GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.545
ANSWERED ON 05.04.2018

CAPACITY ADDITION BY NTPC

*545. SHRIMATI K. MARAGATHAM:

Will the Minister of POWER
be pleased to state:

(a) whether it is true that NTPC is currently building an additional capacity of over 20,000 MW at multiple locations in the country; and

(b) if so, the details thereof?

A N S W E R

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

(SHRI R. K. SINGH)

(a) & (b) : A Statement is laid on the Table of the House.

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STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) & (b) OF STARRED QUESTION NO.545 ANSWERED IN THE LOK SABHA ON 05.04.2018 REGARDING CAPACITY ADDITION BY NTPC.

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(a) & (b) : 19,751 MW capacity is under construction by NTPC Ltd. including its Joint Ventures and its Subsidiaries. Details are given in Annexure.

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ANNEXURE

ANNEXURE REFERRED TO IN PARTS (a) & (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 545 ANSWERED IN THE LOK SABHA ON 05.04.2018 REGARDING CAPACITY ADDITION BY NTPC.

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NTPC Projects Under Construction in India (as on 31.03.2018)

Sl. No.	State	Project	Fuel Type	Capacity (MW)
NTPC owned Projects				
1.	Assam	Bongaigaon	Coal	250
2.	Bihar	Barh-I	Coal	1980
3.	Chhattisgarh	Lara-I	Coal	800
4.	Jharkhand	North Karanpura	Coal	1980
5.	Madhya Pradesh	Khargone	Coal	1320
6.	Madhya Pradesh	Gadarwara-I	Coal	1600
7.	Maharashtra	Solapur	Coal	660
8.	Odisha	Darlipalli-I	Coal	1600
9.	Uttar Pradesh	Tanda-II	Coal	1320
10.	Uttarakhand	Tapovan Vishnugad	Hydro	520
11.	Uttarakhand	LataTapovan	Hydro	171
12.	West Bengal	Rammam-III	Hydro	120
13.	Telangana	Telangana	Coal	1600
Subsidiary/Joint Venture Projects				
14.	Jharkhand	Patratu, PVUNL	Coal	2400
15.	Bihar	Nabinagar, BRBCL	Coal	500
16.	Bihar	Nabinagar, NPGCPL	Coal	1980
17.	Uttar Pradesh	Meja, MUNPL	Coal	660
18.	Odisha	Rourkela PP-II	Coal	250
19.	West Bengal	Durgapur Power Project III	Coal	40
Total				19,751 MW

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.548
ANSWERED ON 05.04.2018

USE OF DIESEL GENSETS FOR POWER GENERATION

*548. DR. HEENA VIJAYKUMAR GAVIT:
SHRIMATI SUPRIYA SULE:

Will the Minister of POWER
be pleased to state:

(a) whether huge diesel gensets are used by the Industrial units to generate the power required by them;

(b) if so, the details thereof and the quantum of such power used by heavy, medium and small industries during the last three years and the current year, State-wise;

(c) whether this has resulted in wastage or more usage of diesel for various purposes and if so, the loss incurred due to such usage during the above period;

(d) whether the use of diesel genset is increasing the input cost of products and if so, the details thereof along with the increase in input cost in terms of percentage; and

(e) the corrective measures being taken by the Government to increase the supply of power along with the target year fixed for electricity to all?

A N S W E R

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

(SHRI R. K. SINGH)

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

****

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 548 ANSWERED IN THE LOK SABHA ON 05.04.2018 REGARDING USE OF DIESEL GENSETS FOR POWER GENERATION.

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(a) to (d) : The State-wise quantum of power used by Industries from diesel gensets during the last three years are given at Annex. The electricity consumption by industries from diesel gensets have reduced from 8868 Million Units (MUs) (0.8% of total generation) during 2014-15 to 8315 MUs (0.67% of total generation) during 2016-17. This shows that the increase in electricity demand of industries during last three years have been met from National electricity grids and dependence on diesel is reducing.

In general, use of diesel for power generation results in increase in input cost of power in the industry.

At present, there is sufficient power available in the National Electricity grid. Discoms can buy more power to give 24x7 reliable power supply to the industries. Even industries can also buy power in open Access.

(e) : To increase the supply of power and to meet the future power requirement, generation capacity from conventional sources of around 58,384 MW is under construction. Government of India have also set a target of 175 GW capacity to be achieved from renewable energy sources by the year 2022.

Government has also requested all States to ensure 24x7 power for all consumers from the year 2019.

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ANNEX REFERRED TO IN PARTS (a) TO (d) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 548 ANSWERED IN THE LOK SABHA ON 05.04.2018 REGARDING USE OF DIESEL GENSETS FOR POWER GENERATION.

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STATE-WISE ELECTRICITY CONSUMPTION BY INDUSTRIES HAVING CAPTIVE POWER PLANTS BASED ON DIESEL WITH DEMAND OF 1 MW & ABOVE

Figures in (Gwh)

