SECTOR

*536. SHRI MAHEISH GIRRI:
SHRI AJAY MISRA TENI:

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

(a) the total investment assessed for providing electricity to every household in the country along with action taken thereon;

(b) whether the power projects proposed to be established with the public/ private investment during the 11th and 12th Plan period have been established and funds utilised and if so, the details thereof; and

(c) whether the expenditure proposed to be incurred on the transmission of power has been assessed for 12th and 13th Plan by the Government and if so, the details thereof, State-wise?

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) : A Statement is laid on the Table of the House.

****

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO. 536 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING INVESTMENT REQUIRED FOR POWER SECTOR.

****

(a) : Government of India has approved Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) in December, 2014 with a total outlay of Rs. 43033 crore for feeder separation, augmentation of sub-transmission & distribution networks and metering, including electrification in rural areas. In addition to this, Government has also approved Integrated Power Development Scheme (IPDS) with an outlay of Rs. 32612 crore for augmentation of sub-transmission & distribution networks and metering in urban areas.

(b) : Details of capacity addition targets and achievements for power projects in the Central, State and Private sectors are given below in Table 1 for the 11th Plan and Table 2 for the 12th Plan:

Table 1

Details of sector wise Capacity Addition Targets/Achievements during the 11th Plan						
Sector wise	THERMAL		HYDRO		Total	
	Target	Achievement	Target	Achievement	Target	Achievement
Central	24840	12790	8654	1550	33494	14340
State	23301	14030.4	3482	2702	26783	16732.4
Private	11552	21719.5	3491	1292	15043	23011.5
Total	**59693**	**48539.9**	**15627**	**5544**	**75320**	**54083.9**

Table 2

Details of sector wise Capacity Addition Targets/Achievements during the 12th Plan (as on 24.04.2015)						
Sector wise	THERMAL		HYDRO		Total	
	Target	Achievement	Target	Achievement	Target	Achievement
Central	14877.6	9342.5	6004	2224.1	20881.6	11566.6
State	13922	12119.1	1608	102	15530	12221.1
Private	43540	36857.5	3285	334	46825	37191.5
Total	**72339.6**	**58319.1**	**10897**	**2660.1**	**83236.6**	**60979.2**

(c) : The expenditure assessed to be incurred on the transmission of power is Rs.1,92,606.42 crore for the 12th Five Year Plan. State-wise details are at Annex. The expenditure to be incurred on transmission of power for 13th Five Year Plan has not yet been assessed.

****

ANNEX

ANNEX REFERRED TO IN PART (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 536 ANSWERED IN THE LOK SABHA ON 30.04.2015 REGARDING INVESTMENT REQUIRED FOR POWER SECTOR.

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STATE-WISE FUND REQUIREMENT FOR TRANSMISSION SCHEMES(12th PLAN)

(220 kV & above)

(All figures in Rs. Crores)

Sl. No.	Name of the Utility	Transmission Works
		Total
I	**Central Sector**	
	PGCIL	**102034.00**
	DVC	**1126.78**
	Total Central Sector	**103160.78**
II	**State Sector**	
a.	**Northern Region**	
1	DTL	**1151.19**
2	HPPTCL	**1627.00**
3	HVPNL	**1888.97**
4	PDD,J&K	**456.49**
5	PSTCL	**2813.04**
6	RRVPNL	**10437.41**
7	UPPTCL	**6798.00**
8	Uttarakhand	**1162.34**
b.	**Western Region**	
1	CSPTCL	**1135.46**
2	GETCO	**6064.00**
3	GOA	**142.01**
4	MPPTCL	**2677.53**
5	MSETCL	**6387.00**
c.	**Southern Region**	
1	APTRANSCO	**11817.30**
2	KPTCL	**7629.77**
3	KSEB	**1738.21**
4	TANTRANSCO	**12542.89**
d.	**Eastern Region**	
1	BPTCL	NA
2	OPTCL	**4930.38**
3	JSEB	NA
4	WBSETCL	**5467.50**
5	Sikkim	NA
e.	**N-E Region**	
1	Arunachal Pradesh	NA
2	ASEB	**1682.02**
3	Manipur	NA
4	Mizoram	**421.95**
5	Nagaland	NA
6	Tripura	**475.18**
	Total all India	**192606.42**

*- includes 132kV also

Data revised by respective utility up to July 2014

NA- Not Applicable

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.5993
ANSWERED ON **30.04.2015**

PROJECTS UNDER THDC

†5993. SHRIMATI MALA RAJYA LAXMI SHAH:

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

(a) the status of the first/second phase of the ongoing Tehri/hydel power project under Tehri Hydro Development Corporation (THDC) along with the expenditure incurred/estimated to be incurred in these phases;

