

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.375
TO BE ANSWERED ON 18.12.2014

INTEGRATED POWER DEVELOPMENT SCHEME

*375. SHRI P.R. SUNDARAM:
SHRI ASHOK SHANKARRAO CHAVAN:

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

- (a) whether the Government has approved the Integrated Power Development Scheme to strengthen the transmission and distribution of power;
- (b) if so, the salient features of the Scheme;
- (c) whether the Government has also approved a scheme for rural areas to separate agricultural supply from non-farm supply and if so, the details thereof; and
- (d) the time by which the said schemes are likely to be implemented and funds earmarked for the purpose?

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. 375 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014 REGARDING INTEGRATED POWER DEVELOPMENT SCHEME.

(a) : Yes, Madam.

(b) : Integrated Power Development Scheme (IPDS) envisages strengthening of sub-transmission and distribution network including metering at all levels in the urban areas. The earlier scheme of Restructured Accelerated Power Development and Reforms Programme (R-APDRP) has also been subsumed in the new scheme of IPDS.

The major components of the scheme are:

- (i) Strengthening of sub-transmission and distribution network .
- (ii) Metering at all levels.
- (iii) Ongoing works of R-APDRP to be completed.
- (iv) Provisioning of Solar Panels.

All Discoms are eligible for financial assistance and Power Finance Corporation (PFC) is the Nodal Agency for operationalization of this Scheme. The total outlay for the Scheme is Rs.32,612 crore including gross budgetary support of Rs.25,354 crore from the Government of India during the entire implementation period. In addition to this, the unspent amount of R-APDRP has been carried forward to this scheme.

(c) & (d) : Government has also approved the Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) which envisages feeder separation in the rural areas for agricultural and non-agricultural supply and strengthening of sub-transmission and distribution systems. The total outlay for the Scheme is Rs.43,033 crore including gross budgetary support of Rs.33,453 crore from the Government of India during the entire implementation period.

The salient features of DDUGJY are as follows:

- I. The existing Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) has been subsumed in the new scheme and the unspent amount of RGGVY will be carried forward to DDUGJY.
- II. All Discoms are eligible for financial assistance under the scheme.
- III. Rural Electrification Corporation Limited (REC) will be the nodal agency for implementation of the scheme.

Projects under the above two schemes will be completed within a period of 24 months from the date of issue of Letter of Award (LoA) by the distribution utility.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.378
TO BE ANSWERED ON 18.12.2014

ESTABLISHMENT OF HYDEL POWER PROJECTS

†*378. SHRI MUKESH RAJPUT

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

- (a) whether the Central Electricity Authority (CEA)/Government has assessed/studied the potentialities/ possibilities of establishing hydel power projects in Ganga Basin, if so, the details thereof;
- (b) the time by which feasibility assessment/study for the River Basin is likely to be completed; and
- (c) the concrete measures taken/being taken/to be taken by the Government to promote hydel power?

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.378 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014 REGARDING ESTABLISHMENT OF HYDEL POWER PROJECTS.

(a) & (b) : Yes, Madam. The re-assessment studies of hydro-electric potential of the country was completed by the Central Electricity Authority (CEA) in 1978-87. The identified hydro-electric potential of Ganga Basin is estimated at 20711 MW, out of which 20252 MW is of projects above 25 MW.

(c) : Apart from various policy initiatives, as enshrined in the National Electricity Policy, National Hydro Policy, National Rehabilitation and Resettlement Policy and National Tariff Policy, the Government of India and CEA regularly monitor the implementation of hydro projects including site visits, interaction with developers and expediting various clearances, etc. An Independent Power Project Monitoring Panel (PPMP) has also been set up to regularly follow up the progress of hydro projects.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4145
TO BE ANSWERED ON 18.12.2014

USE OF CHINESE EQUIPMENTS IN POWER SECTOR

4145. SHRI SANJAY KAKA PATIL:

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

- (a) whether the Government is aware of increasing dependency of our country on Chinese equipments in power sector due to their low cost as compared to other countries;
- (b) if so, the details thereof; and
- (c) the steps taken/to be taken by the Government to make the country self-sufficient by indigenously manufacturing requisite power equipments at competent price?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : Out of total thermal generation capacity of 48,540 MW commissioned in 11th Plan, main plant equipment for 18,187 MW was imported from Chinese manufacturers. During 12th Plan, main plant equipment for 18,770 MW out of total thermal capacity added of 46,563 MW was supplied by Chinese manufacturers. Out of total thermal capacity of 87,837 MW under construction, main plant equipment for about 30,275 MW are being supplied by Chinese manufacturers. Therefore, main plant import, supplied by Chinese manufacturers, has stabilized in the last few years and there is a downward trend in main plant import for under construction thermal capacity.

(c): The following steps have been taken by the Government to make the country self-sufficient by indigenously manufacturing requisite power equipments at competent price:

- (i) With a view to encourage domestic suppliers and provide orders to them, bulk orders for 11 nos. 660 MW supercritical units for NTPC and DVC and 9 nos. 800 MW supercritical units for NTPC were approved by the Govt. and have been undertaken by NTPC and DVC. These bulk orders are with mandatory requirement of indigenization of manufacturing of supercritical units by the successful bidders as per a pre-agreed Phased Manufacturing Programme (PMP).
- (ii) An advisory has been issued by Central Electricity Authority to all Central/State sector power generating companies that, with a view to encourage indigenous manufacturing of thermal power plants based on supercritical technology, they may incorporate the condition of setting up of phased indigenous manufacturing facilities, in the bids to be invited for boilers and turbine-generators of supercritical projects. The Advisory is valid upto October, 2015.
- (iii) To promote use of indigenous power equipment in the bidding of Ultra Mega Power Projects (UMPPs), Government of India has made a mandatory condition for bidders to procure the boilers, turbines, and generators from manufacturing facilities situated in India and owned and operated in India by an Indian company, a foreign company or a joint venture between an Indian and foreign company.
- (iv) BHEL have made technology arrangements with M/s. Alstom and Siemens for manufacturing of Supercritical Boiler and Turbine generator respectively and also taken up augmentation of manufacturing capacity.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4164
TO BE ANSWERED ON 18.12.2014

CRITERIA FOR ALLOCATION OF POWER TO STATES

4164. DR. MANOJ RAJORIA:
SHRI RAHUL KASWAN:

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

- (a) the criteria fixed for allocation of power from Central Sector Power Undertakings/Units to States;
- (b) whether the allocation of power to various States/UTs in the country including Rajasthan has been much less than what has been demanded by them during each of the last three years and the current year;
- (c) if so, the State/UT-wise details thereof along with the reasons therefor; and
- (d) the remedial steps 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) : The details of the norms for allocation of power to the States/UTs are at **Annex-I**. Accordingly, power from Central Generating Stations (CGS) is allocated to the beneficiary States / Union Territories (UTs) in two parts. 85% power is allocated as firm allocation. The allocation of remaining 15% unallocated power of CGSs, kept at the disposal of Central Government, is revised from time to time, keeping in view factors like emergent situations arising due to any natural calamity, relative power supply position etc. of the States.

(b) & (c) : The allocation of power from CGSs to various States / UTs including Rajasthan in the country is done as per the guidelines and the entire capacity stands fully allocated at any point of time. It is generally less than the demand raised by the States / UTs. The State/UT-wise details of allocation from CGSs and peak demand in the country during last three years and the current year (April to November,2014) are enclosed at **Annex-II**.

(d): Electricity being a concurrent subject, supply and distribution of electricity to various consumers including Industry and IT sector in a State / Union Territory is within the purview of the respective State Government / State Power Utility. The Central Government only supplements the efforts of the State Governments in providing electricity supply to all consumers by establishing power plants and transmission systems in Central Sector through Central Power Sector Undertakings (CPSUs). The remedial steps taken by the Government, inter alia, are:

- (i) Capacity addition of 1,18,537 MW (including 88,537 MW conventional and 30,000 MW renewable) by 2016-17. As against this, about 48,390 MW from conventional sources has been achieved till 30.11.2014 and about 8297 MW from renewable till 31.10.2014.
- (ii) Construction of 1,07,440 ckm transmission lines and setting up of 2,82,740 MVA transformation capacity by 2016-17. As against this, 45,570 ckm of transmission lines and 1,56,354 MVA of transformation capacity have been achieved till October, 2014.
- (iii) Government of India has taken initiative to prepare Action Plans for providing 24X7 Power For All (PFA) in partnership with the States.
- (iv) Two new schemes have been approved by the Government of India, namely, Deendayal Upadhyaya Gram Jyoti Yojana and Integrated Power Development Scheme for strengthening of sub-transmission and distribution networks and for segregation of agricultural feeders to give adequate and reliable supply and reduce line losses.
- (v) Renovation & Modernization (R&M) and Life Extension / Uprating of a total of 29,367MW old thermal power plants is planned by the concerned State and Central Power Utilities for improving the Plant Load Factor of existing power stations.
- (vi) The gap in indigenous coal availability is being met through enhanced coal production and coal imports for increased generation by thermal plants.
- (vii) Promotion of energy conservation, energy efficiency and demand side management measures is being undertaken.
- (viii) In order to support financial viability of State Distribution Utilities (Discoms), the Central Government had notified a Financial Restructuring Plan (FRP).
- (ix) Expeditious resolution of issues relating to environmental and forest clearances to facilitate early completion of generation and transmission projects.

**ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 4164
TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.**

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

The firm allocation includes allocation of 12% free power to the affected States and 1% for local area development in case of Hydro Power Stations and 10% (not free) power to the home State in case of Thermal and Nuclear Power Stations.

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

The aforementioned guidelines for allocation of power from Central Generating Stations are applicable to the generating stations, for which PPAs have been signed upto 5th January, 2011 and for the extension of the existing projects. After 5th January, 2011, power is to be procured by the Distribution Companies / Utilities through tariff based competitive bidding. In 13 new projects of NTPC, Central Government has, in January, 2011, approved allocation of 50% of power to 'Home' State, 15% unallocated power at the disposal of Government of India and 35% to other constituents (except 'Home' State) of that region on the basis of extant guidelines on allocation of power giving equal weightage to central plan assistance and energy consumption by each State of the Region for preceding 5 years. Similar dispensation has also been provided by the Government in January, 2011 in respect of new projects of Nuclear Power Corporation.

ANNEX REFERRED TO IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO.4164 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

**Peak Demand and Total Allocation (During Peak hours) from Central Sector Generating Stations
w.e.f. 2011-12 till 2014-15 (upto Nov., 2014)**

States/UTs	Peak Demand	Allocation	Peak Demand	Allocation	Peak Demand	Allocation	Peak Demand	Allocation
	2011-12 (MW)	As on 31.3.2012 (MW)	2012-13 (MW)	As on 31.3.2013 (MW)	2013-14 (MW)	As on 31.3.2014 (MW)	2014-15* (MW)	As on 30.11.2014 (MW)
Chandigarh	263	204	340	211	345	163	367	176
Delhi	5,031	3,897	5,942	4,232	6,035	4,403	6,006	3,440
Haryana	6,533	1,945	7,432	2,224	8,114	2,433	9,152	2,509
Himachal Pradesh	1,397	1,156	2,116	1,219	1,561	1,143	1,403	1,305
Jammu & Kashmir	2,385	1,603	2,422	1,700	2,500	1,877	2,521	2,086
Punjab	10,471	2,045	11,520	2,113	10,089	2,210	11,534	2,296
Rajasthan	8,188	2,374	8,940	2,831	10,047	2,802	10,188	2,968
Uttar Pradesh	12,038	5,520	13,940	5,779	13,089	5,850	15,670	6,319
Uttarakhand	1,612	796	1,759	844	1,826	875	1,883	914
Chhattisgarh	3,239	805	3,271	1,127	3,365	1,189	3,480	1,209
Gujarat	10,951	2,768	11,999	3,368	12,201	3,608	13,603	3,608
Madhya Pradesh	9,151	2,553	10,077	4,527	9,716	4,742	9,477	5,214
Maharashtra	21,069	3,853	17,934	6,781	19,276	7,027	20,147	6,990
Daman & Diu	301	165	311	319	322	322	297	320
Dadar Nagar Haveli	615	566	629	906	661	930	679	895
Goa	527	444	524	491	529	502	501	522
Andhra Pradesh	14,054	3,306	14,582	3,675	14,072	3,697	7,144	1,905
Telangana*							7,884	2,092
Karnataka	10,545	1,672	10,124	1,810	9,940	1,895	10,001	1,896
Kerala	3,516	1,626	3,578	3,766	3,671	1,639	3,760	1,716
Tamil Nadu	12,813	3,282	12,736	1,633	13,522	4,097	13,663	4,096
Puducherry	335	394	348	396	351	387	389	386
Bihar	2,031	1,742	2,295	1,802	2,465	1,934	2,992	2,789
DVC	2,318	168	2,573	5,990	2,745	5,998	2,653	6,018
Jharkhand	1,030	526	1,263	562	1,111	541	1,082	577
Odisha	3,589	1,544	3,968	1,705	3,727	1,697	3,814	1,735
West Bengal	6,592	1,225	7,322	1,403	7,325	1,548	7,544	1,548
Sikkim	100	149	95	150	90	149	82	157
Arunachal Pradesh	121	134	116	134	125	133	139	133
Assam	1,112	721	1,197	746	1,329	731	1,435	819
Manipur	116	123	122	123	134	123	141	123
Meghalaya	319	212	334	212	343	206	350	163
Mizoram	82	74	75	74	84	74	90	74
Nagaland	111	80	110	80	109	79	140	79
Tripura	215	105	229	105	254	105	310	105

* Provisional for the period April to November, 2014.

NOTE: Cumulative figures of Andhra Pradesh and Telangana are w.e.f. June, 2014 subsequent to bifurcation of undivided Andhra Pradesh into Andhra Pradesh and Telangana w.e.f. June, 2014.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4166
TO BE ANSWERED ON 18.12.2014

NAPHTHA BASED POWER PROJECTS

4166. SHRI P. KUMAR:

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

- (a) the number of power projects sanctioned by the Government with naphtha as feed stock during the last three years and the current year, State-wise and the total power generation in MW expected from these power projects;
- (b) the average power generation cost per unit from the said projects;
- (c) whether the Government proposes to import naphtha for this purpose; 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) : As per the Electricity Act, 2003, no sanction/clearance is required for setting up of Thermal Power Projects including Naphtha as feed stock.