State/Uts.	2014-15	2015-16	2016-17
Chandigarh	1.68	1.22	2.18
Delhi	1.33	1.54	2.17
Haryana	362.86	318.69	382.84
Himachal Pradesh	95.95	91.52	42.54
Jammu & Kashmir	3.50	3.50	2.25
Punjab	335.04	310.19	369.45
Rajasthan	558.46	575.73	677.61
Uttar Pradesh	744.01	561.18	536.75
Uttarakhand	206.26	227.18	169.67
Sub-Total(NR)	2309.09	2090.75	2185.46
Chhattisgarh	3.70	136.65	522.36
Gujarat	1454.53	1587.91	1562.40
Madhya Pradesh	129.92	205.01	251.79
Maharashtra	776.38	987.60	1528.78
Daman & Diu	0.80	0.80	1.92
D & N Haveli	2.28	2.28	2.65
Goa	70.91	67.18	94.75
Sub-Total(WR)	2438.52	2987.44	3964.65
Andhra Pradesh	67.40	74.31	59.08
Telangana	134.95	98.79	104.13
Karnataka	1206.94	1344.46	843.57
Kerala	155.71	21.18	7.78
Tamil Nadu	2028.20	541.71	540.68
Puducherry	21.11	8.45	9.24
Lakshadweep	0.00	0.00	0.00
Sub-Total(SR)	3614.31	2088.90	1564.48
Bihar	1.25	1.19	1.23
Jharkhand	6.20	9.26	5.80
Odisha	456.12	476.56	463.45
West Bengal	17.37	8.65	106.96
Sikkim	0.00	0.00	0.00
Andaman & Nicobar	0.00	0.00	0.00
Sub-Total(ER)	480.94	495.67	577.44
Arunachal Pradesh	0.00	0.00	0.00
Assam	5.97	5.73	5.75
Manipur	0.00	0.00	0.00
Meghalaya	18.92	19.39	17.59
Mizoram	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00
Tripura	0.00	0.00	0.00
Sub-Total(NER)	24.90	25.12	23.34
Total (All India)	8867.76	7687.87	8315.36

* Provisional

* Data in respect of electricity generation from captive power plants is furnished annually by industries and data for the current year 2017-18 would be furnished by industries after 31st March, 2018.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.551
ANSWERED ON 05.04.2018

POWER SUPPLY TO DOMESTIC CONSUMERS

†*551. SHRI PANKAJ CHAUDHARY:

Will the Minister of POWER
be pleased to state:

(a) whether the Government has taken any steps to ensure better power supply to domestic consumers;

(b) if so, the details thereof;

(c) whether the Government is aware of the problems being faced by the people such as power cuts, irregularities in electricity bills and difficulties in getting new power connections and if so, the details thereof; and

(d) whether the Government is taking any effective steps to address the said problems and if so, the details thereof?

A N S W E R

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

(SHRI R. K. SINGH)

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

****

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO.551 ANSWERED IN THE LOK SABHA ON 05.04.2018 REGARDING POWER SUPPLY TO DOMESTIC CONSUMERS.

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(a) & (b) : Electricity is in the concurrent list. Government of India in conjunction with the State Governments has taken several steps to ensure reliable electricity supply. Power plants have been established in the Central Sector through Central Public Sector Undertakings (CPSUs), and power is allocated to the states from them. As on 28.02.2018, power allocated to various States/UTs from Central Generating Stations is 82,214 MW. In addition, the State Governments have set up their own Generating Stations.

Further, to ensure better power supply to consumers, Government of India is assisting States through schemes like Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS) and Pradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) for strengthening of sub-transmission and distribution networks, electrification of villages and providing access of electricity to all unelectrified households.

(c) & (d) : Distribution of electricity is a licensed activity. Distribution licenses are issued by respective State Electricity Regulatory Commission (SERC). SERC's have issued Standard of Performance (SOP) and supply code to be followed by the distribution company to address the various problems being faced by consumers.

As per Section 57 of Electricity Act, 2003, Consumer Grievances Redressal Forum and Ombudsman are in place in most of the States to protect the interest of consumers.

Further, recognizing the requirement and importance of addressing consumer grievances, Govt. of India has provided financial assistance to Distribution Utilities under Restructured Accelerated Power Development Reforms Programme (RAPDRP), now subsumed under IPDS to set up dedicated consumers care centers, also accessible at short code telephone number 1912. So far, 47 States owned utilities and 10 Private Utilities are providing services on this short code telephone number.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.559
ANSWERED ON 05.04.2018

POWER GRID CONNECTIVITY

*559. SHRI K.N. RAMACHANDRAN:
SHRI PR. SENTHIL NATHAN:

Will the Minister of POWER
be pleased to state:

(a) whether the Power Grid connectivity between the Southern Grid and the Power Grids of other regions are inadequate to meet the requirements of power transmission between Tamil Nadu and other States;

(b) if so, the details thereof;

(c) the steps taken by the Government to enhance the power Grid connectivity between Tamil Nadu and other States; and

(d) the steps taken by the Government to expedite the establishment of Green Corridor Grid in the country?

A N S W E R

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

(SHRI R. K. SINGH)

(a) 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.559 ANSWERED IN THE LOK SABHA ON 05.04.2018 REGARDING POWER GRID CONNECTIVITY.

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(a) & (b) : The connectivity between the Southern Grid and Power Grids of other regions are adequate to meet the requirements of power transmission between Tamil Nadu and other States.

(c) : The Southern Region (SR) is connected with the North-East-West Region (NEWR) through various inter-regional AC links at 220kV, 400KV, 765kV level and HVDC link. With the commissioning of new transmission lines, the grid connectivity upstream and downstream of the main NEWR-SR corridor has further strengthened. The detail of inter-regional links between SR and NEWR is at Annex.

No congestion has been reported in Day Ahead Market (Power Exchanges) since September, 2017.

(d) : Green Energy Corridor (GEC) has been planned to facilitate integration of large scale renewable generation capacity in eight Renewable Energy resource rich States including Tamil Nadu. It includes strengthening of intra-State and inter-State transmission systems and establishment of Renewable Energy Management Centres (REMC).

The inter-State transmission system and REMCs are being implemented by POWERGRID. The project includes about approx. 3200 ckms line and Six Substations of total 18,000 MVA to be completed by May 2019. Part of the transmission system is commissioned and balance transmission scheme is under various stages of implementation. The intra-State transmission system is being implemented by the respective State Transmission Utilities (STUs).

The progress of the various schemes under GEC is regularly monitored by Central Electricity Authority/Ministry of Power.

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ANNEX

ANNEX REFERRED TO IN PART (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 559 ANSWERED IN THE LOK SABHA ON 05.04.2018 REGARDING POWER GRID CONNECTIVITY.