(b) whether the electricity is being generated from the project;

(c) if so, the details of power generated since its inception along with the criteria laid down for the distribution of income generated therefrom;

(d) the details of persons rehabilitated along with the funds sanctioned in this regard along with demand pending for rehabilitation; and

(e) the security measures adopted by THDC to protect the lives and property of those living in the vicinity of the power project along with the amount spent therefor?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : Tehri hydro Power Complex comprises of three projects as per details given below:

Sr. No.	Name of Project	Present Status	Estimated Cost (Rs. in Cr.)	Expenditure Incurred till Mar'15 (Rs. in Cr.)
1.	Tehri HPP (1000 MW)	Under Operation (Commissioned in 2006-07)	8392.45 (Completion Cost)	8392.45
2.	Koteshwar HEP (400 MW)	Under Operation (Commissioned in 2011-12)	2620.21 (RCE under approval)	2747.50
3.	Tehri PSP (1000 MW)	Under Construction	2987.86 (Apr'10 PL)	1189.02

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(b) & (c) : Electricity is being generated from Tehri HPP since 2006-07 and Koteshwar Hydro Electric Project (HEP) since 2011-12. Year wise details of power generated from both plants are as under:

Year	Energy Generated (MU)	
	Tehri HPP (1000 MW)	Koteshwar HEP (400 MW)
2006-07	891.37	-
2007-08	2663.58	-
2008-09	3164.23	-
2009-10	2116.79	-
2010-11	3116.03	-
2011-12	3983.65	607.60
2012-13	3101.98	1164.05
2013-14	4060.43	1521.83
2014-15	3004.01	1210.17

Part of the income generated (Profit After Tax) from these plants is paid to Government of India and Government of Uttar Pradesh in lieu of their Equity investment in THDCIL and the remaining is re-invested in the company for development of future projects.

(d) : The rehabilitation work is done by THDCIL under the guidance of Government of Uttarakhand through the Deputy Magistrate (Tehri)/Director Rehabilitation, Tehri Dam Project, New Tehri. As per records of Director Rehabilitation, 5291 urban families & 5299 rural families have been rehabilitated. Expenditure of **Rs. 1526** crore has been incurred on the rehabilitation work. Funds for Collateral Damage, connectivity, establishment charges of Rehabilitation Directorate etc. are provided to Rehabilitation Directorate as per appropriate demand from Deputy Magistrate/Director Rehabilitation.

(e) : Security measures include, inter alia, installation of alarms at Tehri & Koteshwar projects; erection of warning sign boards; deployment of vehicles with loudspeakers for making announcement of reservoir and downstream lands during monsoon; regular reservoir surveys to identify potential slide zones so as to take timely precautionary measures; strengthening and widening of roads; protection works for Nallahs; stabilization of slopes etc. An approximate expenditure of Rs.70.50 lacs has been incurred on above activities till date.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6021
ANSWERED ON 30.04.2015

GOVERNMENT LAND FOR POWER PROJECTS

6021. SHRI NANDI YELLAIAH:

Will the Minister of POWER
be pleased to state:

(a) whether the Government proposes to set up power projects in Telangana; and

(b) if so, the details thereof including the areas identified for the purpose and power proposed to be generated therefrom with further action taken thereon?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : NTPC has planned to set up a coal based thermal power station of 4000 MW capacity in two stages of 2x800 MW (Stage-I) and 3x800 MW (Stage-II) in Telangana.

The main Plant of Stage-I (2x800 MW) is to be set up within Ramagundam Station. The Feasibility Report for Stage-I has been approved on 31.10.2014 and Notice Inviting Tender (NIT) has been issued on 16.02.2015.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6049
ANSWERED ON 30.04.2015

R&D IN POWER SECTOR

6049. SHRI B. VINOD KUMAR:

Will the Minister of POWER
be pleased to state:

(a) the existing high power short circuit facilities and CPRI testing facilities available in the country;

(b) whether the Government proposes to augment high power short circuit facilities and establishment of new test facilities of CPRI for research and development in the power sector; and

(c) if so, the details thereof along with the facilities proposed to be set up/ augmented under the approved projects?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : The existing high power short circuit facilities and CPRI testing facilities available in the country are indicated in Annex-I.

(b) & (c) : Details of the projects approved under 12th Five Year Plan for augmentation of high power short circuit facilities and establishment of new test facilities in CPRI are given in Annex-II.

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 6049 ANSWERED IN THE LOK SABHA ON 30.04.2015.