(b) to (d) : In view of (a) above, does not arise.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4177
TO BE ANSWERED ON 18.12.2014

BANK DEBTS IN POWER SECTOR

4177. SHRI C.S. PUTTA RAJU:

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

- (a) whether the power sector has incurred huge bank debts during the last three years and the current year;
- (b) if so, the details thereof along with the reasons therefor;
- (c) whether the Government has failed in procuring investments from corporate sector to strengthen power sector financially;
- (d) if so, the reasons therefor;
- (e) if not, the details of the investments made by various companies in this sector during the last three years and the current year; and
- (f) the concrete steps taken by Government to reduce the bank debt burden and achieve the planned growth targets?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : As per the PFC report on Performance of State Power Utilities for the years 2010-11 to 2012-13, the outstanding loans of State Power Utilities from banks/financial institutions, bonds and debentures and other loans in the past years are shown:

Year	Outstanding debt (Rs. crore)
2010-11	333,388
2011-12	389,824
2012-13	459,145

(c) & (d): No, Madam.

(e) : Total investment in the power sector from 2010-11 is as shown:

Investment in the power sector, 2010-11 to 2013-14 (Rs. crore)

Sector	2010-11	2011-12	2012-13 (Prov.)	2013-14 (Prov.)
Centre	36833.74	45610.82	50776.29	51310.34
State	59869.54	60515.91	53556.87	57524.68
Private	79940.20	92316.30	75128.26	59339.25
Total	176,643.48	198,443.03	179,461.42	168,174.27

(f) : Steps taken by Government to reduce the debt burden include:

- A scheme of financing restructuring of distribution companies, notified in October 2012 to enable restoration of their financial health, through measures taken by them and the State Governments to achieve turnaround by restructuring debt with central support through a transition finance mechanism.
- The National Electricity Fund (interest subsidy) scheme to provide interest subsidy linked with reform measures on loan from Banks/Financial Institutions, to State power utilities and distribution companies (public and private), for non-RGGVY and non-R-APDRP distribution projects with the aim to promote capital investment in distribution sector.
- Relief to Gas based power projects depends upon increased availability of Gas. Government has explored various options to provide relief to stranded gas based plants. However, no final decision has been taken.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4178
TO BE ANSWERED ON 18.12.2014

SUPPLY OF POWER FOR INDUSTRY AND IT SECTOR

4178. SHRIMATI KOTHAPALLI GEETHA:

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

- (a) whether some States including Telangana have sought 1000 MW exclusively for Industry and IT sector; and
- (b) if so, the details thereof and the action taken towards demand of each State during 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) & (b) : As per the information available in Central Electricity Authority, none of the States including Telangana have sought 1000 MW exclusively for Industry and IT sector in last three years.

Electricity being a concurrent subject, supply and distribution of electricity to various consumers including Industry and IT sector in a State / Union Territory is within the purview of the respective State Government / State Power Utility. The Central Government only supplements the efforts of the State Governments in providing electricity supply to all consumers by establishing power plants and transmission systems in Central Sector through Central Power Sector Undertakings (CPSUs). The power allocation from these stations is not done sector-wise but as a whole to the State or Union Territory.

The distribution of power to Industries and IT sector is done by the State Government/State Power Utilities.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4190
TO BE ANSWERED ON 18.12.2014

INCOMPLETE THERMAL POWER PROJECTS

†4190. SHRI RAJVEER SINGH (RAJU BAAIYA):

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

- (a) the details of the projects in each sector of power lying incomplete as on date, State/UT-wise along with the reasons for the same;
- (b) whether the Government has proposed to complete the said projects in the country including Uttar Pradesh; and
- (c) if so, the details thereof and the time limit fixed for completing each such project?

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) : Details of the under-construction thermal and hydro power projects in each sector as on date, State/UT-wise including Uttar Pradesh, along with reasons for delay and commissioning schedule are given in **Annex-I** and **Annex-II** respectively.

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 4190 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

Details of Under Construction Thermal Power Projects in the country

Project Name	State	Unit No	Cap. (MW)	Original Commissioning Schedule	Latest Commissioning Schedule	Reasons for Delay
CENTRAL SECTOR						
Bongaigaon TPP	Assam	U-1	250	Jan-11	Jun-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.
		U-2	250	May-11	16-17	
		U-3	250	Sep-11	16-17	
Barh STPP- I	Bihar	U-1	660	Oct-13	17-18	Delay due to dispute of NTPC with Power machine & Technopromexport, Russia. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constraint . Slow progress of works at site by M/s TPE and M/s Powermachines, Russia.
		U-2	660	Apr-14	17-18	
		U-3	660	Oct-14	18-19	
Barh STPP-II	Bihar	U-5	660	Oct-13	Mar-15	Delay in Supplies by BHEL. Delay in readiness of CHP and Completion of T-23 welding joints.
Muzaffarpur TPS Exp	Bihar	U-3	195	Oct-12	Mar-15	Delay in award of main plant civil works. Delay in completion of civil works. Delay in land acquisition & availability of Right of Approach.(ROA) for Raw Water Line. Delay in readiness of CHP , AHP and switch yard.
		U-4	195	Jan-13	Sep-15	
Nabi Nagar TPP	Bihar	U-1	250	May-13	Sep-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). Law and order problem.
		U-2	250	Sep-13	Mar-16	
		U-3	250	Jan-14	Sep-16	
		U-4	250	May-14	Apr-17	
New Nabi Nagar TPP	Bihar	U-1	660	Jan-17	Jun-17	Acquisition of balance land and relocation of homestead owners still living inside the project area.
		U-2	660	Jul-17	Sep-17	
		U-3	660	Jan-18	Jan-18	
Lara TPP	Chhattisgarh	U-1	800	Nov-16	Nov-16	
		U-2	800	May-17	May-17	
Bokaro TPS "A" Exp.	Jharkhand	U-1	500	Dec-11	Sep-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. Re-awarding of CHP order.
North Karanpura TPP	Jharkhand	U-1	660	Feb-18	Feb-18	
		U-2	660	Aug-18	Aug-18	
		U-3	660	Feb-19	Feb-19	
Kudgi STPP Ph-I	Karnataka	U-1	800	Dec-15	May-16	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.
		U-2	800	Jun-16	Aug-16	
		U-3	800	Dec-16	Dec-16	

Mouda TPP	Maharashtra	U-3	660	Mar-16	Apr-16	
		U-4	660	Sep-16	Sep-16	
Solapur TPP	Maharashtra	U-1	660	May-16	May-16	
		U-2	660	Nov-16	Nov-16	
Vindhyachal TPP Ph-V	MP	U-13	500	Aug-15	Oct-15	Delay in BOPs order. Delay in erection of boiler material.
Gadarwara STPP	MP	U-1	800	Mar-17	Jun-17	Delay in balance land acquisition and ordering of balance BoP's. Stoppage of work due to agitation by villagers.
		U-2	800	Sep-17	Nov-17	
Dailipalli TPP	Odisha	U-1	800	Feb-18	Feb-18	
		U-2	800	Jun-18	Jun-18	
Neyveli TPS-II Exp.	TN	U-2	250	Jun-09	Aug-15	Delay in COD declaration of Unit -1 due to major modifications done in U-1 Boiler. The same modifications has been done in U-2 as per U-1.
Tuticorin JV	TN	U-1	500	Mar-12	Feb-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 obtaining statutory clearances (wild life, forest clearance etc.)
		U-2	500	Aug-12	May-15	
Monarchak CAPP	Tripura	GT	61.3	Mar-13	Apr-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.
		ST	39.7	Jul-13	Jun-15	
Agartala CAPP	Tripura	ST-1	51	Mar-15	Mar-15	
		ST-2		Jun-15	Jan-15	
Unchahar St- IV	UP	U-6	500	Dec-16	Jun-17	Delay in award of main plant civil work packages and BOPs.
Meja STPP	UP	U-1	660	Jun-16	Jun-16	Delay in supply of boiler material by M/s BGR. Slow progress of main plant civil works.
		U-2	660	Dec-16	Jun-17	
Tanda TPP	UP	U-1	660	2018-19	2018-19	
		U-2	660	2018-19	2018-19	
Raghunathpur TPP, Ph-I	WB	U-2	600	May-11	Jun-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 stoppage of work by local people. Replacement of bottom ring header. Delay due to damage of boiler insulation.
Raghunathpur TPP, Ph-II	WB	U-1	660	Aug-17	Oct-18	Delay in start of main plant civil works.
		U-2	660	Jan-18	Mar-19	
STATE SECTOR						
Damodaram Sanjeevaiah TPS	AP	U-2	800	Jan-13	Jan-15	Due to delay in start of civil works and delay in supplies. Delay in readiness of external CHP, RWPH and CT. Delay in readiness of transmission line.
Rayalseema TPP St-III	AP	U-6	600	Jul-14	Dec-16	Delay in start & completion of civil works and land acquisition.
Namrup CCGT	Assam	GT	70	Sep-11	Sep-15	Delay in start and slow progress 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 re-award of civil and EMI agency.
		ST	30	Jan-12	Dec-15	
Barauni TPS Extn.	Bihar	U-1	250	May-14	Oct-15	Delay in obtaining Environmental clearance, Delay in readiness of CT, CW system etc.
		U-2	250	Jul-14	Dec-15	
Marwa TPP	Chhattisgarh	U-2	500	Jul-12	Mar-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.
Sikka TPP Extn.	Gujarat	U-3	250	Oct-13	Mar-15	Delay in readiness of civil fronts and placement of BOPs orders. Slow progress of erection of boiler & TG. Slow progress in BoPs. Change of BTG erection agency. Delay in supply of material by BHEL.
		U-4	250	Jan-14	Jun-15	

Bhavnagar CFBC TPP	Gujarat	U-1	250	Oct-13	Mar-15	Delay in civil works and non - sequential supply. Slow progress of BoPs. Delay in readiness of AHP and Lignite handling plant.
		U-2	250	Dec-13	Jun-15	
Wanakbori TPS Extn.	Gujarat	U-8	800	Oct-18	Oct-18	
Bellary TPS	Karnataka	U-3	700	Aug-14	Nov-15	Delay in awarding civil contract for main plant and BoPs. Delay in awarding of CHP & AHP. Dispute between AHP vendor and BHEL. Delay in supply of L.P. Rotor.
Yermarus TPP	Karnataka	U-1	800	Apr-14	Jul-15	Repeated soil investigations due to change in plot plan and additional soil investigation at specific areas and Illrd party vetting.
		U-2	800	Oct-14	Nov-15	
Chandrapur TPS	Maharashtra	U-8	500	Jun-12	Mar-15	Delay in placement of BoPs order and delay in main plant equipment supply. Delay in readiness of BoPs and Heavy monsoon.
		U-9	500	Sep-12	Jul-15	
Koradi TPP Expn.	Maharashtra	U-8	660	Dec-13	Mar-15	Delay in civil works. Delay 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-9	660	Jun-14	Jul-15	
		U-10	660	Dec-14	Feb-16	
Parli TPP Expn.	Maharashtra	U-8	250	Jan-12	Mar-15	Delay in BTG supply. Delay in approval of drawings. Slow erection work. Slow progress in BoPs. Commercial dispute with M/s Sunil Hitech.
Chhabra STPP	Rajasthan	U-5	660	Jun-16	Apr-17	Slow progress of boiler erection.
Kalisindh TPS	Rajasthan	U-2	600	Mar-12	Jan-15	Delay in erection of bunkers and coal mills and supply of balance material by M/s, BGR.
Suratgarh STPP	Rajasthan	U-7	660	Sep-16	Apr-17	Slow progress of boiler erection.
		U-8	660	Dec-16	Jul-17	
Kakatiya TPP Extn	Telangana	U-1	600	Jul-12	Dec-15	Delay in placement of order for BoP's & erection contract for boiler. Delay in handing over of boiler & ESP foundation and civil fronts by BoP contractor. Change in BoP consortium leader due to financial crisis.
Singareni TPP	Telangana	U-1	600	Feb-15	Nov-15	Delay in placement of order for BOPs.
		U-2	600	Jun-15	Mar-16	
Anpara-D	UP	U-6	500	Mar-11	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 & FO system.
		U-7	500	Jun-11	Aug-15	
Sagardighi TPP-II	WB	U-3	500	Jul-14	Jun-15	Slow progress in erection and supply of BTG material. Delay in placement of order for electrical erection work. Slow progress of AHP.
		U-4	500	Oct-14	Sep-15	
PRIVATE SECTOR						
Bhavanapadu TPP Ph-I	AP	U-1	660	Oct-13	Mar-17	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.
		U-2	660	Mar-14	Oct-17	
NCC TPP	AP	U-1	660	Mar-15	Apr-16	Delay in start and slow progress of civil works. Delay in supply & erection of material due to financial problem.
		U-2	660	Jun-15	Aug-16	
Painampuram TPP	AP	U-1	660	May-14	Dec-14	Delay in start of TG civil work. Delay because of change in foundation design due to soil issue.
		U-2	660	Aug-14	Mar-15	
Simhapuri Energy Pvt Ltd Ph-II	AP	U-4	150	Feb-12	Jan-15	Delay in commissioning of phase-I of the project and delay in supply of TG, CHP, refractory material and MS diffuser.
Thamminapatnam TPP stage -II	AP	U-3	350	May-12	Aug-16	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	
Vizag TPP	AP	U-1	520	Jun-13	Mar-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	Aug-15	
Jas Infra. TPS	Bihar	U-1	660	Aug-14	13th plan	No work is going on at site.
		U-2	660	Dec-14	13th plan	
		U-3	660	Apr-15	13th plan	
		U-4	660	Aug-15	13th plan	