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INTER-REGIONAL TRANSMISSION LINKS AND CAPACITY (MW)		
Sl. No.		Present Capacity (MW)
1.	Balimela-Upper Sileru 220kV S/c	130
2.	Gazuwaka HVDC back-to-back	1000
3.	Talcher-Kolar HVDC bipole	2500
4.	Angul – Srikakulum 765kV D/c	4200
5.	Chandrapur HVDC back-to-back	1000
6.	Kolhapur-Belgaum 220kV D/c	260
7.	Ponda – Nagajhari 220kV D/c	260
8.	Raichur - Solapur 765kV S/c line (PG)	2100
9.	Raichur - Solapur 765kV S/c line (Pvt. Sector)	2100
10.	Narendra - Kolhapur 765kV D/c (charged at 400kV)	2200
11.	Wardha - Nizamabad 765kV D/c line	4200
	TOTAL	19,950

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6226
ANSWERED ON 05.04.2018

100% ELECTRICITY TO PEOPLE

†6226. SHRI RAKESH SINGH:

Will the Minister of POWER
be pleased to state:

(a) whether an action plan has been formulated for providing cent per cent electricity facility in the country;

(b) if so, the details thereof;

(c) whether the Government has chalked out any plan to include the public and private sector institutions to augment the capacity of power generation units and ensure the distribution of power generated by them; and

(d) if so, the details thereof?

A N S W E R

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

(SHRI R. K. SINGH)

(a) & (b) : Government of India has launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – Saubhagya with the objective to achieve universal household electrification by providing last mile connectivity and electricity connections to all households in rural and all poor households in urban areas. The scheme aims to electrify all the remaining un-electrified households across the country by 31st March, 2019.

(c) & (d) : There is adequate generation capacity available to meet the projected demand in India by 2022. Further, the Generation of electricity is delicensed activity under Electricity Act 2003, and the decision to install new generation capacity is to be taken by public and private sector investors, considering demand and generation availability projections in the country.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6251
ANSWERED ON 05.04.2018

TIME AND COST OVERRUN OF POWER PROJECTS

6251. SHRI GODSE HEMANT TUKARAM:

Will the Minister of POWER
be pleased to state:

(a) whether a number of power projects in public and private sectors have incurred time and cost overrun;

(b) if so, the details thereof and the reasons therefor along with the funds utilised for construction, sector-wise;

(c) whether the Government has received any representation from the Association of Power Producers for expeditious clearance of the pending projects in private sector;

(d) if so, the details thereof and the steps being taken/proposed to be taken to accord clearances to these projects expeditiously; and

(e) the remedial measures taken by the Government for expeditious completion of all power projects within a fixed time frame?

A N S W E R

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

(SHRI R. K. SINGH)

(a) & (b) : The details of Time and Cost overrun in respect of under construction Thermal and Hydro (Above 25 MW) Power Projects are given at Annex-I and Annex-II respectively.

(c) to (e) : A representation dated 25th June, 2014 was received from Association of Power Producers regarding “Enhancing ease of Doing Business” – proposed comprehensive review of legislation governing integrated electricity generation projects.

.....2.

As per the Electricity Act, 2003, any generating company may establish, operate and maintain any generating station without obtaining a licence under the Act, if it complies with the technical standards relating to connectivity. However, any generating company intending to set up a hydro generating station is required to seek concurrence from the Central Electricity Authority (CEA).

Further, the Government has taken the following steps to accord clearances of power projects expeditiously:

(i) Project Monitoring Group (PMG) under Prime Minister's Office (PMO) has been set up to track stalled investment projects, both in the public and private sectors and to remove implementation bottlenecks in these projects on a fast-track basis.

(ii) A high level Group on Infrastructure under the chairmanship of Union Minister for Road Transport and Highways, Shipping, Water Resources, River Development and Ganga Rejuvenation has been set up, inter-alia, to review issues pertaining to various clearances required by infrastructure projects, including power projects.

(iii) The Tariff Policy has been amended in January, 2016, which, inter-alia, removes market uncertainty by allowing pass-through for impact of any changes in domestic duties, levies, taxes etc. in competitively bid projects and also brings clarity on tariff setting.

(iv) Government of India has launched a new policy for allocation of future coal linkages in a transparent manner for power sector, namely the Scheme for Harnessing and Allocation Koyala (Coal) Transparently in India (SHAKTI).

(v) Regular interactions between the Ministries of Power and Environment, Forest & Climate Change for resolving issues pertaining to environment and forest clearance.

(vi) Regular reviews are also undertaken by Ministry of Power, Ministry of Heavy Industries and Cabinet Secretariat to identify the constraint areas and facilitate faster resolution of inter-ministerial and other outstanding issues.

(vii) Central Electricity Authority (CEA) monitors the progress of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers.

(viii) Issues are also raised in PRAGATI, for proactive governance and timely implementation, as and when required.

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 6251 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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Details of Time/Cost Overrun of Under Construction Thermal Power Projects in the country

Sl. No	State	Project Name / Implementing Agency	Unit No	Cap. (MW)	Original Commissioning Schedule	Anticipated Commissioning Schedule	Original Cost (Rs. in Crore)	Latest Cost (Rs. in Crore)	Cost Overrun (Rs. in Crore)	Time Overrun (Months)	Reason for Delay
CENTRAL SECTOR											
1	*Assam*	Bongaigaon TPP/ NTPC	U-3	250	Sep-11	Jun-18	4375.35	6749.18	54.25%	81	Frequent bandhs, Heavy monsoon and slow civil works. Delay in supply of material by BHEL. Intemittent suspension of supplies of aggregates by local vendors. Work came to halt due to violence and mass exodus of labour from site in 2011-12. Civil works got affected due to poor performance by civil contractors resulting in to their contract cancellation. Balance civil and structural works rewarded to NBCC on 29.09.14.Civil works, readiness of raw water system, identification & supply of cannibalized materials for Unit-3 by BHEL.
2	*Bihar*	Barh STPP-I /NTPC	U-1	660	May-17	Oct-20	8693	15095.67	73.65%	41	Delay due to contractual dispute of NTPC with Power machine & Technopromexport, Russia. *Orig. Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constrant. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine, tube failures in superheater and Reheat area, Readiness of Railway line (Hazirabagh-Kodera-Tilaiya-Rajgi-Bkahktiarpur (250 Km))
			U-2	660	Nov-17	Apr-21				41	
			U-3	660	May-18	Nov-21				42	