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The existing high power short circuit facilities and CPRI testing facilities available in the country are as under:-

High Power Laboratory at CPRI, Bangalore, is equipped with 2500 MVA short circuit generators and facilitates evaluation and certification of EHV circuit breakers, power transformers, current transformers, isolators, line (wave) traps, reactors, insulator strings, etc. The transformers up to 250 MVA and EHV circuit breakers up to 63kA, 400kV ratings can be tested in this Laboratory.

The Switchgear Testing & Development Station (STDS) of CPRI at Bhopal provides facilities for evaluation and certification of EHV circuit breakers, power transformers, isolators, line (wave) traps, reactors, insulator strings etc., using 100 MVA on-line Evaluation Station and 1500 MVA short circuit generator facility. Transformers upto 40 MVA, 132/33kV class can be tested at CPRI, Bhopal.

Ultra High Voltage (UHV) Research Laboratory at Hyderabad is a specialized facility for testing UHV research, and Thermal Research Centre (TRC) Unit at Koradi provides facilities in the areas of Thermal Power Plants and associated components.

Regional Testing Laboratory (RTL) Unit at Noida, provides limited test facilities for low voltage, medium voltage cables and capacitors only. Regional centres at Kolkata & Guwahati, have limited test facilities for transformer oil analysis only.

In addition, the National High Power Test Laboratory (NHPTL), a joint venture of Powergrid, NTPC, NHPC, DVC and CPRI is under construction at Bina in Madhya Pradesh. This is an on-line short circuit testing facility for testing transformers of 315 MVA capacity, in the first phase, and beyond this in the second phase.

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ANNEX-II

ANNEX REFERRED TO IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO. 6049 ANSWERED IN THE LOK SABHA ON 30.04.2015.

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The Government has approved augmentation of high power short circuit facilities and establishment of new test facilities in CPRI for the 12th Five Year Plan, as under:-

(a) Augmentation of High Power Short Circuit Test Facilities by installation of two additional 2500 MVA Generators with associated equipment with an out lay of Rs.640 crore.

Sl. No.	Name of the projects	Location
1.	Augmentation of High Power Short Circuit Test facilities by installation of two Additional 2500 MVA Generators with associated equipment at High Power Laboratory, CPRI	Bangalore
2.	Establishment of "350 MVA on line Short Circuit Test Station" at UHV Research Laboratory	Hyderabad
3.	Establishment of Short Circuit testing transformers, Excitation System for existing Generator	Bangalore

(b) Establishment of New Test Facilities with an out lay of Rs.356.10 Crore.

Sl. No.	Name of the projects	Location
1.	Establishment of Transmission Line Tower Testing Station and Associated Test Facilities	Bangalore & Hyderabad
2.	Augmentation of test facilities at STDS	Bhopal
3.	Augmentation of Pre-Qualification Test Facilities	Bangalore
4.	Establishment and augmentation of Short Circuit Test Facilities	Bangalore
5.	Relocation and Augmentation of Thermal Research Centre (TRC) Nagpur and Expansion of the Nagpur Unit	Nagpur
6.	Enhancing Test Facilities of Regional Oil Testing Laboratories including Relocation of RTL-Kolkata	Bangalore, Noida, Hyderabad, Bhopal, Kolkata & Guwahati
7.	Establishment of 40 KA continuous current Temperature Rise test facility at HPL	Bangalore
8.	Setting up Regional Testing Laboratory in Western Region	Nashik
9.	Centre of Excellence for Non-Destructive Testing & Evaluation of Power Plant Components.	Bangalore
10.	Establishment of Phasor Measurement Unit (PMU) System Testing and Calibration Laboratory	Bangalore
11.	**Smart Grid Research Laboratory**	Bangalore

(c) Augmentation of existing facilities and setting up of new facilities with an out lay of Rs.105.90 Crore.

Sl. No.	Name of the projects	Location
1.	Upgradation of High Voltage/Ultra High Voltage Test facilities	Bangalore
2.	Upgradation of Real Time Digital Simulator	Bangalore
3.	Augmentation of energy meter & calibration laboratory	Bangalore, Bhopal & Noida
4.	Augmentation of Protocol and Meter Testing Laboratory	Bangalore
5.	Establishment of test facility for a) Solar PV based Grid tied Inverter systems (upto 500 kVA) and b) Solar PV modules (up to 500 Wp)	Both at Bangalore
6.	Augmentation, Modernization and Capacity Addition of battery, Ingress protection and Illumination test facilities	Bangalore
7.	Augmentation & Modernization of Diagnostics, Cables, Capacitors, Temperature Rise test, Environmental test facilities	Bangalore

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6058
ANSWERED ON 30.04.2015

CONFERENCE BY POWER GRID CORPORATION

6058. DR. SHRIKANT EKNATH SHINDE:
DR. C. GOPALAKRISHNAN:
SHRI KALIKESH N. SINGH DEO:
SHRI RAMA KISHORE SINGH:
SHRI NAGENDRA KUMAR PRADHAN:
SHRI VINAYAK BHAURAO RAUT:
SHRI RAHUL SHEWALE:

Will the Minister of POWER
be pleased to state:

(a) whether the Power Grid Corporation of India has recently organised the International exhibition and Conference GRIDTECH;

(b) if so, the details thereof including participants;

(c) whether any transmission and distribution system have been found suitable for our transmission and distribution network;

(d) if so, the details in this regard; and

(e) the manner in which the said conference and exhibition has been beneficial for our transmission and distribution network?