Akaltara TPP (Naiyara)	<i>Chhattisgarh</i>	U-3	600	Dec-12	Nov-15	Shortage of manpower, agitation by Villagers, supply of material due to shortage of fund.
		U-4	600	Apr-13	Jul-16	
		U-5	600	Aug-13	Dec-16	
		U-6	600	Dec-13	Apr-17	
Baradarha TPP	<i>Chhattisgarh</i>	U-2	600	Jul-13	Mar-15	Delay in Readiness of CHP & AHP, mills. Delay due to problem faced in Generator Stator. Delay in supply of cannibalized / missing items.
Balco TPP	<i>Chhattisgarh</i>	U-1	300	Feb-11	Apr-15	Collapse of chimney. Delay in issuing consent to operate by the State Govt.
		U-2	300	Nov-10	Jun-15	
Bandakhar TPP	<i>Chhattisgarh</i>	U-1	300	Dec-12	Feb-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	<i>Chhattisgarh</i>	U-1	300	Aug-13	Jun-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	Sep-15	Delay in start of civil works. Slow progress of pressure parts erection.
		U-3	300	Feb-14	13th plan	Work yet to start.
		U-4	300	May-14	13th plan	Work yet to start.
Lanco Amarkantak TPP-II	<i>Chhattisgarh</i>	U-3	660	Jan-13	2017-18	Delay in acquisition of land for water system. Presently no work is going at site due to financial problems.
		U-4	660	Mar-13	2017-18	
Raikheda TPP	<i>Chhattisgarh</i>	U-1	685	Sep-13	Jan-15	Delay in start of civil works. Progress of various activities suffered some time due to financial problems.
		U-2	685	Jan-14	Jul-15	
Singhitarai TPP	<i>Chhattisgarh</i>	U-1	600	Jun-14	Dec-15	Delay in land acquisition. Slow progress of Boiler & TG erection. Delay due to financial problems.
		U-2	600	Sep-14	Jun-16	
Swastic TPP	<i>Chhattisgarh</i>	U-1	25	Jun-12	Mar-15	Delay in readiness of BoPs. Delay due to commercial dispute with CHP vendors & refractory work and defect in super heater coil. Delay in getting Start up power due to transfer of the land of 132 Kv pooling sub station from CSIDC to CSPTCL.
Tamnar TPP	<i>Chhattisgarh</i>	U-3	600	Sep-14	Mar-15	Delay in start of boiler erection. Delay in receiving of consent to operate.
		U-4	600	Nov-14	Jul-15	Delay in readiness of main plant civil works and slow boiler erection.
TRN Energy TPP	<i>Chhattisgarh</i>	U-1	300	Dec-13	Jul-15	Delay in start of civil works. Slow progress in erection works of boiler and T.G. Manpower shortage.
		U-2	300	Apr-14	Dec-15	
Uchpinda TPP	<i>Chhattisgarh</i>	U-1	360	May-12	Apr-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	Jun-15	
		U-3	360	Feb-13	Sep-15	
		U-4	360	Jul-13	Mar-16	
Salora TPP	<i>Chhattisgarh</i>	U-2	135	Sep-11	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.
Visa TPP	<i>Chhattisgarh</i>	U-1	600	Aug-13	2017-18	Order for AHP, Fire protection system, AC & Ventilation system, LT/HT Switchgear, Cables, Air Compressor, LT transformer, Station, GT & Unit transformer not yet placed. Acquiring of land for Railway siding is pending. Lease deed for 67 acres land. Work is on hold due to financial crunch.
Matrishri Usha TPP Ph-I	<i>Jharkhand</i>	U-1	270	May-12	2017-18	Law and order problem. Delay in supply of BTG equipment. Delay in readiness of transmission line due to forest clearance. Work held up due to financial problems since Nov, 12.
		U-2	270	Jun-12	2017-18	
Matrishri Usha TPP Ph-II	<i>Jharkhand</i>	U-3	270	Feb-13	13th plan	Law and order problem and delay in supply of BTG material. Work is held up due to financial problems at site. May slip to 13th plan.
		U-4	270	Mar-13	13th plan	

Tori TPP	<i>Jharkhand</i>	U-1	600	Jun-13	Apr-17	Law and order problem. Delay in start of civil work & slow progress of works. Delay in MOEF clearance for Unit-2.
		U-2	600	Jan-15	Oct-17	
Amravati TPP Ph-I	<i>Maharashtra</i>	U-3	270	Jan-12	Feb-15	Non-sequential supply of BTG material. Delay in readiness of Civil Fronts. Payment issue with BHEL. Delay in insulation application. Delay in readiness of HFO, CHP & AHP. Re-awarding of boiler erection agency. Readiness of railway siding.
		U-4	270	Feb-12	Jun-15	
		U-5	270	Mar-12	Sep-15	
Amravati TPP Ph-II	<i>Maharashtra</i>	U-1	270	Jul-14	13th plan	No Work is going on at site due to financial problems.
		U-2	270	Sep-14	13th plan	
		U-3	270	Nov-14	13th plan	
		U-4	270	Jan-15	13th plan	
		U-5	270	Mar-15	13th plan	
Bijora Ghanmukh TPP	<i>Maharashtra</i>	U-1	300	Dec-16	17-18	Delay in start of boiler civil works.
		U-2	300	Mar-17	17-18	
Lanco Vidarbha TPP	<i>Maharashtra</i>	U-1	660	Jan-14	13th plan	No work is going on at site due to financial problems.
		U-2	660	May-14	13th plan	
Nasik TPP Ph-I	<i>Maharashtra</i>	U-2	270	Apr-12	Jan-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-16	Non-acceptance of BTG material by project authorities. No work is going at site due to financial problems.
		U-4	270	Aug-12	Sep-16	
		U-5	270	Oct-12	Mar-17	
Nasik TPP Ph-II	<i>Maharashtra</i>	U-1	270	Apr-13	13th plan	No Work is going on at site due to financial problems.
		U-2	270	Jun-13	13th plan	
		U-3	270	Aug-13	13th plan	
		U-4	270	Oct-13	13th plan	
		U-5	270	Dec-13	13th plan	
Anuppur TPP Ph-I	<i>MP</i>	U-1	600	Apr-13	Jan-15	Delay in start and slow progress of civil works. Delay in supply of Drum. Readiness of insulation of boiler and ESP.
		U-2	600	Aug-13	Jul-15	
Mahan TPP	<i>MP</i>	U-2	600	Jun-15	Jun-15	Delay in development of Coal Block.
Nigri TPP	<i>MP</i>	U-2	660	Dec-13	Feb-15	Delay in start of civil works. Delay in preparation of ACW system. Delay in readiness of Transmission line.
Sasan UMPP	<i>MP</i>	U-6	660	Apr-16	Jan-15	
Gorgi TPP	<i>MP</i>	U-1	660	Jun-13	17-18	Order for main plant equipment has not been placed so far.
Seoni TPP Ph-I	<i>MP</i>	U-1	600	Mar-13	Apr-15	Delay in readiness of civil fronts. Chimney readiness. Delay in supply of boiler and TG material due to financial problem.
Niwari TPP	<i>MP</i>	U-2	45	Apr-14	15-16	Work held up due to administration reasons.
Derang TPP	<i>Orissa</i>	U-2	600	Jun-12	Jan-15	Delay in commissioning of unit-1.Law and order problem. Delay in land acquisition. Agitation by villagers.
Ind Bharat TPP (Orissa)	<i>Orissa</i>	U-1	350	Sep-11	Mar-15	Delay due to heavy rains. Delay in readiness of transmission line for start up power.
		U-2	350	Dec-11	Jun-15	
KVK Nilanchal TPP	<i>Orissa</i>	U-1	350	Dec-11	Jun-16	Initially delayed due to chimney clearance and law & order problem. Work was held up due to stay by Hon'ble High Court of Orissa. Hon'ble High Court vide dated 20.05.14 has given order to start the work. Delay in restart of work.
		U-2	350	Jan-12	17-18	
		U-3	350	Mar-12	17-18	
Lanco Babandh TPP	<i>Orissa</i>	U-1	660	Apr-13	17-18	Delay in land acquisition. No work is going on at site due to financial problem.
		U-2	660	Aug-13	17-18	
Malibrahmani TPP	<i>Orissa</i>	U-1	525	Dec-12	May-15	Delay in land acquisition and delay in supply of TG hall structures. Slow progress due to financial problem.
		U-2	525	Feb-13	Dec-15	
Goindwal Sahib	<i>Punjab</i>	U-1	270	Apr-13	Jun-15	Delay in readiness of CHP & AHP. Delay in readiness of Railway line. No progress of work at site due to financial problem.
		U-2	270	Oct-13	Sep-15	
Talwandi Sabo TPP	<i>Punjab</i>	U-2	660	Jan-13	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	Jun-15	

Melamaruthur TPP	<i>TN</i>	U-2	600	Mar-12	Jun-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)	<i>TN</i>	U-1	660	May-12	Sep-17	Late start and slow progress of civil works and delay in supply of boiler structural material at site.
Prayagraj (Bara) TPP	<i>UP</i>	U-1	660	Feb-14	Jul-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	Dec-15	
		U-3	660	Dec-14	Mar-16	
Lalitpur TPP	<i>UP</i>	U-1	660	Oct-14	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	Jun-15	
		U-3	660	Jun-15	Dec-15	
Haldia TPP	<i>WB</i>	U-1	300	Aug-14	Jan-15	Delay in readiness of power evacuation system.
		U-2	300	Nov-14	Mar-15	

HT- Hydro Test
 BLU- Boiler Light UP
 TG- Turbine Generator
 AWP- Ash Water Pump Home
 BOP- Balance of Plant
 SBO- Steam Blowing Off
 CHP- Coal Handling Plant
 EPC- Engineering Procurement & Construction

RO/DM- Reverse Osmosis / Demineralised
 GTG- Gas Turbine Generator
 STG- Steam Turbine Generator
 EDTA- Ethylene Diamine Tetra Acetic Acid
 RWPH- Raw Water Pump Home
 HRSG- Heat Recovery Steam Generator
 BTG- Boiler Turbine Generator
 NGT- National Green Tribunal

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 4190 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

Details Of Under Construction Hydro Electric Projects (above 25 MW)

Sl. No	Project Name	Sector	Unit No.	Cap. (MW)	Org. Comm. Sched.	Latest Comm. Sched.	Reasons for delay
Jammu & Kashmir							
1	Kishanganga	Central	1	110	2015-16	2016-17	<ul style="list-style-type: none"> ➤ In view of price bid offered by the lowest bidder for turnkey execution of the project being very high, the revised CCEA approval accorded on 14.01.2009. ➤ Heavy Rainfall in March, 2011. ➤ Cavity in HRT - TBM portion. ➤ Poor geology in Access tunnel. ➤ Work stopped from 29.08.2012 to 17.10.2012 by Locals. ➤ Dam works affected due to arbitration proceedings at International Court of Arbitration. ➤ Employment issue.
			2	110	2015-16	2016-17	
			3	110	2015-16	2016-17	
2	Baglihar-II	State	1	150	2015-16	2016-17	<ul style="list-style-type: none"> ➤ Delay in finalization of cost of contract. ➤ E&M works critical.
			2	150	2015-16	2016-17	
			3	150	2015-16	2016-17	
3	Ratle	Private	1	205	2017-18	2017-18	
			2	205	2017-18	2017-18	
			3	205	2017-18	2017-18	
			4	205	2017-18	2017-18	
			5	30	2017-18	2017-18	
Himachal Pradesh							
4	Kol Dam	Central	1	200	2008-09	2015-16	<ul style="list-style-type: none"> ➤ Slow progress of clay/earth filling of dam, Grouting of dam galleries, Concreting of Spillway. ➤ Contractual issues. ➤ Delay in procurement of steel. ➤ Right bank failure due to poor geology, seepage at foundation of clay core. ➤ Seepage in diversion tunnel during reservoir impounding ➤ FCA clearance for 44 ha. Land for reservoir impounding beyond EL 574.
			2	200	2008-09	2015-16	
			3	200	2008-09	2015-16	
			4	200	2009-10	2015-16	
5	Parbati - II	Central	1	200	2009-10	2016-17	<ul style="list-style-type: none"> ➤ Hon'ble High Court of Himachal Pradesh ban on stone crusher operation. ➤ Delay in revised forest clearance. ➤ TBM suffered extensive damage due to heavy ingress of water and slush in TBM face in Nov, 2006. ➤ Slide in Power House area in Feb, 07. ➤ Flash flood in August, 2011. ➤ Jiwa Nallah works affected due to cavity treatment. ➤ Contractual issues.
			2	200	2009-10	2016-17	
			3	200	2009-10	2016-17	
			4	200	2009-10	2016-17	
6	Kashang-I	State	1	65	2013-14	2016-17	<ul style="list-style-type: none"> ➤ Slow progress of civil and E&M works. ➤ Flash flood in June, 2013. ➤ Approach roads washed off during heavy rains in Monsoon 2013.

7	Kashang-II & III	State	1 2	65 65	2013-14 2013-14	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Local issues. Works could not be started due to continuous agitation by Lipa villagers. Matter is sub-judice. ➤ Flash flood in June, 2013.
8	Uhl-III	State	1 2 3	33.33 33.33 33.33	2006-07 2006-07 2006-07	2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Delay in award of works. ➤ Contract for construction of HRT rescinded twice i.e. during May, 2008 & July, 2010 due to slow progress and non-performance by the contractor. ➤ Poor geology in HRT.
9	Sawra Kuddu	State	1 2 3	37 37 37	2010-11 2010-11 2010-11	2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Delay in MOEF clearance. ➤ Delay in award of Civil & E&M works. ➤ Poor geology in HRT. ➤ Slow progress of HRT Lining. ➤ Contractual issues
10	Sainj	State	1 2	50 50	2014-15 2014-15	2015-16 2015-16	<ul style="list-style-type: none"> ➤ Slow progress of HRT and Barrage works ➤ Local issues
11	Shongtong Karcham	State	1 2 3	150 150 150	2017-18	2017-18	
12	Tidong-I	Private	1 2	50 50	2013-14 2013-14	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Delay in NOC by Projects affected Panchayats. suspension of works by Govt. for one year.
13	Tangnu Romai-I	Private	1 2	22 22	2014-15 2014-15	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Slow progress of civil works. ➤ Poor geology. ➤ Difficult area. ➤ Weather conditions & accessibility.
14	Sorang	Private	1 2	50 50	2012-13 2012-13	2015-16 2015-16	<ul style="list-style-type: none"> ➤ Poor geology. ➤ Difficult area. ➤ Weather conditions & accessibility. ➤ Penstock cracks / leakage during filling of Water conductor System.
15	Bajoli Holi	Private	1 2 3	60 60 60	2017-18 2017-18 2017-18	2017-18 2017-18 2017-18	
16	Chanju-I	Private	1 2 3	12 12 12	2017-18 2017-18 2017-18	2017-18 2017-18 2017-18	
Punjab							
17	Shahpurkandi	State	1 2 3 4 5 6 7	33 33 33 33 33 33 8	2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18	2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18	
Uttarakhand							
18	Tapovan Vishnughad	Central	1 2 3 4	130 130 130 130	2012-13 2012-13 2012-13 2012-13	2016-17 2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Delay in procurement/deployment of Tunnel Boring Machine by Civil Contractor. ➤ Slow progress in Power house due to poor rock strata. ➤ Heavy water ingress due to bad geology in HRT and rock fall on TBM. ➤ Flash flood in June, 2013. ➤ Termination of civil contracts for Barrage and HRT.