3	*Bihar*	Nabi Nagar TPP / JV of NTPC & Rlys	U-3	250	Aug-13	Jun-18	5352.51	7998	49.43%	58	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. Delay in Supply of equipment by BHEL. Agitation by villagers. Patches of land could not be acquired because of unwillingness of people to accept compensation. Financial crunch faced by CHP vendor (Techpro).
			U-4	250	Nov-13	Oct-18				59	
4	*Bihar*	New Nabi Nagar TPP /JV of NTPC & BSPGCL	U-1	660	Jan-17	Aug-18	13624.02	15131.67	11.07%	19	Acquisition of balance land and relocation of homestead owners still living inside the project area.
			U-2	660	Jul-17	Oct-18				15	
			U-3	660	Jan-18	Dec-18				12	
5	*Chhattisgarh*	Lara STPP/NTPC	U-2	800	May-17	Jun-19	11846	11846	0.00%	25	Delayed due to power equipment supply, Delay in land acquisition, delay in radiness of boiler auxiliaries.
6	*Jharkhand*	North Karanpura STPP/ NTPC	U-1	660	Feb-18	Oct-19	14367	14367	0.00%	20	Delay in start of Civil works due to land acquisition issues. Delay in BHEL supplies related to boiler foundation. Delay in land handover by NTPC to BHEL due to change in main plant area location change in plot plan. Delay in award of ACC package by BHEL.
			U-2	660	Aug-18	Apr-20				20	
			U-3	660	Feb-19	Oct-20				20	
7	*Maharashtra*	Solapur STPP/ NTPC	U-2	660	Nov-16	Mar-19	9395.18	9395.18	0.00%	28	Delay in SG supply by BGR. Delay in Right of Use (RoU) for Raw water pipeline. Delay in readiness of civil fronts by M/s. IVRCL. Delay in steam generator Engineering & supply by BGR due to non-settlement of QSGM between BGR and Hitachi, Major damage in pressure parts
8	*MP*	Gadarwara STPP/ NTPC	U-1	800	Mar-17	Jul-18	11638.55	11638.55	0.00%	16	Work stopped due to agitation by villagers demanding additional compensation for already acquired land. Delay in balance land acquisition for railway line corridor, slow progress by civil agency (B&R). RoU for MuW pipeline laying.
			U-2	800	Sep-17	Jun-19				21	
9	*Odisha*	Darlipalli STPP/ NTPC	U-1	800	Feb-18	Dec-18	12532.44	12532.44	0.00%	10	Delayed due to balance Land acquisition for railway siding ,ROU issue for Makeup water line.
			U-2	800	Jun-18	Jun-19				12	
10	Telangana	Telangana STPP St- I / NTPC	U-1	800	Jan-20	Apr-20	10599	10599	0.00%	3	Change in Boiler design w.r.to new environmental norms. Delay in BHEL supply
			U-2	800	Jul-20	Oct-20				3	
11	*TN*	Neyveli New TPP/ NLC	U-1	500	Sep-17	Jul-18	5907.11	5907.11	0.00%	10	Delayed due to change in design of foundations(depth) of main plant area and finalisation of civil contractors. Availability of soft water is delayed due to non- completion of erection of HDPE pipes. Delay in Placement of order for outlet channel & structure of CW system. Slow progress of Civil works.
			U-2	500	Mar-18	Aug-18				5	
12	*UP*	Meja STPP/ JV of NTPC & UPRVUNL	U-2	660	Dec-16	Jan-19	10821	10821	0.00%	25	Delay in supply of boiler material by M/s BGR due to non-settlement of QSGM between BGR and Hitachi.. Slow progress of main plant civil works.

13	*UP*	Tanda TPP St II/ NTPC	U-1	660	Sep-18	Mar-19	9188.98	9188.98	0.00%	6	Balance Land acquisition in main plant & Ash dyke area. Poor mobilisation by civil agency, delay in engineering and supply.
			U-2	660	Mar-19	Sep-19				6	
STATE SECTOR											
1	*Assam*	Namrup CCGT / APGCL	ST	36.15	Jan-12	Nov-18	411	693.73	68.79%	82	Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in rearward of civil and Electrical Mechanical & Instrumentation agency.
2	*Karnataka*	Yelahanka CCPP BY KPCL	GT+ST	370	Mar-18	May-18	1571.18	1571.18	0.00%	2	Delayed due to heavy Rain
3	*Odisha*	Ib valley TPP / OPGCL	U-3	660	Sep-17	Aug-18	11965	11965	0.00%	11	Acquisition of land for railway siding and avilablity of startup power.
			U-4	660	Jan-18	Oct-18				9	
4	*Rajasthan*	Chhabra TPP Extn./RRVUNL	U-6	660	Jun-18	Aug-18	7920	9550	20.58%	2	Delay in civil works. Delays in work progress due to heavy rain. Delay in readiness of BoPs (Cooling tower, AHP, CHP etc.) by M/s Lanco Infratech due to financial crunch.
5	*Rajasthan*	Suratgarh SCTPP/ RRVUNL	U-7	660	Sep-16	Jul-18	7920	7920	0.00%	22	Slow progress of boiler erection.
			U-8	660	Dec-16	Jun-18				18	
6	*Telangana*	Kothagudem TPS St-VII/ TSGENCO	U-1	800	Nov-17	Jul-18	5548.44	5548.44	0.00%	8	Delay in readiness of BoPs
7	*Telangana*	Bhadradri TPP / TSGENCO	U-1	270	Mar-17	Jan-19	5044	7290.6	44.54%	22	Work held up due to NGT and Non avilablity of MoEF clearance.
			U-2	270	May-17	Feb-19				21	
			U-3	270	Jul-17	Mar-19				20	
			U-4	270	Sep-17	Apr-19				19	
8	*TN*	Ennore exp. SCTPP (Lanco) / TANGEDCO	U-1	660	Jan-18	Sep-18	5421.38	5421.38	0.00%	8	Delayed due to LANCO Insolvency problem.
9	*TN*	Ennore SCTPP / TANGEDCO	U-1	660	Jan-18	Sep-18	9800	9800	0.00%	8	Delayed due to excessive piling in power block area and slow progress of civil work.
			U-2	660	Mar-18	Mar-19				12	
10	*TN*	North Chennai TPP St-III TANGEDCO	U-1	800	Mar-19	Jul-19	6376	6376	0.00%	4	Slow progress due to civil work.
11	*UP*	Harduaganj TPS Exp-II /UPRVUNL	U-1	660	Jun-19	Nov-19	4826.49	4826.49	0.00%	5	Late receipt of MoEF and CC Clearance
12	*UP*	Jawaharpur STPP/ UPRVUNL	U-1	660	Sep-20	Nov-20	10556.27	10556.27	0.00%	2	Newly started
			U-2	660	Jan-21	Mar-21				2	
PRIVATE SECTOR											
1	*AP*	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd.	U-3	350	May-12	Jan-18	3120 (600MW)/ 5005 (700MW)			68	Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time.
			U-4	350	Aug-12	Jul-18				71	