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. Power Grid Corporation of India (PGCIL), in association with Central Board of Irrigation & Power (CBIP) & Indian Electrical & Electronics Manufacturers Association (IEEMA), organized GRIDTECH-2015: International Exhibition and Conference on April 8-10, 2015 at Pragati Maidan, New Delhi.

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The event was attended by officers of the International/National manufacturers, various power sector utilities (Transco as well as Discoms), Central Electricity Authority (CEA), Central Electricity Regulatory Commission (CERC), State Regulatory Commissions, academicians, research institutions etc.

(c) to (e) : Various new technology products in the field of transmission and distribution were exhibited at GRIDTECH, which are suitable for application in Indian system. Notable among them are the 765kV & 1200kV equipment like isolators, line hardware fittings and accessories, insulators, transmission line erection tools, Gas Insulated Switchgears(GIS), underground GIS substations, High temperature low sag conductors, HVDC transformers, Phasor measurement units, live line maintenance and robotic based line maintenance tools, advanced metering infrastructure, outage management system etc. The exhibition along with concurrent conferences provided a unique opportunity for the power utilities, planners, policy makers, regulators, research institutes, academicians, investors, and consultants etc. to get exposed to emerging technologies in the field of transmission, distribution, renewable integration, smart grid etc.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6067
ANSWERED ON **30.04.2015**

PERFORMANCE OF POWER GRID CORPORATION

†6067. SHRI KAPIL MORESHWAR PATIL:

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

(a) the role of Power Grid Corporation of India with respect to transfer of electricity from surplus power producing States to power deficit States and the provisions laid down in this regard;

(b) whether it is a fact that power deficit States have not been getting electricity from surplus power producing States; and

(c) if so, the reasons therefor along with action 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) : Power Grid Corporation of India Ltd. (PGCIL) as the Central Transmission Utility has responsibility to ensure development of an efficient, co-ordinated and economical system of inter-State transmission lines for smooth flow of electricity from generating stations to the load centers.

(b)& (c): A State may be in a surplus / deficit situation depending on the period of the year and power system related factors in the inter-State and intra-State grid. Any shortage / surplus that may arise are met through procurement / sale of power in the Electricity market.

As far as power transfer through Inter-State Transmission System (ISTS) is concerned, presently there is no constraint in transfer of long term allocated power from generating stations in various States to different beneficiary States. However there are some constraint in transfer of additional power which is yet to be granted long term access to southern states from national grid and also between western grid to Northern Grid. Power transfer under Medium Term / Short Term Open Access takes place based on the available transmission margin of the existing system. For transfer of such power, constraint may be experienced depending on the load generation available at that time.

A number of inter-regional links have been planned which inter-connect the five regional grids to form the National Grid. Presently, the total transmission capacity of such inter-regional links is 45,850 MW (till March, 2015) which would increase to 68,050 MW by the end of 12th Plan i.e. 2016-17.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6073
ANSWERED ON **30.04.2015**

NATIONAL POWER TRAINING INSTITUTE

6073. SHRI SHIVKUMAR UDASI:

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

(a) whether the Government has assessed the requirements of skilled and non-skilled employees in power sector;

(b) if so, the details thereof along with action taken thereon including enhancing the capacity of the National Power Training Institute (NPTI);

(c) whether the Government has directed the power companies to provide training to their employees and also assist employees of the private sector in getting training; 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) & (b) : Based on the norms used in the report of Working Group on Power for 12th Five Year Plan, requirements of skilled and non-skilled employees in power sector have been assessed, for capacity addition envisaged for 12th Plan, as under:

Category		Manpower requirement
1.	Engineers	67,500
2.	Operators	63,300
3.	Technicians/WORKFORCE	
	(a) Skilled workers	67,700
	(b) Semi skilled workers	74,400
	(c) Unskilled workers	83,500
TOTAL		**3,56,400**

The Government has decided to set up two new institutes of National Power Training Institute (NPTI), one each in Kerala and Madhya Pradesh, in order to enhance the capacity of National Power Training Institute (NPTI).