19	Lata Tapovan	Central	1 2 3	57 57 57	2017-18 2017-18 2017-18	2018-19 2018-19 2018-19	<ul style="list-style-type: none"> ➤ Flash flood during June, 2013 (Uttarakhand Tragedy) ➤ Local issues / non-start of works in Barrage area. ➤ Hon'ble Supreme court ban on construction works.
20	Tehri PSS	Central	1 2 3 4	250 250 250 250	2011-12 2011-12 2011-12 2011-12	2018-19 2018-19 2018-19 2018-19	<ul style="list-style-type: none"> ➤ Specialised nature of E&M works. ➤ Approval of RCE as L-1 price bid was more than cost estimates. RCE approved in Oct.-10. ➤ Litigation. ➤ Poor geology. ➤ Local agitation at Asena Quarry. ➤ Agitation at muck disposal area. ➤ Poor preparedness of contractor. ➤ Revision of Lay out of machine hall due to poor geology. ➤ Permission for mining activity at Asena quarry.
21	Vishnugad Pipalkoti	Central	1 2 3 4	111 111 111 111	2018-19 2018-19 2018-19 2018-19	2018-19 2018-19 2018-19 2018-19	<ul style="list-style-type: none"> ➤ CCEA approval in Aug-2008 but works could not be awarded due to Forest clearance/diversion of forest land. Forest land was acquired in January-14 and subsequently works awarded in January-2014. ➤ Agitation by local villagers.
22	Shrinagar	Private	1 2 3 4	82.5 82.5 82.5 82.5	2005-06 2005-06 2005-06 2005-06	2015-16 2015-16 2015-16 2015-16	<ul style="list-style-type: none"> ➤ Financial Closure. ➤ Slow progress of dam works. ➤ MoEF issued notice to stop works since 30.05.2011 till August, 2013 ➤ Local issues. ➤ Flash flood in June, 2013. ➤ Leakage in power channel during water conductor system filling.
23	Singoli Bhatwari	Private	1 2 3	33 33 33	2014-15 2014-15 2014-15	2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Poor geology in HRT. ➤ Agitation by local people. ➤ Flash flood in June,2013.
24	Phata Byung	Private	1 2	38 38	2013-14 2013-14	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Flash flood in June,2013.
Madhya Pradesh							
25	Maheshwar	Private	1 2 3 4 5 6 7 8 9 10	40 40 40 40 40 40 40 40 40 40	2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02	2015-16 2015-16 2015-16 2016-17 2016-17 2016-17 2016-17 2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ R&R issues ➤ Cash flow problem with developer
Maharashtra							
26	Koyna Left Bank Power House	State	1 2	40 40	2017-18 2017-18	2017-18 2017-18	
Telangana							
27	Lower Jurala	State	1 2 3	40 40 40	2011-13 2011-13 2011-13	2014-15 2014-15 2014-15	<ul style="list-style-type: none"> ➤ Delay in award of E&M works. ➤ Slow progress in civil works. Land acquisition problem. ➤ Unprecedented flood in 2009, 2010, 2012 & 2013.

			4 5 6	40 40 40	2011-13 2011-13 2011-13	2014-15 2015-16 2015-16	<ul style="list-style-type: none"> ➤ Frequent bandh. ➤ Agitation by local villagers. ➤ Right flank Dam concreting was stopped by the villagers from 23.04.2011 to 30.11.2012. ➤ Slow progress of HM works. ➤ Unit-1 & 2 could not be commissioned in 2013-14 due to less availability of water. ➤ Submergence of Power House on 30.07.2014 due to release of flood water from Priyadarshni Jurala.
28	Pulichintala	State	1 2 3 4	30 30 30 30	2009-11 2009-11 2009-11 2009-11	2015-16 2015-16 2016-17 2016-17	<ul style="list-style-type: none"> ➤ E&M works. ➤ Unprecedented floods in Oct.2009 & Sept.2011. ➤ Contractual issues. ➤ Slow progress of Power House works. ➤ Contractual issues.
Andhra Pradesh							
29	Nagarjuna Sagar Tail Pool Dam	State	1 2	25 25	2008-09 2008-09	2014-15 2014-15	<ul style="list-style-type: none"> ➤ Slow progress of dam due to frequent flooding during 2009, 2011 & 2013. ➤ Delay in award of HM works. ➤ Contractual issues in Dam works.
Kerala							
30	Pallivasal	State	1 2	30 30	2010-11 2010-11	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Slow progress of civil works. ➤ Delay in land acquisition. ➤ Change in alignment of Adit to HRT. ➤ Poor geology strata in HRT. ➤ Heavy Monsoon
31	Thottiyar	State	1 2	30 10	2012-13 2012-13	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Land acquisition issue. ➤ The works of weir and approach channel stopped from 2010 to 2012 by local people. ➤ The work stopped by Court from 12.12.2012 to April-2013.
West Bengal							
32	Teesta Low	Central	1 2 3 4	40 40 40 40	2009-10 2009-10 2009-10 2009-10	2015-16 2015-16 2015-16 2015-16	<ul style="list-style-type: none"> ➤ Delay in forest clearance. ➤ Flash flood in July, 2007, May, 2009 & July, 2010. ➤ Gorkha Jan Mukti agitations/bandhs. ➤ Cash crunch of Civil contractor (M/s HCC), the civil works are completely at halt since 20.03.2013.
Sikkim							
33	Teesta Stage III	Private	1 2 3 4 5 6	200 200 200 200 200 200	2011-12 2011-12 2011-12 2011-12 2011-12 2011-12	2014-15 2015-16 2015-16 2015-16 2015-16 2015-16	<ul style="list-style-type: none"> ➤ Delay in forest clearance. ➤ Works suffered due to earthquake in Sept.2011. ➤ Financial constraints with developer ➤ Delay in Pressure shaft works. ➤ Delay in Power Evacuation arrangement.
34	Teesta Stage VI	Private	1 2 3 4	125 125 125 125	2012-13 2012-13 2012-13 2012-13	2016-17 2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Poor geology. ➤ Land acquisition. ➤ Contractual issues. ➤ Funds constraints with developer.
35	Rangit-IV HE Project	Private	1 2 3	40 40 40	2012-13 2012-13 2012-13	2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Slow progress of HRT & Surge Shaft works due to poor geology. ➤ Works hampered due to earthquake in September, 2011. ➤ Financial constraints with developer.
36	Jorenthang Loop	Private	1 2	28 28	2012-13 2012-13	2014-15 2014-15	<ul style="list-style-type: none"> ➤ Poor geology. ➤ Forest clearance for Transmission line. ➤ Delay in HRT works.
37	Bhasmey	Private	1 2	25.5 25.5	2012-13 2012-13	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Forest clearance ➤ Financial constraints with developer.

38	Tashiding	Private	1 2	48.5 48.5	2017-18 2017-18	2017-18 2017-18	
39	Dikchu	Private	1 2 3	32 32 32	2017-18 2017-18 2017-18	2017-18 2017-18 2017-18	
40	Rangit-II	Private	1 2	33 33	2017-18 2017-18	2017-18 2017-18	
41	Rongnichu	Private	1 2	48 48	2017-18 2017-18	2017-18 2017-18	
42	Panan	Private	1 2 3 4	75 75 75 75	2018-19 2018-19 2018-19 2018-19	2018-19 2018-19 2018-19 2018-19	
Meghalaya							
43	New Umtru	State	1 2	20 20	2011-12 2011-12	2015-16 2015-16	<ul style="list-style-type: none"> ➤ Delay in award of works. ➤ Slow progress of civil works.
Arunachal Pradesh							
44	Pare	Central	1 2	55 55	2013-14 2013-14	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Law & Order problem. ➤ Lack of resources with the contractor. ➤ Poor geology. ➤ Flash flood in Sept, 2012. ➤ Poor approach roads. ➤ Concreting of Dam & associated HM works.
45	Kameng	Central	1 2 3 4	150 150 150 150	2009-10 2009-10 2009-10 2009-10	2016-17 2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Change in dam parameters. ➤ Slow progress in dam & HRT due to Bad geology, heavy seepage, inadequate machinery. ➤ Flash flood in Oct. 2008 and Sept. 2012. ➤ Ingress of water in HRT. ➤ Poor approach roads. ➤ Contractual issues. ➤ Shortage of aggregate. ➤ Clearance for quarry from State Govt.
46	Subansiri Lower	Central	1 2 3 4 5 6 7 8	250 250 250 250 250 250 250 250	2009-10 2009-10 2010-11 2010-11 2010-11 2010-11 2010-11 2010-11	2016-17 2016-17 2016-17 2016-17 2017-18 2017-18 2017-18 2017-18	<ul style="list-style-type: none"> ➤ Disruption of works by locals in Ar. Pradesh side. ➤ Slope failure in Power House in Jan, 2008. ➤ Damage to bridge on Ranganadi river. ➤ Change in design of surge shafts to surge tunnels. ➤ Stoppage of works due to agitation launched by Anti Dam activists against construction of Project. Work stopped since 16.12.2011. ➤ Issue of D/s impact studies.
47	Gongri	Private	1 2	72 72	2017-18 2017-18	2017-18 2017-18	
Mizoram							
48	Tuirial	Central	1 2	30 30	2006-07 2006-07	2016-17 2016-17	<ul style="list-style-type: none"> ➤ Works suspended earlier due to local unrest since June 2004. ➤ The work restarted on 14.01.2011. ➤ Poor approach roads. ➤ Inadequate mobilization by contractor. ➤ Slope failure in Power House.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4199
TO BE ANSWERED ON 18.12.2014

SALE OF POWER PROJECTS DUE TO LACK OF POWER DEMAND

4199. SHRI PONGULETI SRINIVASA REDDY:

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

- (a) whether the projections made in the 18th Electric Power Survey by the Central Electricity Authority has rendered major power investments idle;
- (b) if so, the details thereof;
- (c) whether certain private developers have fallen in debts and are selling their power plants;
- (d) if so, the details thereof and the reasons therefor; and
- (e) the steps taken/to be taken by the Government to resolve the problems of private power developers?

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) : These details are not compiled in Central Electricity Authority and Ministry of Power.

(e) : The Government of India has promulgated an ordinance stipulating the methodology to be followed for auction/allocation of cancelled coal blocks. Hon'ble Supreme Court has given six months' time to the allottees of producing coal blocks. Therefore, the power supply due to non-availability of coal from these blocks is not likely to be affected immediately. As far as gas based power projects are concerned, any significant relief would depend on increase in domestic gas production.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4235
TO BE ANSWERED ON 18.12.2014

SUPPLY OF POWER TO STATES

4235. SHRI GUTHA SUKENDER REDDY:
SHRI CH. MALLA REDDY:

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

- (a) whether the Southern Power Distribution Company Limited (SPDCL) has declared power holiday to industries in Andhra Pradesh and Telangana;
- (b) if so, the details thereof indicating the reasons for declaring power holidays; and
- (c) the corrective steps 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) : As per the information received from Government of Andhra Pradesh, the Andhra Pradesh Southern Power Distribution Company Limited (APSPDCL) has not declared power holiday to industries in Andhra Pradesh.

As per the information received from Government of Telangana, the details of power holidays implemented to Industries by Southern Power Distribution Company of Telangana Limited are as under:

Sl. No.	Period		Number of days	Remarks
	From	To		
1.	28.06.2014	30.08.2014	64	One day Power holiday / Week
2.	27.09.2014	07.10.2014	11	One day Power holiday / Week
3.	08.10.2014	27.10.2014	20	Two days Power holiday / Week
4.	28.10.2014	19.11.2014	23	One day Power holiday / Week

(b) : As informed by the State of Telangana, there was an average shortage of 800 to 1000 MW between demand and supply due to delay in monsoon and some loss of thermal generation due to coal shortage. To bridge the gap and to maintain the safety of the Grid power holiday to industrial sector as mentioned above was implemented.

(c) : Telangana Government has further informed that the following steps have been taken by them to overcome the power crisis in the State:

- i. Short Term Tenders have been issued for procurement of 2000 MW w.e.f. 29.05.2015 to 26.05.2016.
- ii. Long Term Tenders have been issued for power procurement of 2000 MW.
- iii. Tenders have been issued and price bids have also been opened for 500 MW Solar power procurement.
- iv. Memorandum of Understanding (MOU) has been entered into by State Industrial Infrastructure Corporation Ltd. (SECI), for setting up of 1000 MW Solar Power at Gattu Mandal in Mahaboobnagar District.
- v. MOU has been entered into with Government of Chhattisgarh for supply of 1000 MW power.
- vi. MOU has been entered into with M/s. BHEL for establishment of 6000 MW power projects in the State.
- vii. As per A.P. Reorganisation Act, 2014, a 4000 MW Power Plant is planned to be set up by NTPC in the State.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4237
TO BE ANSWERED ON 18.12.2014

APPOINTMENTS IN BBMB

†4237. SHRI CHANDRA PRAKASH JOSHI:

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

- (a) whether there has been a demand for appointment of full-time member from Rajasthan in Bhakra Beas Management Board (BBMB);
- (b) if so, the details thereof;
- (c) the reasons for not appointing any full time member from Rajasthan so far; and
- (d) the corrective measures 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 (d) : Yes, Madam. As per Section 79 (2) of the Punjab Re-organization Act, 1966, a Whole Time Chairman and two Whole Time Members are appointed by Central Government in Bhakra Beas Management Board (BBMB). A representative each from Government of Punjab, Haryana, Rajasthan and Himachal Pradesh and two representatives of the Central Government are also Members in the BBMB.

By convention, the Chairman of BBMB has always been appointed from outside the Member States and two Whole Time Members are appointed from Haryana and Punjab.

On persistent demand made by Govt. of Rajasthan at various fora, Ministry of Power moved a proposal to Ministry of Home Affairs (MHA), which deals with administration of the Act relating to the re-organization of States, that the relevant Section of the Punjab Reorganization Act, 1966 namely, Section 79 (2) (a) may be amended to make provision for a third Member in BBMB, so as to meet the demand of the State of Rajasthan for one whole time Member being appointed in BBMB from that State. MHA intimated that they have considered the proposal in consultation with Government of Punjab and Haryana and a view has been taken that no useful purpose would be served by amending Section 79 (2) (a) of the Punjab Reorganization Act, 1966.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4255
TO BE ANSWERED ON 18.12.2014

ZERO BASED BUDGETING IN BBMB

4255. COL. SONARAM CHOUDHARY:

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

- (a) whether any Committee was formed in Bhakra Beas Management Board (BBMB) to carry out exercise pertaining to Zero Based Budgeting therein;
- (b) if so, the details thereof and suggestions made thereby;
- (c) whether BBMB has implemented the said suggestions and if not, the reasons therefor; and
- (d) the corrective steps taken/to be 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) : No, Madam. The Bhakra Beas Management Board (BBMB) has informed that no Committee was constituted to carry out exercise pertaining to Zero Based Budgeting in Bhakra Beas Management Board.