2	*Chhattisgarh*	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd	U-4	600	Apr-13	Jul-18	16190	27080	67.26%	63	Delayed due to Financial Constraints
			U-5	600	Aug-13	Sep-18				61	
			U-6	600	Dec-13	Dec-18				60	
3	*Chhattisgarh*	Uchpinda TPP/ RKM Powergen. Pvt. Ltd.	U-4	360	Jul-13	Jul-18	6653.61	11784.51	77.11%	60	Delayed due to non availability of Consent To Operate(CTO).
4	*Maharashtra*	Shirpur TPP ,Shirpur Power Pvt. Ltd.	U-2	150	Apr-15	Jul-18	2413	2413	0.00%	39	Delay in start up Power, No PPA, No Coal linkage, Financial constraints.
5	*MP*	Mahan TPP / Essar Power MP Ltd.	U-2	600	Dec-11	Aug-18	7738	7738	0.00%	80	Very slow progress due to Non availability of coal block/Coal Linkage.
6	*TN*	Tuticorin TPP St-IV / SEPC	U-1	525	Sep-18	Mar-19	3514	3514	0.00%	6	Slow progress in BoP areas, Delay in award of interconnection and transmission facility.
7	*WB*	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd	U-3	150	May-16	Aug-18	2656	3307	24.51%	27	MoEF Moratorium for no construction activity in haldia and asansol industrial area in WB

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ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 6251 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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DETAILS OF UNDER CONSTRUCTION HYDRO ELECTRIC PROJECTS (ABOVE 25 MW)
HAVING TIME/COST OVERRUN

Sl. No	Project Name/(I.C.)/ Executing Agency	State	Unit No.	Capacity (MW)	Original Commis-sioning Sche -dule	Revised Commis-sioning Sche-dule	Anticip -ated Commis-sioning Sche -dule	Time over run (months)	Org. Cost (Rs. in Crores)	Rev. Cost (Rs. in Crores)	Latest/Ant. Cost (Rs. in Crores)	Cost over run (Rs. in Crores)	Reasons for time and cost overrun
	CENTRAL SECTOR												
1	Tapovan Vishnughad (4x130 = 520 MW) NTPC	Uttarakhand	1 2 3 4	130 130 130 130	2012-13 2012-13 2012-13 2012-13 (Mar'13)	2015-16 2015-16 2015-16 2015-16 (Mar'16)	2019-20 2019-20 2019-20 2019-20 (Mar'20)	84	2978.48 (11/06)	3846.30 (01/14)	3846.30 (01/14)	867.82	➢ Heavy water ingress due to bad geology in HRT and rock fall on TBM. TBM struck up thrice. ➢ Flash flood in June, 2013 & Aug'12 damaging coffer dam. ➢ Termination of civil contracts for Barrage and HRT.
2	Lata Tapovan (3x57 = 171 MW) NTPC	Uttarakhand	1 2 3	57 57 57	2017-18 2017-18 2017-18 (Aug'17)		2022-23 2022-23 2022-23 (subject to re-start of works (4 years)	67	1527.00 (07/12)		Under revision	N.A.	➢ Flash flood during June, 2013 in Uttarakhand. ➢ Local issues / non-start of works in Barrage area ➢ Hon'ble Supreme court ban on construction works since May-14..
3	Rammam-III (3x40= 120 MW)	West Bengal	1 2 3	40 40 40	2019-20 2019-20 2019-20 (Sep'19)		2020-21 2020-21 2020-21 (Mar,21)	18	1381.84 (10/14)		1381.84 (10/14)	Nil	➢ Delay in getting permission for tree felling from Govt. of West Bengal for Access road from Adit-1 to Adit-2.
4	Pare (2x55 = 110 MW) NEEPCO	Arunachal Pradesh	1 2	55 55	2012-13 2012-13 (Aug'12)		2017-18 2017-18 (Mar'18)	67	573.99 (06/07)		1337.76 (01/16)	763.77	➢ Law & Order problem. ➢ Poor geology. ➢ Poor approach roads. ➢ Flash flood during monsoons of year 2014,2015,2016 and 2017. Dam area inundated with water.
5	Kameng (4x150 = 600 MW) NEEPCO	Central	1 2 3 4	150 150 150 150	2009-10 2009-10 2009-10 2009-10 (Dec'09)		2017-18 2017-18 2017-18 2017-18 (Mar,18)	99	2496.90 (03/04)		6179.96 (03/15)	3683.06	➢ 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. ➢ Slow Progress of works.