(c) & (d) : As per Central Electricity Authority (Measures relating to Safety & Electric Supply) Regulation, 2010, all the employees of power sector companies involved in Operation & Maintenance have to undergo a specified period of compulsory training.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6080
ANSWERED ON 30.04.2015

POWER DEVELOPMENT AND REFORM PROGRAMME

†6080. PROF. RAVINDRA VISHWANATH GAIKWAD:

Will the Minister of POWER
be pleased to state:

(a) whether Power Development and Reform Programme is being carried out in the country and if so, the details and status thereof, State-wise, project-wise; and

(b) the amount of central assistance extended under the said programme during each of the last three years, State-wise?

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, under the "Integrated Power Development Scheme" (IPDS), the power development and reforms programme is being carried out in country. The erstwhile Re-Structured Accelerated Power Development & Reforms Programme (R-APDRP) has been subsumed in IPDS. The state wise details of projects sanctioned under the scheme are placed at **Annex.**

(b) : The details of central assistance extended to the states under the R-APDRP/IPDS during each of the last three years is placed below:

(Figures in Rs. crore)

FY 2012-13		FY 2013-14		FY 2014-15	
Project Sanctioned	Funds Released	Project Sanctioned	Funds Released	Project Sanctioned	Funds Released
2306.87	1217.45	4331.02	639.99	4423.11	628.47

(Note: the figures of 2014-15 are inclusive of projects sanctioned & funds released under IPDS/R-APDRP.)

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ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 6080 ANSWERED IN THE LOK SABHA ON 30.04.2015.

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Sanction and disbursement under R-APDRP component of IPDS during last three years

State/UTs	Projects Sanctioned (Rs. crore)			Funds disbursement (Rs. crore)		
	2012-13	2013-14	2014-15	2012-13	2013-14	2014-15
Andhra Pradesh	95.20	56.77	100.93	11.90	56.61	8.49
Arunachal	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	75.79	0.00	34.60
Bihar	530.05	0.00	0.00	82.53	97.36	0.00
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00
Chattisgarh	0.00	0.00	0.00	118.85	34.54	0.00
Goa	0.00	0.00	0.00	0.00	0.00	0.00
Gujarat	-39.77	43.17	127.02	55.99	28.79	15.25
Haryana	0.00	793.90	0.00	0.00	0.00	27.14
Himachal	0.00	0.00	0.00	29.59	0.00	21.28
J&K	0.00	0.00	0.00	0.00	0.00	0.00
Jharkhand	0.00	1251.68	0.00	0.00	27.78	0.00
Karnataka	-162.40	0.00	7.56	0.00	95.96	7.99
Kerala	206.13	0.00	0.00	30.92	0.00	0.00
Madhya Pradesh	44.91	0.00	0.00	38.51	46.20	0.00
Maharashtra	154.54	0.00	-341.38	125.01	0.00	0.00
Manipur	398.87	0.00	0.00	119.66	0.00	0.00
Meghalaya	0.00	159.73	0.00	0.00	0.00	47.92
Mizoram	0.00	240.41	0.00	0.00	57.50	14.62
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00
Odisha		395.86	0.00	0.00	0.00	79.21
Puducherry	98.67	0.00	0.00	0.00	14.10	2.78
Punjab	0.00	122.97	0.00	10.26	13.50	4.29
Rajasthan	-4.40	0.00	110.14	36.07	0.00	0.00
Sikkim	0.00	0.00	-14.67	0.00	0.00	2.58
Tamil Nadu	-1088.68	90.81	228.40	0.00	0.00	0.00
Telangana	33.74	26.78	0.00	0.00	83.04	0.00
Tripura	16.83	0.00	0.00	6.71	0.00	32.96
Uttar Pradesh	1824.44	1015.63	930.36	302.00	84.61	195.84
Uttrakhand	191.46	0.00	6.42	117.79	0.00	61.56
West Bengal	7.28	133.31	0.00	55.87	0.00	21.96
Total	**2306.87**	**4331.02**	**1154.78**	**1217.45**	**639.99**	**578.47**

(Note: Project cost showing with (-) sign have been cancelled by Steering committee.)

Sanction and disbursement under IPDS

Sr. No.	State	Project Cost sanctioned (Rs. crore)	Funds released (Rs. crore)
1	Andhra Pradesh	432.65	3.00
2	Bihar	245.54	2.13
3	Gujarat	374.78	5.00
4	Madhya Pradesh	72.94	1.20
5	Uttar Pradesh	1067.73	24.87
6	West Bengal	1074.68	13.80
Total		**3268.32**	**50.00**

{Note: IPDS scheme was approved by Government of India on 20.11.2014 (2014-15)}

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6102
ANSWERED ON 30.04.2015

DETAILS OF THDC OFFICIALS

†6102. SHRIMATI MALA RAJYA LAXMI SHAH:

Will the Minister of POWER
be pleased to state:

(a) the number of officials working in Tehri Hydro Development Corporation (THDC) against the sanctioned strength in their offices located at various places;

(b) whether any irregularity has been brought to the notice of the Government in the promotion of the employees of THDC; and

(c) if so, the details thereof along with the action taken thereon including the norms laid down 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) : There are 2010 officials working in THDCIL against the sanctioned strength of 1471 in their offices located at various places.