(b) to (d) : Do not arise.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4258
TO BE ANSWERED ON 18.12.2014

INVESTMENT IN POWER SECTOR

4258. SHRI RAHUL SHEWALE:
SHRI VINAYAK BHAURAO RAUT:

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

- (a) whether the Government has assessed the need of investments to be made for the development of power sector during the next three years or Twelfth Plan period;
- (b) if so, the details thereof;
- (c) the manner in which the Government is likely to arrange the investments;
- (d) the extent to which the investors, developers, power equipment manufacturers will be benefited from such investment; and
- (e) the other steps taken by the Government to arrange the requisite investment?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : As per the 12th Five Year Plan (2012-17) document of Planning Commission, the investment required in electricity sector for the years 2014-15 to 2016-17 is Rs. 10.14 lakh crore as detailed below:

(Rs. In crore)

Years	Centre	State	Private	Total
2014-15	87,228	68,909	138,137	294,274
2015-16	97,616	75,888	159,966	333,470
2016-17	109,242	83,572	193,429	386,244
Total	294,086	228,369	491,532	1,013,988

(c) & (d) : Measures to enhance investment in the infrastructure sector, including power, in the Government of India Budget documents, 2014-15, include, inter-alia, Infrastructure Investment Trusts with tax-efficient pass-through status for PPP and other infra-structure projects; Rs.100 crore allocation for preparatory work for a new scheme "Ultra - Modern Super Critical Coal Based Thermal Power Technology"; resolution of the existing impasse in the coal sector and provision of adequate quantity of coal to power plants already/or likely to be commissioned by March 2015; encouragement to banks to extend long-term loans to infrastructure sectors; extension of the 10 year tax holiday to the undertakings which begin power generation, distribution and transmission by 31.03.2017.

(e) : Other measures, already taken by the Government of India to enhance investment in infrastructure sectors, including power, include, inter alia, long-term financial assistance to infrastructure projects by India Infrastructure Finance Co. Ltd; permitting limited investment in tax-free long-term infrastructure bonds since 2010-11; allowing external commercial borrowings for investment by import of capital goods, new projects, modernization and expansion of existing production units, as well as for part financing of rupee debt of existing power projects; 15% investment allowance deduction allowed to companies investing over Rs.100 crore in plant and machinery during 2013-15; financing restructuring of distribution companies launched with central assistance through a transition finance mechanism to enable restoration of their financial health; private sector participation in transmission sector by identifying projects for implementation through tariff based competitive bidding.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4261
TO BE ANSWERED ON 18.12.2014

IRREGULARITIES BY PRIVATE PLAYERS IN POWER SECTOR

†4261. SHRI LAXMAN GILUWA:
SHRI RAM TAHAL CHOUDHARY:
SHRIMATI KAMLA DEVI PAATLE:
SHRI BHAGWANT MANN:

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

- (a) whether cases of financial as well as other irregularities committed by private power distribution companies have been reported to the Government during the last three years and the current year;
- (b) if so, the details thereof along with the action taken thereon, State/UT/ company-wise;
- (c) whether any audits are under process or have been carried out regarding the irregularities by private players in power sector;
- (d) if so, the details and outcome thereof; and
- (e) the measures being taken by the Government to address these problems?

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) : No, Madam, no cases of financial as well as other irregularities committed by private power distribution companies have been received by Ministry of Power.

Electricity is a concurrent subject and the supply and distribution of electricity falls under the purview of respective State Government/State Power Utility.

As per the Electricity Act, 2003, appropriate Electricity Regulatory Commissions have been entrusted with the responsibility of overseeing the performance of the distribution licensees. Utilities have to comply with the standards of performance as applicable to them.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4265
TO BE ANSWERED ON 18.12.2014

ALLOTMENT OF LAND FOR GENERATION OF ELECTRICITY

4265. PROF. K.V. THOMAS:

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

- (a) whether State Government of Kerala has requested the Union Government for allotment of 150 acres of land from Fertilizers and Chemicals Travancore (FACT), Kochi for the production of electricity from Petcock, a by-product from Kochi Refinery; and
- (b) if so, the details thereof and 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) & (b) : Fertilizers and Chemicals Travancore (FACT), Kochi was requested by Government of Kerala for allotment of 150 acres of land for setting up of Petcoke based power plants. Considering the expansion projects of the Company, the Board of Directors, FACT has decided that the Company is not in a position to surrender 150 acres of land at its Kochi Division, as requested by the Government of Kerala.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4269
TO BE ANSWERED ON 18.12.2014

PLF IN THERMAL POWER SECTOR

4269. SHRI SHIVKUMAR UDASI:

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

- (a) the average Plant Load Factor (PLF) in thermal power generating units in the country for the last three years;
- (b) whether the Government conducts any review and assessment of units which operate below the national average PLF;
- (c) if so, the details thereof;
- (d) whether the Government is proposing any mandatory measures for improving the PLF in thermal power generating units; and
- (e) 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 national average Plant Load Factor (PLF) of Coal / Lignite based power generating stations during last three years i.e. 2011-12, 2012-13 and 2013-14 is 73.32%, 69.93% and 65.55% respectively.

(b) & (c) : Central Electricity Authority (CEA) conducts review from time to time to assess the performance of thermal power stations. In 2014-15 (up to November, 2014), 79 stations were having PLF below national average. This was due to various reasons such as planned maintenance, forced outages, transmission constraints, availability of fuel and quality of fuel, less schedule given by beneficiary states due to low demand/higher cost of generation.

(d) & (e) : To improve PLF of thermal power generating stations, following measures, inter-alia, are being taken :

- i. Thrust to increase domestic coal production and import of coal for meeting the shortfall in domestic coal.
- ii. Efforts are being made to make gas available for power sector.
- iii. Utilities are advised to follow best practices in operation and maintenance of the units to minimize forced outages.
- iv. Renovation, modernization and life extension of old generation units.
- v. Strengthening of inter-state and inter-regional transmission capacity for optimum utilization of available power.
- vi. Retirement of inefficient generating units.

GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.4287
TO BE ANSWERED ON 18.12.2014

INCREASE IN POWER GENERATION CAPACITY OF NTPC

†4287. SHRI DHARMENDRA YADAV:
SHRI ADHALRAO PATIL SHIVAJIRAO:
SHRI ANANDRAO ADSUL:

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

- (a) whether National Thermal Power Corporation (NTPC) with nearly 24,000 mega watt installed capacity has fixed a target for achieving 66,000 plus MW by 2017;
- (b) if so, the details thereof and the extent to which the said target has been achieved so far;
- (c) whether NTPC proposes to enter into other energy generation sectors to achieve the said target;
- (d) if so, the details along with plan formulated by NTPC in this regard;
- (e) whether any negotiations have been held with international banks and multinational institutions along with power equipment manufacturers to supplement the financial requirements of NTPC and to acquire necessary technologies and know how; and
- (f) if so, the details and the outcome 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) : Currently, NTPC and its Joint Ventures have 43,128 MW installed capacity and have fixed a target to become 51,000 MW plus by 2017.

(c) & (d) : NTPC has already diversified into hydro power and renewable power generation and already commissioned 95 MW of Solar Photovoltaic (PV) Project. Further, 800 MW of hydro, 8 MW of small hydro and 15 MW of Solar PV are under construction.

(e) & (f) : No negotiations have been held with international banks, multinational institutions or power equipment manufacturers to supplement the financial requirements of NTPC and to acquire necessary technologies and knowhow. However, NTPC has tied up necessary requirement of funds from domestic/foreign lenders for financing its capacity addition plan.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4289
TO BE ANSWERED ON 18.12.2014

COVERAGE UNDER DDUGJY

†4289. SHRIMATI KRISHNA RAJ:
SHRI VENKATESH BABU T.G.:
SHRI BHAIRON PRASAD MISHRA:

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

- (a) the aims and objectives of Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) along with its likely date of commencement/implementation including the funding pattern there under;
- (b) whether the Government has identified villages for coverage under the same and if so, the details thereof, State/UT-wise;
- (c) the fate of Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) after introduction and implementation of DDUGJY;
- (d) whether incomplete works under RGGVY are to be carried forward to DDUGJY; and
- (e) if so, the details of such works as on date in each State/UT of the country along with steps taken/to be taken to complete the said works under DDUGJY without any hurdle?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : Government of India has approved the "Deendayal Upadhyaya Gram Jyoti Yojana" (DDUGJY) on 3rd December, 2014 for:

- (i) Separation of agriculture and non-agriculture feeders facilitating judicious restoring of supply to agricultural & non-agriculture consumers in the rural areas; and
- (ii) Strengthening and augmentation of sub-transmission & distribution infrastructure in rural areas, including metering of distribution transformers/feeders/consumers.

.....2.

- (iii) Rural electrification, as per CCEA approval dated 01.08.2013 for completion of the targets laid down under RGGVY for 12th and 13th Plans by carrying forward the approved outlay for RGGVY to DDUGJY.

The components at (i) and (ii) of the above scheme will have an estimated outlay of Rs. 43033 crore including a budgetary support of Rs. 33453 crore from Government of India during the entire implementation period.

The funding mechanism under Deendayal Upadhyaya Gram Jyoti Yojana, are as under:

Agency	Nature of support	Quantum of support (Percentage of project cost)	
		Other than special Category States	Special Category States #
Govt. of India	Grant	60	85
Discom Contribution*	Own fund	10	5
Lender (FIs/Banks)	Loan	30	10
Additional Grant from GOI on achievement of prescribed milestones	Grant	50% of total loan component (30%) i.e.15 %	50% of total loan component (10%) i.e 5%
Maximum Grant by GOI (including additional grant on achievement of prescribed milestones)	Grant	75%	90%

Special Category State (All North Eastern States including Sikkim J&K, Himachal Pradesh and Uttarakhand).

* Minimum contribution by Discom(s) is 10% (5% in case of Special Category States). However, Discom(s) contribution can go up to 40% (15% in case of Special Category States), if they do not intend to avail loan. In case, the Discom(s) do not avail loan the maximum eligible additional grant would be 15% (5% in case of Special Category States) on achievement of prescribed milestones. The loan component would be provided by REC or by other FIs/Banks.

100% grant shall be provided by GOI towards expenditure incurred on activities for bridging the missing link of National Optical Fibre Network (NOFN), creation of Rural Electrification Data Hub at Rural Electrification Corporation & Project Management Agency (PMA) as per provision in the Scheme.

(b) : On the basis of the detailed guidelines on DDUGJY, State Governments are to submit DPRs.

(c) & (d) : The scheme of RGGVY as approved by CCEA for continuation in 12th and 13th Plans is subsumed in DDUGJY as a separate rural electrification component for which CCEA has already approved the scheme cost of Rs. 39275 crore including a budgetary support of Rs. 35447 crore. The unspent part of outlay will be carried forward to the new scheme of DDUGJY.

(e) : The status of implementation of RGGVY including the balance scope of works are at Annex.

ANNEX REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 4289 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

State-wise coverage, achievement & balance work of un-electrified villages, intensive electrified villages and release of free electricity connections to BPL households under erstwhile RGGVY now subsumed with DDUGJY.											
Sr. No.	State	Total	Un-electrified Villages			Intensive Electrified Villages			BPL Households		
			Coverage	Ach.	Balance	Coverage	Ach.	Balance	Coverage	Ach.	Balance
1	Andhra Pradesh	16	0	0	0	16155	16155	0	1997962	1997962	0
2	Arunachal Pradesh	16	2096	2041	55	1408	1340	68	53312	50431	2881
3	Assam	39	9436	8292	1144	23159	12752	10407	1812767	1164576	648191
4	Bihar	81	31176	23008	8168	39999	6734	33265	1.1E+07	2544166	8346825
5	Chhattisgarh	22	1731	1286	445	19354	14914	4440	1331993	1092959	239034
6	Gujarat	25	0	0	0	16176	16144	32	841219	841219	0
7	Haryana	21	0	0	0	5910	5137	773	220605	199173	21432
8	Himachal Pradesh	12	95	91	4	12093	10234	1859	17494	16655	839
9	J & K	17	282	209	73	3599	3175	424	106254	69079	37175
10	Jharkhand	39	18740	18136	604	24393	5786	18607	1942232	1314933	627299
11	Karnataka	36	58	58	0	33288	23972	9316	1040456	890549	149907
12	Kerala	14	0	0	0	1272	854	418	125598	117804	7794
13	Madhya Pradesh	86	1100	764	336	74467	30844	43623	2702209	1263905	1438304
14	Maharashtra	35	0	0	0	36464	36072	392	1226185	1220672	5513
15	Manipur	15	1018	633	385	3099	628	2471	143731	33899	109832
16	Meghalaya	7	1867	1823	44	3145	2921	224	109387	104360	5027
17	Mizoram	16	145	114	31	570	462	108	30917	20540	10377
18	Nagaland	22	106	92	14	1369	1113	256	113378	46566	66812
19	Odisha	63	17575	14430	3145	68231	26746	41485	4552356	2870496	1681860
20	Punjab	17	0	0	0	6580	6030	550	102176	100404	1772
21	Rajasthan	68	4226	4180	46	59358	33313	26045	1707492	1163691	543801
22	Sikkim	12	25	25	0	413	405	8	12108	11571	537
23	Tamil Nadu	29	0	0	0	10402	9673	729	525571	501202	24369
24	Tripura	4	26	0	26	10524	9485	1039	841901	712111	129790
25	Telangana	10	148	144	4	658	652	6	117163	117157	6
26	Uttar Pradesh	150	29180	27796	1384	90802	3163	87639	5183728	1078666	4105062
27	Uttarakhand	13	1512	1511	1	10790	10748	42	261100	261100	0
28	West Bengal	36	4213	4185	28	29903	23560	6343	2561787	2217571	344216
Total		921	124755	108818	15937	603581	313012	290569	40572072	22023417	18548655

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4290
TO BE ANSWERED ON 18.12.2014

COST OF HYDRO POWER GENERATION

4290. SHRI NINONG ERING:

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

- (a) whether per megawatt cost of Hydro power generation is lower than that of Thermal, Gas and Nuclear based power generation;
- (b) if so, the details thereof including the cost differences and the estimated potential of Hydro-Power generation in the country including North East;
- (c) the projects taken up by the Government to utilize the said potential; and
- (d) the time by which the projects are expected to be made operational?

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 per megawatt cost of Hydro, Thermal, Gas and Nuclear Power Projects commissioned in the recent past has been in the range as given below:

Hydro Power Projects	:	Rs.5.22 Crores to Rs.12.33 Crores
Thermal Power Projects	:	Rs. 4.76 Crores to Rs. 7.19 Crores
Gas Power Projects (CCGT)	:	Rs. 3.46 Crores to Rs. 4.79 Crores
Nuclear Power Projects	:	Rs. 6.02 Crores to Rs. 6.35 Crores

As per the re-assessment studies of hydro-electric potential carried out by the Central Electricity Authority (CEA) during 1978-87, the hydro power potential in terms of Installed Capacity (I.C.) of the country including North Eastern Region (NER) is assessed as 148701 MW, out of which 145320 MW of the potential consists of Hydro Electric (HE) schemes having I.C. above 25 MW.