6	Tehri PSS (4x250 = 1000 MW) THDC	Uttara khand	1 2 3 4	250 250 250 250	2010-11 2010-11 2010-11 2010-11 (July'10)	2015-16 2015-16 2015-16 2015-16 (Feb'16) RCE-I	2020-21 2020-21 2020-21 2020-21 (Dec'20)	125	1657.60 (Dec-05)	2978.86 (Apr'10)	3939.11	2281.51	➢ Approval of RCE as L-1 price bid was more than cost estimate. RCE approved in Nov-2011. ➢ Cash flow problem with contractor. ➢ Litigation by bidders. ➢ 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.
7	Parbati - II (4x200 = 800 MW) NHPC	Himachal Pradesh	1 2 3 4	200 200 200 200	2009-10 2009-10 2009-10 2009-10 (Sept'09)		2021-22 2021-22 2021-22 2021-22 (Dec,21)	147	3919.59 (12/01)		8398.75 (03/15)	4479.16	➢ 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 Apr-04, Jun-06 and Feb-07. ➢ Flash flood in 2004,2005,2010 and 2011. ➢ Jiwa Nallah works affected due to cavity treatment. ➢ Contractual issues. ➢ Poor geology in HRT.
8	Subansiri Lower (8x250 = 2000 MW) NHPC	Arunachal Pradesh/ Assam	1 2 3 4 5 6 7 8	250 250 250 250 250 250 250 250	2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 (Sep'10)		2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 (subject to re-start of works (4 years))	150	6285.33 (12/02)		18559.49 (04/17)	12274.16	➢ Delay in transfer of forest land. ➢ 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 in Assam against construction of Project. Work stopped since 16.12.2011. ➢ Issue of D/s impact studies. ➢ Case in NGT.
9	Vishnugad Pipalkoti (4x111 = 444 MW) THDC	Uttara khand	1 2 3 4	111 111 111 111	2013-14 2013-14 2013-14 2013-14 (Jun'13)		2020-21 2020-21 2020-21 2020-21 (Nov'20)	89	2491.58 (03/08)		3789.61 (05/17)	1298.03	➢ 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. ➢ Disruption of works by local people. ➢ Cash flow problem with contractor.

10	Kishanganga (3x110 = 330 MW) NHPC	Jammu & Kashmir	1 2 3	110 110 110	2014-15 2014-15 2014-15 (July'14)	2015-16 2015-16 2015-16 (Jan'16) RCE-I	2017-18 2017-18 2017-18 (Mar-18)	44	2238.67 (11/05)	3642.04 (09/07)	5882.01 (01/17)	3643.34	➢ Approval of RCE as L-1 price bid was more than cost estimate. RCE approved in Jan.-2009. ➢ Heavy Rainfall in March, 2011. ➢ Cavity in HRT – TBM portion. ➢ Poor geology in Access tunnel. ➢ Dam works affected due to arbitration proceedings at International Court of Arbitration. ➢ Local people demanding Employment in NHPC. ➢ R&R Issues. ➢ Completion of power evacuation arrangement (PGCIL) ➢ Stoppage of works in Power House area since 09.07.2016 due to disturbance in Kashmir velley. Works partially resumed in Jan 2017.
	STATE SECTOR												
11	Parnai 3x12.5= 37.5 MW JKSPDC	Jammu & Kashmir	1 2 3	12.5 12.5 12.5	2017-18 2017-18 2017-18 (Jan'18)		2019-20 2019-20 2019-20 (Mar,20)	26	640.41 (Completi on cost)		640.41 (Complet ion cost)	Nil	➢ Slow progress of works. ➢ Delay in Land acquisition.
12	Lower Kalnai 2x24= 48 MW JKSPDC	Jammu & Kashmir	1 2	24 24	2017-18 2017-18 (Sep'17)		2020-21 2020-21 (Mar,21)	42	576.87 (12/12) (Completi on cost)		576.87 (12/12) (Complet ion cost)	Nil	➢ Inadequate mobilization of man & machinery by Contractor. ➢ Delany in finalization of R&R Plan. ➢ Slow progress of works. ➢ Funds constraints with contractor. Contractor under CDR.
13	Uhl-III (3x33.33 = 100 MW) BVPCL	Himachal Pradesh	1 2 3	33.33 33.33 33.33	2006-07 2006-07 2006-07 (Mar'07)		2017-18 2017-18 2017-18 (Mar,18)	132	431.56 (09/02)		1281.52 (12/12)	849.96	➢ Delay in transfer of forest land. ➢ Delay in acquisition of private land ➢ Delay in transfer of quarry sites. ➢ Delay in award of works. ➢ Contract for construction of HRT rescinded twice i.e. during April, 2008 & July, 2010 due to slow progress and non-performance by the contractor. ➢ Poor geology in HRT.
14	Sawra Kuddu (3x37 =111MW) HPPCL,	Himachal Pradesh	1 2 3	37 37 37	2011-12 2011-12 2011-12 (Jan'12)		2019-20 2019-20 2019-20 (May,19)	88	558.53 (03/03)		1181.90 (06/09)	623.37	➢ Delay in MOEF clearance. ➢ Delay in award of Civil & E&M works. ➢ Poor geology in HRT. ➢ Slow progress of HRT Lining. ➢ Contractual issues. ➢ Contract for HRT package terminated on 9.1.14. Re-awarded in Nov,2014 to M/s. HCC.