(b) & (c) : No irregularity is reported in the promotion of employees in THDCIL.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6104
ANSWERED ON 30.04.2015

POWER PLANT IN TAMIL NADU

6104. SHRI K. PARASURAMAN:

Will the Minister of POWER
be pleased to state:

(a) the details of the Central Sector Power Stations located in the State of Tamil Nadu;

(b) the details of the fault/failure that occurred in these Central Power Stations during the last three years along with power generation affected during this fault/failure period; and

(c) the corrective measures taken 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) : The list of central sector power stations located in the State of Tamil Nadu is at Annex-I.

(b) & (c) : The details of fault/failure, generation affected and corrective measures in central sector power stations located in Tamil Nadu during last three years is at Annex-II.

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO.6104 ANSWERED IN THE LOK SABHA ON 30.04.2015.

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List of Central Sector Power Stations in Tamil Nadu

State	Name of the project (Central Sector)	Installed Capacity (MW)
Tamil Nadu	**COAL/LIGNITE**	
	Neyveli Thermal Power Station I	300
	Neyveli Thermal Power Station I	300
	Neyveli Thermal Power Station II	1470
	Neyveli Thermal Power Station Stage-II	500
	Neyveli Thermal Power Station(Ext)	210
	Neyveli Thermal Power Station(Fst)	210
	Vallur Thermal Power Station	1500
	Tuticorin	500
	NUCLEAR	
	Madras A P S	440
	Kundankulam	1000
	TOTAL	**6430**

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ANNEX REFERRED TO IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO.6104 ANSWERED IN THE LOK SABHA ON 30.04.2015.

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Details of fault/failure, generation affected and corrective measures in Central Sector Power Stations located in Tamil Nadu during last three years

Name of Plant	Details of Fault/failure along with power Generation affected	Corrective Measures
2012-13		
Neyveli TPS– I Expansion	Even though there was no major failure, there was loss of generation of 15 Million Units (MU) due to turbine auxiliary steam leak and faulty drum level controllers.	The turbine auxiliaries' system and drum level controllers were tuned and rectified.
Neyveli TPS –II	There was a total loss of 367 MU due to water wall tube punctures in boiler and certain problems in the turbine and its auxiliaries.	The worn out pressure parts were replaced and the equipments were rectified to prevent recurrence.
NTECL, VALLUR THERMAL POWER PROJECT	Boiler tube leakage, a loss of 134 MU.	Unit-1 boiler acid cleaning done; Based on tube thickness survey & corrosion mapping defective water wall tubes replaced.
	Condenser tube leakage 57 MU.	Condenser tubes are thoroughly checked during shut down opportunities and after 2012-13, no instances of outages due to condenser tube failures occurred.
	CHP problem 42 MU.	(a) Reclaimer#2 belt drive assembly & coupling damaged. Rectified & restored, (b) Bucket wheel failure of Reclaimer#2, equipment repaired and restored, (c) Single Pipe conveyor of length 4.3km(no standby) failure. (i) Belt got entangled and twisted at head end drive. Rectified and restored, (ii) failure of variable frequency drives control system. Faulty electronic cards replaced and restored.
2013-14		
Neyveli TPS – I Expansion:	There were boiler tube punctures on 3 occasions apart from faulty electrical relays and DCS cards, thereby there was a loss of generation of 55.83 MU.	The worn out pressure parts, faulty electrical relays and DCS cards were replaced.
Neyveli TPS –II	There was a total loss of 304 MU due to water wall tube punctures in boiler and stator earth fault in the generator of unit 7.	The worn out pressure parts were replaced and the stator earth fault was rectified.
NTECL, VALLUR THERMAL POWER PROJECT	Boiler tube leakage, a loss of 707 MU.	Unit-1 boiler acid cleaning done; Based on tube thickness survey & corrosion mapping defective water wall tubes replaced.
	Electrical system- GIS gas leakage in switchyard, a loss of 290 MU.	Design deficiencies in PRD got rectified. After that no failures occurred.