(c) & (d): Of the assessed potential, Hydro-Electric Projects (HEPs) having aggregate installed capacity of 36080.9 MW have been commissioned, as on 15th December, 2014. In addition, Pumped Storage Schemes having aggregate installed capacity of 4785.60 MW are also under operation.

Presently, 46 nos. of HEPs (above 25 MW) aggregating to 13138 MW are under various stages of construction in the country. In addition, 2 Nos. pumped storage schemes having aggregate installed capacity of 1080 MW are under construction. 38 hydro electric schemes aggregating to an installed capacity of 24736 MW have been cleared by CEA which are yet to be taken up for construction due to various reasons. Also, Detailed Project Reports of 19 H.E. schemes aggregating to an installed capacity of 9378 MW are under examination for accord of concurrence by CEA.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4302
TO BE ANSWERED ON 18.12.2014

PER CAPITA SUPPLY OF ELECTRICITY UNITS

†4302. DR. VIRENDRA KUMAR:

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

- (a) the per capita average electricity units being supplied in the country at present;
- (b) whether any target has been fixed by the Government to supply per capita 1000 units of electricity in the country by the year 2016;
- (c) if so, the details thereof;
- (d) whether the Government has identified the sources to generate electricity to achieve the set target; and
- (e) 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 average per capita consumption of electricity of India for the year 2012-13 was 914.41 kWh and per capita electricity consumption for the year 2013-14 is 957 kWh as per the provisional figures of the Central Electricity Authority (CEA).

(b) to (e) : During 12th Plan, Generation capacity addition target of 88,537 MW has been planned from conventional sources comprising of 72,340 MW from thermal, 5,300 MW from nuclear and 10897 MW from hydro. In addition, the capacity addition planned from Renewable sources is 30,000 MW during 12th Five Year Plan. The per capita consumption of electricity is expected to exceed 1,200 units by the end of 12th Plan (2016-17).

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4306
TO BE ANSWERED ON 18.12.2014

DELAY IN IMPLEMENTATION OF POWER PROJECTS BY BHEL

4306. DR. KIRIT P. SOLANKI:
SHRI C.R. PATIL:
SHRI DEVUSINH CHAUHAN:

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

- (a) whether Gujarat State Electricity Corporation Limited (GSECL), the new power plants as well as R&M projects of existing power plants have been awarded to Bharat Heavy Electricals Limited (BHEL) and if so, the details thereof;
- (b) whether BHEL has not been able to execute any project within the stipulated time and if so, the details thereof and the reasons therefor;
- (c) whether the issue related to delay in implementation of power projects by BHEL has been raised by the State Government of Gujarat before the Union Government;
- (d) whether some other States are also facing the same difficulties; and
- (e) if so, the details thereof and the steps, the Union Government intends to take 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) & (b) : The details of power plants awarded to BHEL, State-wise including Gujarat along with commissioning schedule and reasons for delay are given at Annex-I. Similar details for R&M projects are given at Annex-II.

(c) & (d): Yes, Madam.

(e) : The steps taken by the Government for timely commissioning of ongoing projects awarded to M/s BHEL are given below:

1. Central Electricity Authority (CEA) continuously monitors the progress through frequent site visits and interaction with the developers and equipment suppliers. CEA holds review meetings periodically with the developers and other stakeholders and highlights the critical issues
2. A Power Project Monitoring Panel (PPMP) has been set up by the Ministry of Power for monitoring of Thermal and Hydro Generation projects targeted for commissioning during the 12th Plan and beyond along with the associated transmission system.
3. Regular reviews are undertaken by the Govt. of India at various levels including Ministry of Power, Ministry of Heavy Industries etc. to facilitate faster resolution of inter-ministerial and other outstanding issues.

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 4306 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

Details of delayed Under Construction Thermal Power Projects awarded to M/s BHEL in the country							
Project Name/Impl. Agency	State	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Time over run (Months)	Reasons for Delay
CENTRAL SECTOR							
Bongaigaon TPP (NTPC)	Assam	U-1	250	Jan-11	Jun-15	53	Frequent bandhs, Heavy monsoon and slow civil works. 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. Delay in supply of material by BHEL.
		U-2	250	May-11	Dec-16	67	
Barh STPP-II (NTPC)	Bihar	U-5	660	Oct-13	Mar-15	17	Delay in supplies and completion of T-23 welding joints by BHEL. Delay in readiness of CHP by others.
Muzaffarpur TPS Exp (NTPC)	Bihar	U-3	195	Oct-12	Mar-15	29	Delay in award of main plant civil works. Delay in completion of civil works. Delay in land acquisition & availability of Right of Approach.(ROA) for Raw Water Line. Delay in readiness of CHP , AHP and switch yard not because of BHEL. Delay n supply of BTG equipments by BHEL.
		U-4	195	Jan-13	Sep-15	32	
Nabi Nagar TPP (NTPC)	Bihar	U-1	250	May-13	Sep-15	28	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. Agitation by villagers. Financial crunch faced by CHP vendor (Techpro). Supply of main plant and equipments by BHEL.
		U-2	250	Sep-13	Mar-16	30	
		U-3	250	Jan-14	Sep-16	32	
		U-4	250	May-14	Apr-17	35	
New Nabi Nagar TPP (NTPC)	Bihar	U-1	660	Jan-17	Jun-17	5	Acquisition of balance land by others not due to BHEL.
		U-2	660	Jul-17	Sep-17	2	
		U-3	660	Jan-18	Jan-18	0	
Bokaro TPS "A" Exp. (DVC)	Jharkhand	U-1	500	Dec-11	Sep-15	45	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. by others
Kudgi STPP Ph-I (NTPC)	Karnataka	U-1	800	Dec-15	May-16	5	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. By others
		U-2	800	Jun-16	Aug-16	2	
		U-3	800	Dec-16	Dec-16	0	
Vindhyachal TPP Ph-V (NTPC)	MP	U-13	500	Aug-15	Oct-15	2	Delay in BOPs order- others. Delay in erection of boiler material by BHEL
Gadarwara STPP (NTPC)	MP	U-1	800	Mar-17	Jun-17	3	Delay in balance land acquisition and ordering of balance BoP's- By others
		U-2	800	Sep-17	Nov-17	3	
Neyveli TPS-II Exp. (NLC)	TN	U-2	250	Jun-09	Aug-15	74	Delay in COD declaration of Unit -1 due to major modifications done in U-1 Boiler. The same modifications has been done in U-2 as per U-1. Presently the Unit is under shut down to attend bearing problem ... by BHEL
Tuticorin JV (NLC)	TN	U-1	500	Mar-12	Feb-15	35	Change in design of foundations of main plant equipments by BHEL . Slow progress of civil works ,shortage of man power, delay in availability of soft water and start of power and delay in achievement of statutory clearances (wild life, forest clearance etc..) by others.
		U-2	500	Aug-12	May-15	33	
Monarchak CCPP (NEEPCO)	Tripura	GT	61.3	Mar-13	Apr-15	25	Delay in award of civil work contract and supply of material by BHEL. Delay in readiness of Gas pipe line and gas gathering station ... by others.
		ST	39.7	Jul-13	Jun-15	23	

Unchahar St- IV (NTPC)	UP	U-6	500	Dec-16	Jun-17	6	Delay in award of main plant civil work packages and BOPs ... by others.
Raghunath-pur TPP, Ph-II (DVC)	WB	U-3	660	Aug-17	Oct-18	14	Delay in start of main plant civil works .. By others.
		U-4	660	Jan-18	Mar-19	14	
Total Central Sector			12951				
STATE SECTOR							
Damodaram Sanjeevaiah TPS (APPDL)	AP	U-2	800	Jan-13	Feb-15	25	Due to delay in start of civil works and delay in readiness of external CHP, RWPH and CT due to others.. Delay in supply of boiler materials ... by BHEL
Rayalseema TPP St-III (APGENCO)	AP	U-6	600	Jul-14	Dec-16	29	Delay in start & completion of civil works and land acquisition ... by others
Namrup CCGT (APGCL)	Assam	GT	70	Sep-11	Mar-15	42	Delay in start and slow progress of civil works, Termination of civil contractor. Delay in supply of material by BHEL & shortage of skilled manpower, termination of NBPL order. Delay in re-award of civil and EMI agency ... by BHEL
		ST	30	Jan-12	Sep-15	44	
Barauni TPS Extn. (BSEB)	Bihar	U-1	250	May-14	Sep-15	16	Delay in obtaining Environmental clearance by others. Delay in readiness of CT, CW system etc. by BHEL.
		U-2	250	Jul-14	Dec-15	17	
Marwa TPP (CSPGCL)	Chhattisgarh	U-2	500	Jul-12	Feb-15	31	Initial delay is due to Change of award of Chimney. Delay in readiness of BOPs (CHP, AHP & 400 KV Switchyard etc., Shortage of man power by BHEL
Sikka TPP Extn. (GSECL)	Gujarat	U-3	250	Oct-13	Mar-15	17	Delay in readiness of civil fronts and placement of BOPs Orders. Slow progress of erection of boiler & TG. Slow progress in BoPs.Change of BTG erection agency. Delay in supply of material by BHEL.
		U-4	250	Jan-14	Jun-15	17	
Ukai TPP Extn.	Gujarat	U-6	500	Jan-11	Mar-13	26	Delay in placement of order for BOPs b BHEL. Delay in readiness of AHP & CHP by BHEL. Delay in readiness of water system by BHEL. Shortage of manpower by BHEL.
Bhavnagar CFBC TPP (Bhavnagar Energy)	Gujarat	U-1	250	Oct-13	Mar-15	17	Delay in civil works and non - sequential supply. Slow progress of BoPs. Delay in readiness of AHP and Lignite handling plant... by BHEL
Wanakbori TPS Ext.	Gujarat	U-8	800	Oct-18	Oct-18	0	
Bellary TPS (KPCL)	Karnataka	U-3	700	Aug-14	Aug-15	12	Delay in awarding civil contract for main plant and BoPs. Delay in awarding of CHP & AHP. Dispute between AHP vendor and BHEL. Delay in supply of L.P. Rotor by BHEL
Yermarus TPP (KPCL)	Karnataka	U-1	800	Apr-14	Jul-15	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 by BHEL
		U-2	800	Oct-14	Sep-15	11	
Chandrapur TPS (MSPGCL)	Maharashtra	U-8	500	Jun-12	Feb-15	32	Delay in placement of BoPs order and delay in main plant equipment supply. Delay in readiness of BoPs By BHEL.
U-9	500	Sep-12	Jun-15	33			
Parli TPP Expn. (MSPGCL)	Maharashtra	U-8	250	Jan-12	Mar-15	38	Delay in BTG supply by BHEL. Delay in approval of drawings. Commercial dispute with M/s Sunil Hitech. by others.
Suratgarh STPP (RRVUNL)	Rajasthan	U-7	660	Sep-16	Apr-17	7	Slow progress of boiler erection by BHEL
		U-8	660	Dec-16	Jul-17	7	
Kakatiya TPP Extn (TGENCO)	Telangana	U-1	600	Jul-12	Dec-15	41	Delay is by others.
Singareni TPP (Singareni Collieries Co. Ltd.)	Telangana	U-1	600	Feb-15	Nov-15	9	Delay in placement of order for BOPs ... not because of BHEL.
		U-2	600	Jun-15	Mar-16	9	
Anpara-D (UPRVUNL)	UP	U- 6	500	Mar-11	Mar-15	48	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 by BHEL
		U-7	500	Jun-11	Aug-15	50	
Sagardighi TPP-II (WBPDCCL)	WB	U-3	500	Jul-14	Jun-15	11	Slow progress in erection and supply of BTG material. Delay in placement of order for electrical erection work. Slow progress of AHP. Delay in placement of order for DM Plant.... Not because of BHEL.
		U-4	500	Oct-14	Sep-15	11	
Total State Sector			13470				

PRIVATE SECTOR							
Vizag TPP (HNPCL)	AP	U-1	525	Jun-13	Mar-15	21	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	525	Sep-13	Aug-15	23	
Baradarha TPP (DB POWER)	Chhattisgarh	U-2	600	Jul-13	Mar-15	20	Delay in Readiness of CHP & AHP, mills. Delay due to problem faced in Generator Stator .Delay in supply of cannibalized/ missing items.... By BHEL.
Tamnar TPP (O. P. Jindal)	Chhattisgarh	U-3	600	Sep-14	Mar-15	6	Delay in receiving of consent to operate by others.
Visa TPP (Visa Power Ltd)	Chhattisgarh	U-4	600	Nov-14	Jul-15	8	Order for AHP, Fire protection system, AC & Ventilation system, LT/HT Switchgear, Cables, Air Compressor, LT transformer, Station, GT & Unit transformer not yet placed. Acquiring of land for Railway siding is pending. Lease deed for 67 acres land. Work is on hold due to financial crunch... By others
		U-1	600	Aug-13	17-18		
Matrishri Usha TPP Ph-I (Corporate Power Ltd)	Jharkhand	U-1	270	May-12	16-17		Supply of BTG equipment-- by BHEL. Delay in readiness of transmission line due to forest clearance & Law and order problem. Work held up due to financial problems since Nov, 12.... By others.
		U-2	270	Jun-12	16-17		
Matrishri Usha TPP Ph-II (Corporate Power Ltd)	Jharkhand	U-3	270	Feb-13	13th Plan		Delay in supply of BTG material... by BHEL. Law and order problem. Work is held up due to financial problems at site ... by others.
		U-4	270	Mar-13	13th Plan		
Amravati TPP Ph-I (India Bulls)	Maharashtra	U-3	270	Jan-12	Feb-15	37	Non-sequential supply of BTG material..... by BHEL. Delay in readiness of Civil Fronts. Payment issue with BHEL. Delay in insulation application. Delay in readiness of HFO, CHP & AHP. Reawarding of boiler erection agency. Readiness of railway siding... by others.
		U-4	270	Feb-12	Jun-15	40	
		U-5	270	Mar-12	Sep-15	42	
Amravati TPP Ph-II (India Bulls)	Maharashtra	U-1	270	Jul-14	13th Plan		No Work is going on at site due to financial problems. .. by others.
		U-2	270	Sep-14	13th Plan		
		U-3	270	Nov-14	13th Plan		
		U-4	270	Jan-15	13th Plan		
		U-5	270	Mar-15	13th Plan		
Nasik TPP Ph-I (India Bulls)	Maharashtra	U-2	270	Apr-12	Jan-15	33	Non-sequential supply of BTG material and readiness of Mills,... by BHEL, Civil fronts readiness, payment issue with BHEL, delay in readiness of Railway siding , HFO, CHP & AHP, ducting insulation etc... by others.
		U-3	270	Jun-12	Jun-16		Non-Acceptance of BTG material by Project Authorities. No work is going at site due to financial problems... by others
		U-4	270	Aug-12	Sep-16		
		U-5	270	Oct-12	Mar-17		
		U-1	270	Apr-13	13th Plan		
Nasik TPP Ph-II (India Bulls)	Maharashtra	U-2	270	Jun-13	13th Plan		No Work is going on at site due to financial problems... by others.
		U-3	270	Aug-13	13th Plan		
		U-4	270	Oct-13	13th Plan		
		U-5	270	Dec-13	13th Plan		
		U-1	270	Apr-13	13th Plan		
Seoni TPP Ph-I (Jhabua Power Ltd)	MP	U-1	600	Mar-13	Apr-15	25	Delay in readiness of civil fronts. Chimney readiness. Delay in supply of boiler and TG material due to financial problem... by others.
Derang TPP (JITPL)	Orissa	U-2	600	Jun-12	Dec-14	30	Delay in commissioning of unit-1.Law and order problem. Delay in land acquisition. Agitation by villagers.. by others.
Malibrahmani TPP (MPCL)	Orissa	U-1	525	Dec-12	May-15	29	Delay in land acquisition and delay in supply of TG hall structures. Slow progress due to financial problem... by others.
		U-2	525	Feb-13	Dec-15	34	