15	Shongtom Karcham (3x150 = 450 MW) HPPCL 16.08.2012	Himachal Pradesh	1 2 3	150 150 150	2016-17 2016-17 2016-17 (Mar'17)		2021-22 2021-22 2021-22 (Jan,22)	58	2807.83 (06/11)		2807.83 (06/11)	Nil	➢ Shifting of Army Ammunition Depot. ➢ Local Issues.
16	Pulichintala (4x30 = 120 MW) TGENCO	State	1 2 3 4	30 30 30 30	2009-11 2009-11 2009-11 2009-11 (Jun'10)		2016-17 2017-18 2017-18 2018-19 (Aug,18)	Comm. 98	380.00 (2006-07)		563.49 (03/15)	183.49	➢ Delay in award of E&M works. ➢ Unprecedented floods in Oct.2009 & Sept.2011. ➢ Contractual issues. ➢ Slow progress of Power House works. ➢ Delay in Commission due to non-availability of water.
17	Pallivasal 2x30 = 60 MW KSEB	Kerala	1 2	30 30	2010-11 2010-11 (Mar'11)		2020-21 2020-21 (Dec,20)	117	222.00 (2004)		284.69 (2007)	62.69	➢ Slow progress of civil works. ➢ Delay in land acquisition. ➢ Change in alignment of Adit to HRT. ➢ Poor geology strata in HRT. ➢ Heavy Monsoon ➢ Works stopped by contractor since 28.1.15 due to contractual issues.
18	Thottiyar (1x30+1x10)= 40MW KSEB	Kerala	1 2	30 10	2012-13 2012-13 (Apr'12)		2020-21 2020-21 (subject to re-start of works(3 years))	107	136.79 (2007)		150.02 (2007)	13.23	➢ 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. ➢ Contractual issues. ➢ Financial crunch with contractor.
19	Shahpurkandi 3x33+3x33+1x8 =206 MW, Irrigation Deptt. &PSPCL	Punjab	1 2 3 4 5 6 7	33 33 33 33 33 33 8	2015-16 2015-16 2015-16 2015-16 2015-16 2015-16 2015-16		2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 (subject to re-start of works(4 years))	60 60	1835.50 (04/08) (Power Componen t)		1835.50 (04/08) (Power Compone nt)	Nil	➢ Works of Dam stopped since 29.08.2014 due to inter-state dispute between states of J&K & Punjab on sharing of waters of river Ravi and Tariff.
20	Koyna Left Bank PSS 2x40 = 80 MW WRD, Maha	Maha rashtra	1 2	40 40	2014-15 2014-15 (Oct'14)		2019-20 (subject to re-start of works (4 years))	65	245.02 (1999)		1494.94 (2014)	1249.92	➢ Slow progress of works. ➢ Fund constraints due to increase in project cost. RCE under approval.
21	Vyasi 2x60=120 MW, UJVNL	Uttara khand	1 2	60 60	2014-15 2014-15 (Dec'14)		2019-20 2019-20 (Mar,20)	63	936.23 (02/10)		936.23 (02/10)	Nil	➢ Delay in award of works. ➢ Local Issues.

22	Polavaram (12x80 = 960 MW) PPA	Andhra Pradesh	1 2 3 4 5 6 7 8 9 10 11 12	80 80 80 80 80 80 80 80 80 80 80 80	2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 (Mar'18)		2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2022-23 2022-23 2022-23 (Sep,22)	36 48 60 	4956.39 (2016-17 PL) (Power Component)		4956.39 (2016-17 PL) (Power Component)	Nil	➢ Slow progress of works ➢ Funds constraints ➢ E&M works yet to be awarded
	PRIVATE SECTOR												
23	Tangnu Romai-I (2x22 = 44 MW) TRPGPL	Himachal Pradesh	1 2	22 22	2014-15 2014-15 (Jun'14)		2019-20 2019-20 (subject to re-start of works (4 years))	69	255.00 (01/07)		562.97 (01/17)	307.97	➢ Slow progress of civil works. ➢ Poor geology. ➢ Difficult area. ➢ Weather conditions & accessibility. ➢ Financial constraints with the developer.
24	Sorang (2x50 = 100 MW), HSPPL	Himachal Pradesh	1 2	50 50	2011-12 2011-12 (Nov'11)		2019-20 2019-20 (subject to re-start of works(1 Year))	100	586.00 (04/2005)		Under revision	N.A.	➢ Poor geology. ➢ Poor weather conditions, difficult & poor accessibility. ➢ Penstock cracks / leakage during filling of Water conductor System in Nov '13. ➢ Rupture in surface penstock in Nov-15 during trial run. ➢ Funds constraints with developer.
25	Singoli Bhatwari (3x33 = 99 MW) L&T	Uttarakhand	1 2 3	33 33 33	2012-13 2012-13 2012-13 (Dec'12)		2018-19 2018-19 2018-19 (Mar,19)	 75	666.47 (2008)		1577	910.53	➢ Poor geology in HRT. ➢ Agitation by local people. ➢ Flash flood in June,2013.
26	Phata Byung (2x38 = 76 MW), LANCO	Uttarakhand	1 2	38 38	2012-13 2012-13 (Jun'12)		2019-20 2019-20 (subject to re-start of works(3 years))	93	520.00 (2013-14)		1225.53	705.53	➢ Flash flood in June,2013. ➢ Poor geology in HRT.