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	CHP problem, a loss of 111 MU.	(a) Reclaimer#2 belt drive assembly & coupling damaged. Rectified & restored, (b) Bucket wheel failure of Reclaimer#2, equipment repaired and restored, (c) Single Pipe conveyor of length 4.3km(no standby) failure. (i) Belt got entangled and twisted at head end drive. Rectified and restored, (ii) failure of variable frequency drives control system. Faulty electronic cards replaced and restored.
2014-15		
Neyveli TPS-I	Unit 7 (100 MW) was tripped on 20.05.2014 at 10.09 hrs following dislodgement of the shell of HP Heater causing extensive damage to the TG hall roof & to the equipments in the vicinity of its path. Generation to the tune of 184 MU was lost due to this fault/failure.	Rectification of TG hall roof damage and replacement/ rectification of the damaged equipments were carried out safely and Unit 7 was successfully synchronized on 13.08.2014 at 07.20 hrs.
Neyveli TPS – I Expansion	There was a loss of generation to the tune of 62.90 MU due to boiler tube puncture on 2 occasions, faulty electrical relay and due to fault in turbine vacuum operating system.	The worn out pressure parts and faulty electrical relays were replaced & faults in the turbine vacuum operating system were attended.
Neyveli TPS –II	There was a total loss of 424 MU due to water wall tube punctures in boiler and fault in the boiler auxiliary equipments.	The worn out pressure parts were replaced and the boiler auxiliary equipments were rectified to prevent recurrence.
NTECL, VALLUR THERMAL POWER PROJECT	Boiler tube leakage, a loss of 1108 MU.	Unit-1 boiler acid cleaning done; Based on tube thickness survey & corrosion mapping defective water wall tubes replaced.
	CHP problem, a loss of 186 MU.	(a) Reclaimer#2 belt drive assembly & coupling damaged. Rectified & restored, (b) Bucket wheel failure of Reclaimer#2, equipment repaired and restored, (c) Single Pipe conveyor of length 4.3km(no standby) failure. (i) Belt got entangled and twisted at head end drive. Rectified and restored.(ii) Failure of variable frequency drives control system. Faulty electronic cards replaced and restored.
Madras Atomic Power Station	Generator Earth fault, a loss of generation 90.9 MU.	Unit synchronized after removing/ rectifying generator earth fault.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6118
ANSWERED ON **30.04.2015**

HYDRO ELECTRIC POWER PROJECTS

6118. SHRI ANTO ANTONY:
SHRI CHANDRA PRAKASH JOSHI:

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

(a) whether study to assess the hydro electric potential has been done by Central Electricity Authority in the recent past;

(b) if so, the details thereof;

(c) if not, the reasons therefor along with the time by which such study is proposed to be conducted;

(d) whether the Government proposes to phase out hydro electric power plants; and

(e) if so, the details thereof along with reasons therefor including measures taken to ensure that power generation do not fall as a result of the same?

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 re-assessment studies of hydro-electric potential was carried out by the Central Electricity Authority during 1978-87. As per the studies hydro power potential in terms of Installed Capacity of the country is estimated at 148701 MW, out of which 145320 MW of the potential consists of hydro electric schemes having Installed Capacity above 25 MW.

(d) : No, Madam.

(e) : Does not arise.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6140
ANSWERED ON **30.04.2015**

COMPETITION AMONGST DISCOMS

†6140. SHRI PRATAPRAO JADHAV:
SHRI RAM TAHAL CHOUDHARY:

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

(a) whether it is a fact that as per the existing arrangement the choice of power distribution companies is not ordinarily available to the consumers for the supply of electricity;

(b) if so, the reaction of the Government thereto; and

(c) the steps taken by the Government to provide choice to the consumers and to promote competitiveness among the service providers to discourage monopoly?

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) : As per provisions contained in Section 14 of the Electricity Act, 2003, Appropriate Commission may grant a licence to two or more persons for distribution of electricity through their own distribution system within the same area.

The condition of having own distribution network is not cost effective and therefore, the existing arrangement the choice of power distribution companies is not ordinarily available to the consumers for the supply of electricity.

In the Electricity (Amendment) Bill, 2014, which has been introduced by the Government in the Lok Sabha on 19th December, 2014, there is a proposal for segregating the carriage (distribution network) from the content (electricity supply business) in the power sector. Distribution network will be commonly used by multiple supply licencees bringing competition and efficiency in the distribution sector by giving choice to the consumers.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6148
ANSWERED ON **30.04.2015**

VIOLATION OF NORMS BY POWER COMPANIES

†6148. SHRI CHANDRAKANT KHAIRE:
SHRI RAM TAHAL CHOUDHARY:

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

(a) the provisions with regard to registering of criminal complaint against companies violating norms laid down for the distribution of electricity;

(b) whether it has been brought to the notice of the Government that the power consumption reported from the areas where power is being distributed by private companies is more than actual power consumption; and

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

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : Sections 142 and 146 of the Electricity Act, 2003 provide for punishment for noncompliance of directions by Appropriate Commission.