Goindwal Sahib (GVK Power)	<i>Punjab</i>	U-1	270	Apr-13	Jun-15	26	Delay in readiness of CHP & AHP. Delay in readiness of Railway line. No progress of work at site due to financial problem. ..by others
		U-2	270	Oct-13	Sep-15	23	
Prayagraj (Bara) TPP (Paryagraj Power Gen. Co. Ltd.)	<i>UP</i>	U-1	660	Feb-14	Jun-15	16	Delay in BTG supply..., by BHEL . Raw water pipe line readiness and transmission line readiness for start up power. Progress of work at site delayed due to financial problems... by others .
		U-2	660	Jul-14	Dec-15	17	
		U-3	660	Dec-14	Mar-16	15	
Lalitpur TPP (Lalitpur power Gen. Ltd)	<i>UP</i>	U-1	660	Oct-14	Feb-15	4	Delay due to heavy rains, delay in TG erection start, fuel oil system readiness etc.& Financial problems... by others . Delay in Boiler insulation.... by BHEL .
		U-2	660	Feb-15	May-15	3	
		U-3	660	Jun-15	Dec-15	6	
Total Private Sector			15870				
Grand Total			42291.0				

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 4306 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

The list of R&M projects awarded to BHEL by other State power utilities and are facing the same difficulty i.e. delay in execution of R&M projects

Sl. No.	Name of TPS	Unit No.	Capacity (MW)		
Uttar Pradesh					
1	Obra TPS	7	100		
2	Obra TPS	9	200		
3	Obra TPS	10	200		
4	Obra TPS	11	200		
5	Parichha TPS	2	110		
6	Harduagunj TPS	7	110		
Bihaar					
7	Barauni	6	110		
8	Barauni	7	110		
Jharkhand					
9	Patratu	9	110		
Gujarat					
			Capacity (MW)	Schedule date of completion	Completion date of work
10.	Ukai TPS	1	120	05.04.2007	24.05.2008
11.	Ukai TPS	2	120	11.03.2009	24.02.2010

List of Schemes executed in part/whole by BHEL where completion of awarded R&M works got delayed in XII Plan

S. No.	Schemes for Completion in 12 th Plan (2012-17)	Original Schedule of Completion	Actual/Revised Schedule of Completion	Remarks
Jammu & Kashmir				
1.	Lower Jhelum, J&KPDC (3x35)=105 MW	2012-13	2014-15	
2.	Sumbal Sindh, J&KPDC (2x11.3)=22.6 MW	2012-13	2014-15	
Andhra Pradesh				
3.	Srisaillam RB, APGENCO (7x110)=770 MW	2012-13	2015-16	Delay also due to delayed shutdown of each generating unit for taking up respective works- others
Karnataka				
4.	Nagjhari, KPCL (6x135)=810 MW	2013-14	XIII Plan	Delay also due to additional works being taken up.- Others

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4313
TO BE ANSWERED ON 18.12.2014

ENERGY EFFICIENCY

4313. SHRI CH. MALLA REDDY:
SHRIMATI VASANTHI M.:

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

- (a) whether there is any proposal to start programme called "Demand Side Efficient Lightning" by coordinating with Bureau of Energy Efficiency (BEE) and Energy Efficiency Services Limited (EESL) in the country including Telangana;
- (b) if so, the details thereof;
- (c) whether functioning of BEE and EESL is upto the mark;
- (d) if not, the reasons therefor; and
- (e) the steps taken to monitor their functioning and bring improvement therein?

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. Under Demand Side Management initiatives, Energy Efficiency Services Limited (EESL) has engaged with several State Governments & Distribution Companies to implement Demand Side Efficient Lighting Programme. Under this programme, Light Emitting Diode (LED) lamps are distributed to household consumers by replacing incandescent bulbs. The following States have taken initiative in this regard with EESL:

Sl. No.	District/State	No. of eligible households	No. of LED distributed/ to be distributed
1.	Puducherry	2.45 lakhs (completed)	6.5 lakhs
2.	Guntur/A.P.	10 lakhs	20 lakhs
3.	Anantpur/A.P.	5 lakhs	10 lakhs
4.	Srikakulam/A.P.	5 Lakhs	10 lakhs
5.	West Godavari/A.P.	7.5 lakhs	15 lakhs
6.	Varanasi (urban)/U.P.	2 lakhs	6 lakhs
7.	Agartala/Tripura	1.5 lakhs	44.5 lakhs
8.	Karnataka	32.5 lakhs	95 lakhs
9.	Kerala	30 lakhs	60 lakhs
	Total	95.95 lakhs	267 lakhs

(c) : Yes, Madam.

(d) : Question does not arise.

(e) : Ministry of Power holds periodic performance review meetings with Bureau of Energy Efficiency and Energy Efficiency Services Limited.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4338
TO BE ANSWERED ON 18.12.2014

INADEQUATE FUNDS FOR POWER PROJECTS

4338. SHRI K. ASHOK KUMAR:
DR. P. VENUGOPAL:

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

- (a) whether the Government is working on measures to bail out thermal and hydropower plants which are facing cost and time overruns and do not have adequate funds;
- (b) if so, the details thereof; and
- (c) the concrete steps taken/to be taken to address the problem and to bring improvement in power sector?

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) : In order to ensure adequate funds for power projects and to bring improvement in power sector, the following steps have been taken:

- i. In case of cost and time over-runs, Power Finance Corporation has been supporting power projects by providing additional funding, where large investment has already been made and significant construction works have been completed.
- ii. A Working Group was set up under Chairmanship of CMD, India Infrastructure Finance Company Limited with representatives from banks and financial institutions as members to examine suggestions received from the Association of Power Producers.

- iii. Measures to enhance investment in infrastructure sector including power, announced through Union Budget 2014-15, include, inter-alia, Infrastructure Investment Trusts with tax efficient pass-through status for PPP and other infrastructure projects; Rs.100 crore allocation for preparatory work for a new scheme "Ultra- Modern Super Critical Coal Based Thermal Power Technology"; resolution of the existing impasse in the coal sector and provision of adequate quantity of coal to power plants already/or likely to be-commissioned by March, 2015; encouragement to banks to extend long term loans to infrastructure sector; extension of the 10 year tax holiday to the undertakings which begin power generation, distribution and transmission by 31.03.2017.
- iv. Allowing external commercial borrowings for investment by import of capital goods, new projects, modernisation and expansion of existing production units, as well as for part financing of rupee debt of existing power projects.
- v. The eligible date for borrowing in foreign currency has been extended to 30.06.2017 for concessional 5% tax rate on interest payment, to augment low cost long term foreign borrowings for Indian companies.
- vi. Infrastructure Debt Funds were set up to tap the overseas markets for long tenor pension and insurance funds, the first being launched in Feb 2013. Through take-out finance, credit enhancement and other innovative means, they would provide long-term low cost debt for infrastructure projects.
- vii. 15% investment allowance deduction allowed to companies investing over Rs.100 crore in plant and machinery during 2013-15.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4339
TO BE ANSWERED ON 18.12.2014

INSTALLATION OF TRANSFORMERS UNDER RGGVY

†4339. SHRI SATYAPAL SINGH:
SHRI JAI PRAKASH NARAYAN YADAV:

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

- (a) the capacity-wise details of transformers installed under Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) so far in each State/UT of the country including every district of Bihar;
- (b) whether the Government has taken any decision for replacing the low capacity transformers with high capacity transformers under RGGVY and if so, the details thereof;
- (c) whether the Government is aware that a large number of transformers installed under RGGVY are lying in burnt condition in the country particularly in Bihar;
- (d) if so, the details thereof, State/ location-wise; and
- (e) the steps taken/to be taken to address the issue?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : Under erstwhile Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY), High Voltage Distribution System (HVDS) was envisaged to reduce the chances of power theft and overall AT&C losses. Under HVDS, HT lines are taken near to the load centres i.e. clusters of households and then normally a small transformer of 16/ 25 KVA is provided there for providing electricity connections to the households. The strategy is to provide more number of smaller capacity transformers rather than one big transformer at village level without sacrificing the transformation capacity. The number and size of the transformers depend on the number of consumers & connected load, to be served from the transformers.

Further, based on the experience of implementation of erstwhile RGGVY under X & XI Plan, and to address the problem of overloading which results in burning of transformer, installation of 63 KVA transformers and 100 KVA transformers have been allowed for all projects in every State (subject to proper justification by the State) including Bihar under XII Plan.

(c) to (e) : Government of India constituted a high level committee comprising of a team of officers from CEA, REC & Implementing Agencies which visited State of Bihar, Jharkhand and Uttar Pradesh in August 2012 to enquire the issues of failure of distribution transformers (DTs) installed under erstwhile RGGVY. As per report of the Committee, common causes of failure of distributions transformers are as under:

- i. Insufficient Oil level.
- ii. Seepage of water in oil.
- iii. Prolonged Over loading.
- iv. Bye-passing of protection system of Distribution Transformers.
- v. Faulty Termination (loose contacts etc)
- vi. Loose contacts at earthing points of Distribution Transformers in long run.
- vii. Breaking of earthing contacts of Lighting Arrestor in long run.
- viii. Power Theft.
- ix. Prolonged Short Circuit.
- x. Lack of maintenance checks etc. (by maintenance staff of State Utility) .

Once the village is energized and handed over to the State Utility, the responsibility of operation, maintenance and proper upkeep including repair/replacement of Distribution Transformers vest with the respective DISCOM. Rural Electrification Corporation, the nodal agency for implementation of RGGVY scheme, does not maintain data regarding burning of transformer after the infrastructure created under erstwhile RGGVY are handed over to the Power Utility.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4352
TO BE ANSWERED ON 18.12.2014

LOSSES TO PRIVATE POWER COMPANIES

4352. SHRI P.K. BIJU:

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

- (a) the details of the accumulated losses of the power distribution companies of various States during each of the last three years including the current year, State-wise along with the reasons for such losses and the details of those power distribution companies which are earning profits;
- (b) whether the Rural Electrification Corporation and the Power Finance Corporation are not able to make financial provisions for the loss incurring power distribution companies of various States;
- (c) if so, the details thereof and the reasons therefor;
- (d) whether the Government after conducting a review of the working of the profit earning power distribution companies has issued any advisory to the loss incurring power distribution companies in other States to follow their model; and
- (e) if so, the details thereof along with the status of implementation of the same and other steps being taken by the Government to arrest the losses of various State power distribution companies?

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 Power Finance Corporation report on "Performance of State Power Utilities for the years 2010-11 to 2012-13" which has been submitted to Ministry of Power, based on the account details provided by the Utilities, a majority of the utilities selling directly to consumers have incurred losses during the period 2010-11 to 2012-13.

Based on the report, the aggregate profit/ losses incurred by all utilities selling directly to consumers during the period 2010-11 to 2012-13 are as follows:

	Rs. Crores.		
	2010-11	2011-12	2012-13
Profit/ (Loss) after tax on accrual basis	(49,577)	(72,629)	(69,108)
Profit/ (Loss) on subsidy received basis	(51,948)	(76,867)	(69,972)

Details of profitability for utilities selling directly to consumers are enclosed at **Annex-I**.

Broadly, the reasons for losses incurred by utilities are due to the following:

Low metering/billing/collection efficiency: The gap between Actual Cost of Supply (ACS) and Average Revenue Realization (ARR) is on account of supply of electricity to agricultural and to some other select categories of consumers, who are billed either on flat rate basis or at subsidized rates and also due to theft and pilferage of electricity. Similarly, revenue collection is not made effectively, especially from the Government Departments, agricultural and rural consumers etc. This results in heavy losses and requires metering of every consumer with efficient meters, computerized billing and efficient revenue collection mechanism.

Theft, pilferage of electricity and tampering of meters: Electricity is stolen and pilfered through bypassing and tampering of electricity meters and by direct hooking of the LT lines. Majority of commercial losses are due to this reason.

Low accountability of employees: Low accountability of employees results in poor upkeep of equipment, poor metering, poor serving of bills and poor revenue realization. Fixing up of responsibility and making the employees accountable for losses and failures of network are the essential measures to reduce losses on this account.

Absence of Energy Accounting and Auditing: In the absence of effective energy accounting and auditing, utilities can never know the causes and locations of the technical or commercial loss. Effective energy audit with use of Information Technology (IT) is essential for effective action against theft and avoidable technical losses.

(b) & (c) : Rural Electrification Corporation and Power Finance Corporation provide financial lending to power Discoms as per their approved policy and procedures.

(d) & (e) : The measures taken by the Government to improve distribution of electricity and reduce the losses of SEBs/power distribution companies of the country are given at **Annex-II**.

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 4352 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

Profitability for Utilities Selling Directly to Consumers

Region	State	Utility	2010-11		2011-12		2012-13	
			Profit after tax	Profit on subsidy received basis	Profit after tax	Profit on subsidy received basis	Profit after tax	Profit on subsidy received basis
Eastern	Bihar	BSEB	(1,332)	(1,332)	(2,662)	(2,662)	(1,088)	(1,088)
		NBPDCL		0		0	(56)	(56)
		SBPDCL		0		0	(84)	(84)
	Bihar Total		(1,332)	(1,332)	(2,662)	(2,662)	(1,227)	(1,227)
	Jharkhand	JSEB	(723)	(723)	(3,211)	(3,211)	(875)	(875)
	Jharkhand Total		(723)	(723)	(3,211)	(3,211)	(875)	(875)
	Sikkim	Sikkim PD	(23)	(23)	(17)	(17)	39	39
	Sikkim Total		(23)	(23)	(17)	(17)	39	39
	West Bengal	WBSEDCL	95	95	73	73	82	82
	West Bengal Total		95	95	73	73	82	82
	Odisha	NESCO	(72)	(72)	(92)	(92)	(77)	(77)
		SESCO	(19)	(19)	(22)	(22)	(34)	(34)
		WESCO	(38)	(38)	(52)	(52)	(132)	(132)
		CESU	(87)	(87)	(257)	(257)	(316)	(316)
	Odisha Total		(215)	(215)	(423)	(423)	(559)	(559)
Eastern Total			(2,198)	(2,198)	(6,240)	(6,240)	(2,540)	(2,540)
North Eastern	Arunachal Pradesh	Arunachal PD	(182)	(182)	(274)	(274)	(255)	(255)
	Arunachal Pradesh Total		(182)	(182)	(274)	(274)	(255)	(255)
	Assam	APDCL	(486)	(486)	(408)	(558)	(418)	(568)
	Assam Total		(486)	(486)	(408)	(558)	(418)	(568)
	Manipur	Manipur PD	(204)	(204)	(307)	(307)	(315)	(315)
	Manipur Total		(204)	(204)	(307)	(307)	(315)	(315)
	Meghalaya	MeECL	(91)	(91)	(195)	(195)		0
		MePDCL		0		0	(63)	(63)
	Meghalaya Total		(91)	(91)	(195)	(195)	(63)	(63)
	Mizoram	Mizoram PD	(158)	(158)	(126)	(126)	(201)	(201)
	Mizoram Total		(158)	(158)	(126)	(126)	(201)	(201)
	Nagaland	Nagaland PD	(179)	(179)	(214)	(214)	(212)	(212)
	Nagaland Total		(179)	(179)	(214)	(214)	(212)	(212)
	Tripura	TSECL	(126)	(130)	(157)	(157)	(166)	(166)
	Tripura Total		(126)	(130)	(157)	(157)	(166)	(166)
North Eastern Total			(1,427)	(1,431)	(1,681)	(1,831)	(1,630)	(1,780)
Northern	Delhi	BSES Rajdhani	388	388	121	121	21	21
		BSES Yamuna	155	155	21	21	25	25
		TPDDL	258	258	339	339	310	310
	Delhi Total		801	801	481	481	356	356
	Haryana	DHBVNL	(792)	(955)	(4,599)	(4,599)	(1,352)	(1,352)
		UHBVNL	(129)	(129)	(8,604)	(8,604)	(2,297)	(2,297)
	Haryana Total		(921)	(1,084)	(13,203)	(13,203)	(3,649)	(3,649)
	Himachal Pradesh	HPSEB	(122)	(122)		0		0
		HPSEB Ltd.	(380)	(380)	(513)	(513)	(542)	(542)
	Himachal Pradesh Total		(502)	(502)	(513)	(513)	(542)	(542)
	Jammu & Kashmir	J&K PDD	(2,167)	(2,167)	(3,037)	(3,037)	(3,129)	(3,129)
	Jammu & Kashmir Total		(2,167)	(2,167)	(3,037)	(3,037)	(3,129)	(3,129)

	Punjab	PSPCL	(1,640)	(1,640)	(537)	(459)	296	51
	Punjab Total		(1,640)	(1,640)	(537)	(459)	296	51
	Rajasthan	AVVNL	(6,907)	(6,907)	(7,596)	(7,596)	(3,905)	(3,905)
		JDVVNL	(6,827)	(6,827)	(6,179)	(6,179)	(4,285)	(4,285)
		JVVNL	(7,636)	(7,636)	(5,797)	(5,797)	(4,161)	(4,161)
	Rajasthan Total		(21,370)	(21,370)	(19,572)	(19,572)	(12,351)	(12,351)
	Uttar Pradesh	DVVN	(1,322)	(1,322)	(2,840)	(2,840)	(3,364)	(3,364)
		KESCO	(182)	(182)	(384)	(384)	(545)	(545)
		MVVN	(742)	(742)	(1,765)	(1,765)	(2,033)	(2,033)
		Pash VVN	(453)	(453)	(1,992)	(1,992)	(1,303)	(1,303)
		Poorv VVN	(1,268)	(1,268)	(2,244)	(2,244)	(2,533)	(2,533)
	Uttar Pradesh Total		(3,966)	(3,966)	(9,224)	(9,224)	(9,778)	(9,778)
	Uttarakhand	Ut PCL	(204)	(204)	(55)	(55)	(13)	(13)
	Uttarakhand Total		(204)	(204)	(55)	(55)	(13)	(13)
Northern Total			(29,969)	(30,132)	(45,660)	(45,582)	(28,811)	(29,056)
Southern	Andhra Pradesh	APCPDCL	3	(778)	4	(1,476)	(7,718)	(7,718)
		APEPDCL	13	(572)	25	(963)	(1,681)	(1,681)
		APNPDCL	7	(409)	3	(874)	(3,436)	(3,445)
		APSPDCL	3	(418)	6	(710)	(4,673)	(4,678)
	Andhra Pradesh Total		26	(2,178)	38	(4,022)	(17,508)	(17,522)
	Karnataka	BESCOM	0	0	118	107	(433)	(433)
		CHESCOM	11	11	(123)	(269)	(270)	(337)
		GESCOM	61	61	(5)	34	(189)	(189)
		HESCOM	(65)	(65)	40	40	41	41
		MESCOM	2	2	6	6	13	13
	Karnataka Total		10	10	36	(82)	(838)	(905)
	Kerala	KSEB	241	241	241	241	241	241
	Kerala Total		241	241	241	241	241	241
	Puducherry	Puducherry PD	(134)	(134)	(164)	(164)	(308)	(308)
	Puducherry Total		(134)	(134)	(164)	(164)	(308)	(308)
	Tamil Nadu	TNEB	(6,273)	(6,273)		0		0
		TANGEDCO	(5,634)	(5,634)	(13,321)	(13,308)	(11,679)	(12,064)
	Tamil Nadu Total		(11,907)	(11,907)	(13,321)	(13,308)	(11,679)	(12,064)
Southern Total			(11,764)	(13,967)	(13,171)	(17,337)	(30,092)	(30,559)
Western	Chhattisgarh	CSPDCL	(581)	(581)	(2,012)	(2,012)	(498)	(498)
	Chhattisgarh Total		(581)	(581)	(2,012)	(2,012)	(498)	(498)
	Goa	Goa PD	(79)	(79)	(271)	(271)	(285)	(285)
	Goa Total		(79)	(79)	(271)	(271)	(285)	(285)
	Gujarat	DGVCL	63	63	76	76	25	25
		MGVCL	25	25	36	36	21	21
		PGVCL	3	3	9	9	11	11
		UGVCL	13	13	12	12	14	14
	Gujarat Total		103	103	134	134	71	71
	Madhya Pradesh	MP Madhya Kshetra VVCL		(605)	(1,129)	(1,129)	(1,593)	(1,595)
		MP Paschim Kshetra VVCL		(578)	(624)	(624)	(1,425)	(1,425)
		MP Purv Kshetra VVCL	(974)	(974)	(1,167)	(1,167)	(1,432)	(1,432)
	Madhya Pradesh Total		(2,157)	(2,157)	(2,920)	(2,920)	(4,450)	(4,452)
	Maharashtra	MSEDCL	(1,505)	(1,505)	(808)	(808)	(871)	(871)
	Maharashtra Total		(1,505)	(1,505)	(808)	(808)	(871)	(871)
Western Total			(4,219)	(4,219)	(5,877)	(5,877)	(6,034)	(6,036)
Grand Total			(49,577)	(51,948)	(72,629)	(76,867)	(69,108)	(69,972)

ANNEX REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 4352 TO BE ANSWERED IN THE LOK SABHA ON 18.12.2014.

The measures taken by the Government to improve distribution and reduce the losses of SEBs/power distribution companies of the country

Restructured-Accelerated Power Development and Reforms Programme (R-APDRP):

To reduce the AT&C losses in the country and to improve the power distribution sector of state utilities, Government of India has launched the Restructured-Accelerated Power Development and Reforms Programme (R-APDRP) during 11th Plan period. The focus of R-APDRP is on actual demonstrable performance by utilities in terms of sustained AT&C loss reduction in the project areas. Projects under the scheme are taken up in two parts in towns having population more than 30,000 (10,000 for special category States) as per census 2001. Part-A of the scheme is for establishing IT enabled system for energy accounting / auditing and Supervisory Control and Data Acquisition (SCADA) for big cities (population: 4 lacs and Annual Energy Input: 350MU) whereas Part-B is for up-gradation, augmentation & strengthening of electrical infrastructure in project towns.

Further, Power Finance Corporation, designated as nodal agency for operationalization of MoP, GoI's Restructured Accelerated Power Development & Reforms Programme(R-APDRP), has been providing timely funds under the scheme to various power distribution companies. No project under the scheme has reportedly been delayed on account of GoI funding constraints. Funds under R-APDRP are provided to power distribution companies under Part-A(IT), Part-A(SCADA) & Part-B.

Rating of Utilities

In order to enable a unified approach by Financial Institutions (FIs)/ Banks for funding State Distribution Utilities, Ministry of Power has developed an integrated rating methodology for State Distribution Utilities. The overall objective of the integrated rating methodology is to devise a mechanism for incentivizing/ disincentivising the distribution utilities so as to improve their operational and financial performance, enable regulatory compliance and influence respective State Govts. to fulfill commitments on subsidy, equity support including transition funding support to achieve self-sustaining operations.

Order of Appellate Tribunal for Electricity (APTEL)

Ministry of Power has requested "Appellate Tribunal for Electricity" to issue directions under section 121 of the Electricity Act to the State Regulatory Authorities to revise the tariff appropriately (suo-motto, if required), in the interest of improving the financial health and long term viability of electricity sector in general and distribution utilities in particular.

The Appellate Tribunal for Electricity(APTEL) in its order dated 11th November, 2011 has issued directions to the State Commissions with a view to improve the financial health of SEBs/ Discoms and ultimately help to deal with the mounting arrears of pending dues of the distribution utilities, which inter alia include automatic fuel & power purchase adjustment cost, suo-motto determination of tariff, if petition is not filed by utility, annual truing up of accounts and no resource gap to be left uncovered by SERCs. The regulatory assets only in extraordinary circumstances and liquidated in maximum 3 years.

Model Tariff Guidelines

Forum of State Regulators and Central Electricity Regulatory Commission (CERC) have resolved to implement Model Tariff Guidelines, which address issue of rationalization of tariff. FOR (Forum of Regulators) has circulated Model Tariff Guidelines to SERCs, for their adoptions. SERCs to adopt these tariff guidelines and make regulation. Adoption of Model Tariff Guidelines is a precondition for disbursement of loan by Power Finance Corporation and Rural Electrification Corporation to utilities.

Financial Restructuring of State Distribution Companies

A scheme for Financial restructuring of State Owned Discoms has been notified by the Government of India to enable the turnaround of the State Discoms and ensure their long term viability. The scheme contains measures to be taken by the State Discoms and State Government for achieving financial turnaround by restructuring their debt with support through a Transitional Finance Mechanism by Central Government.

National Electricity Fund (NEF)

Government of India launched the National Electricity Fund (Interest Subsidy Scheme) in July 2012 to provide interest subsidy on loans raised by both public and private Distribution Companies (DISCOMS), for capital works sanctioned by financial institutions to improve the infrastructure in distribution sector during the financial year 2012-13 and 2013-14. The preconditions for eligibility are linked to reform measures taken by the States and the amount of interest subsidy is linked to the progress achieved in reforms linked parameters.

Integrated Power Development Scheme (IPDS):

The Government has approved the Scheme of "Integrated Power Development Scheme" (IPDS) with the objectives of:

- (i) Strengthening of sub-transmission and distribution network in the urban areas;
- (ii) Metering of distribution transformers / feeders / consumers in the urban areas.
- (iii) IT enablement of distribution sector and strengthening of distribution network as per CCEA approval dated 21.06.2013 for completion of targets laid down under Restructured Accelerated Power Development and Reforms Programme (RAPDRP) for 12th and 13th Plans by carrying forward the approved outlay for RAPDRP to IPDS.

Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY):

The Government has approved the Scheme of "Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)" with components:

- (i) To separate agriculture and non agriculture feeders facilitating judicious rostering of supply to agricultural and non-agricultural consumers in rural areas; and
- (ii) Strengthening and augmentation of sub transmission and distribution infrastructure in rural areas, including metering of distribution transformers/feeders/consumers.

The ongoing scheme of RGGVY in 12th and 13th Plans is subsumed in DDUGJY as a distinct component for rural electrification for which Government has already approved to carry forward the balance amount of RGGVY to DDUGJY

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4362
TO BE ANSWERED ON 18.12.2014

MONITORING OF PERFORMANCE OF REGULATORS IN POWER SECTOR

4362. SHRI B. SRIRAMULU:

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

- (a) whether the Government has formulated any Committee at the Central and State levels to monitor performance of regulators in power sector from time to time;
- (b) if so, the details thereof; and
- (c) the performance of the said regulators during the last three years and the current year in each State/UT of the country?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : No Madam, however, a proposal for amendment in the Electricity Act, 2003 including, inter-alia, provisions pertaining to performance oversight over the Appropriate Commissions has been approved by the Union Cabinet on 10.12.2014.

(c) : As per the existing provisions of the Act, the Annual Report, Regulations and the Statement of Accounts duly audited by the Comptroller & Auditor General of India of Central Electricity Regulatory Authority of India are tabled in the Parliament. Further, the above Reports/Regulations of State Commissions are to be tabled in the respective State Legislatures. The performances of Regulatory Commissions are also subject matter of debates, questions of Parliament and its Committees.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4368
TO BE ANSWERED ON 18.12.2014

LINKING OF HYDRO POWER PROJECTS WITH GANGA PLAN

4368. SHRI R. GOPALAKRISHNAN:

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

(a) whether there is any proposal under consideration for linking hydro power projects with Ganga Rejuvenation Plan; and

(b) 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. The National Ganga River Basin Authority (NGRBA) is the apex body for Ganga rejuvenation facilitating a collaborative mechanism among Ministries as well as States. The NGRBA, having the Minister of Power as one of the Members, has been mandated for determination and maintenance of minimum ecological flows in the river when developing river projects including hydroelectric projects.