Under Section 142, if any complaint filed by any person or if the commission is satisfied that any person has contravened any of the provisions of the Electricity Act, 2003 or Rules or Regulations made thereunder or any direction issued by the commission, there is provision for imposing monetary penalty of Rupees One Lakh for each contravention and for continuous failure with an additional penalty which may be extended to six thousand rupees for each day till the failure continues.

Under Section 146 of Electricity Act, 2003, there is a provision for punishment which includes imprisonment for a term which may extend to three months or with fine, which may extend to one lakh rupees, or with both in respect of each offence and in the case of a continuing failure, with an additional fine which may extend to five thousand rupees for every day against anybody including any company, who fails to comply with any order or direction given under this Act, within such time as may be specified in the said order or direction or contravenes or attempts or abets the contravention of any of the provisions of this Act or any rules or regulations made thereunder.

The provisions contained under Section 142 & 146 are in **Annex.**

(b) & (c) : There is no such specific information available with Government of India.

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ANNEX

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 6148 ANSWERED IN THE LOK SABHA ON 30.04.2015.

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Section 142.(Punishment for non-compliance of direction by Appropriate commission)

In case any complaint is filed before the Appropriate Commission by any person or if that Commission is satisfied that any person has contravened any of the provisions of this Act or rules or regulations made thereunder, or any direction issued by the Commission, the Appropriate Commission may after giving such person an opportunity of being heard in the matter, by order in writing, direct that, without prejudice to any other penalty to which he may be liable under this Act, such person shall pay, by way of penalty, which shall not exceed one lakh rupees for each contravention and in case of a continuing failure with an additional penalty which may extend to six thousand rupees for every day during which the failure continues after contravention of the first such direction.

Section 146. (Punishment for non-compliance of orders or directions):

Whoever, fails to comply with any order or direction given under this Act, within such time as may be specified in the said order or direction or contravenes or attempts or abets the contravention of any of the provisions of this Act or any rules or regulations made thereunder, shall be punishable with imprisonment for a term which may extend to three months or with fine, which may extend to one lakh rupees, or with both in respect of each offence and in the case of a continuing failure, with an additional fine which may extend to five thousand rupees for every day during which the failure continues after conviction of the first such offence:

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6165
ANSWERED ON 30.04.2015

POWER TARIFFS

6165. SHRI ADHIR RANJAN CHOWDHURY:

Will the Minister of POWER
be pleased to state:

(a) whether the Government has taken cognizance of increase in power tariffs by several discoms in the country and impact of such hike on the poor people particularly on tribals in the country; and

(b) if so, the reaction of the Government thereto along with the steps taken to control the increase in power tariffs?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : The Central Government has no specific information regarding electricity tariff proposed to be increased by several Discoms in the country, as tariff of distribution companies is determined by the State Electricity Regulatory Commissions (SERCs)/ Joint Electricity Regulatory Commissions (JERCs) based on the principles enunciated under the Electricity Act, 2003 and policies framed thereunder. The State Governments can give subsidy to the extent they consider appropriate as per the provisions of Section 65 of the Electricity Act, 2003 as well as Clause 8.3 of the Tariff Policy. There is no provision for direct regulation of the electricity tariff by the Central Government.

(b): 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, with a view to reducing the Aggregate Technical and Commercial (AT&C) losses. These measures, along with the Government's emphasis on discovery of tariff through competitive bidding, contribute towards lowering of tariff rates.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6185
ANSWERED ON 30.04.2015

AGREEMENT BY NTPC WITH STATES ON PRICE TAG

6185. SHRI ASADUDDIN OWAISI:
SHRI ASHOK MAHADEORAO NETE:

Will the Minister of POWER
be pleased to state:

(a) the number of States to whom power is being supplied by NTPC along with its per unit price;

(b) whether States located near NTPC plants get costlier power supply as compared to States located away from them;

(c) if so, the transmission cost incurred by NTPC where plants are not located; and

(d) the steps taken or being taken by the Government to ensure that price is uniform for all the States?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : NTPC is supplying power to all states and UTs except the State of Manipur, Tripura, Lakshadweep and Andaman & Nicobar islands from its power stations. The price of power of NTPC stations is decided by CERC station-wise and for a particular station, it is same for each State to whom power is allocated from that generating station.

(b) & (c) : NTPC supplies power to states on station ex-bus bar basis and thus does not incur any transmission cost. The price of power (ex-bus) to all states from a particular station is same irrespective of the distance/location of state from that particular station.

(d) : Price cannot be equal to all the State as all States are getting power from different NTPC Stations and Station-wise tariff is decided by CERC.

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