27	Maheshwar (10x40 = 400 MW) SMHPCL	Madhya Pradesh	1 2 3 4 5 6 7 8 9 10	40 40 40 40 40 40 40 40 40 40	2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 (Mar'02)		2019-20 (subject to re-start of works(1-½ years)	216	1569.27 (96-97)		8121.00 (2016-17)	6551.73	➢ R&R issues ➢ Cash flow problem with developer
28	Teesta Stage VI (4x125 = 500 MW) Lanco Energy Pvt. Ltd.	Sikkim	1 2 3 4	125 125 125 125	2012-13 2012-13 2012-13 2012-13 (Jul'12)		2021-22 2021-22 2021-22 2021-22 (subject to re-start of works(3 years))	116	3283.08 (2008)		7542.00 (12/16)	4258.92	➢ Poor geology. ➢ Land acquisition. ➢ Contractual issues ➢ Funds constraints with developer
29	Rangit-IV HE Project (3X40 = 120 MW) JPCL	Sikkim	1 2 3	40 40 40	2011-12 2011-12 2011-12 (Jan'12)		2020-21 2020-21 2020-21 (subject to re-start of works(3-½ year)	110	726.17 (2011-12)		1692.60 (06/16)	966.43	➢ Slow progress of HRT & Surge Shaft works due to poor geology. ➢ Works hampered due to earthquake in September, 2011. ➢ Financial constraints with developer
30	Bhasmey (2x25.5 =51 MW) Gati Infrastructure	Sikkim	1 2	25.5 25.5	2012-13 2012-13 (Jun'12)		2020-21 2020-21 (subject to re-start of works(3 years))	105	408.50 (2012-13)		690.30	281.80	➢ Forest clearance ➢ Financial constraints with developer
31	Rongnichu (2x48 =96 MW) Madhya Bharat Pvt. Ltd.	Sikkim	1 2	48 48	2014-15 2014-15 (Jul'14)		2019-20 2019-20 (Mar,20)	68	491.32		1187	695.68	➢ Land Acquisition ➢ Poor geology.
32	Ratle (4x205+1x30) = 850 MW Ratle HEP Pvt .Ltd.	J&K	1 2 3 4 5	205 205 205 205 30	2017-18 2017-18 2017-18 2017-18 2017-18		2022-23 2022-23 2022-23 2022-23 2022-23 (subject to re-start of works(5 years))	60	5517.02 (03/12)		6257.00 (09/2013)	739.98	➢ Slow progress of works. ➢ Works suspended since 11.7.14 due to frequent local disturbance. ➢ Developer wants to surrender the Project to State Govt. The parties namely, GVKRHEPPL and JKPDD have contested their respective claims and matter is now Sub-judice.

33	Gongri 2x72= 144 MW Dirang Energy (P)Ltd	Ar. Pradesh	1 2	72 72	2016-17 2016-17 (Oct'16)		2021-22 2021-22 (subject to re-start of works(3-½ years)	65	1436.27 (05/12)		1436.27 (05/12)	Nil	➢ Works awarded on 22.11.2011. However, consent to establish from State Pollution Control Board was issued on 19-5-14. ➢ Financial constraints with the developer.
34	Bajoli Holi 3x60= 180 MW M/s GMR Bajoli Holi	H.P.	1 2 3	60 60 60	2018-19 2018-19 2018-19 (May'18)		2019-20 2019-20 2019-20 (Aug,19)	15	1696.93		2481.00	784.07	➢ Slow progress of works.
35	Rangit-II 2x33= 66 MW Sikkim Hydro Power Ltd.	Sikkim	1 2	33 33	2015-16 2015-16 (Apr'15)		2019-20 2019-20 (Mar'20)	59	496.44		496.44	Nil	➢ Slow progress of works. ➢ Financial constraints with the developer.
36	Panan 4x75= 300 MW Himagiri Hydro Energy Pvt. Ltd.	Sikkim	1 2 3 4	75 75 75 75	2018-19 2018-19 2018-19 2018-19		2022-23 2022-23 2022-23 2022-23 (subject to re-start of works(4-½ years)	48	1833.05 (2009)		2491.00 (2016)	657.95	➢ Clearance from NWLB received in December, 2015. ➢ Clearance from NGT.
37	Tidong-I 2x50 =100 MW NSL Tidong	Himachal Pradesh	1 2	50 50	2013-14 2013-14 (Dec'13)		2018-19 2018-19 (subject to re-start of works(1-½ years)	63	543.15 (01/07)		1286.27 (01/17)	743.12	➢ Delay in NOC by Projects affected Panchayats. ➢ Suspension of works by Govt.for one year. ➢ Funds constraints with the developer

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6253
ANSWERED ON 05.04.2018

NON-FUNCTIONAL TRANSFORMERS

†6253. SHRI VIJAY KUMAR HANSDAK:

Will the Minister of POWER
be pleased to state:

(a) whether electricity is not being supplied for months as transformers being used in rural electrification across Jharkhand particularly in Sahebganj, Pakur, Godda and Dumka districts remain out of order for several months;

(b) if so, the details thereof;

(c) whether the Government has made any review regarding quality of transformers so as to address the above mentioned problems; and

(d) if not, the reasons therefor?

A N S W E R

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

(SHRI R. K. SINGH)

(a) to (d) : As reported by the Jharkhand Bijli Vitran Nigam Limited (JBVNL), under the erstwhile Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY), mostly 10 KVA & 16 KVA transformers were installed in villages of Districts Sahebganj, Pakur, Godda and Dumka, which failed at many places due to overloading. Majority of these transformers have already been replaced by 3 phase 25 KVA transformers by creating necessary infrastructure. Further, to prevent burning of existing transformers, additional 25 KVA transformers are targeted for installation / replacement. As per prevailing practice all transformers are tested before installation.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6255
ANSWERED ON 05.04.2018

ELECTRICITY TO ALL

6255. SHRI KAUSHALENDRA KUMAR:

Will the Minister of POWER
be pleased to state:

(a) whether any target was fixed by the Government for providing electricity to all by 2012;

(b) if so, the details thereof and the achievements made therein;

(c) the steps taken by the Government to provide electricity to all the people 24x7 at affordable prices;

(d) whether all the rural households are not connected with electricity for lighting; and

(e) if so, the details thereof?

A N S W E R

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

(SHRI R. K. SINGH)

(a) to (e) : Electricity is a concurrent subject and distribution of electricity & management of associated functions is carried out by concerned State Government / Distribution utility. Government of India has taken a joint initiative with all the States/UTs for preparation of State specific documents for providing 24x7 power supply to all households, industrial & commercial consumers and adequate supply of power to agricultural consumers as per State policy. All the State Governments and Union Territories have signed the “24X7 Power For All” document to provide electricity to all from 1st April 2019. Government of India supports the efforts of States through its various schemes including Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and Integrated Power Development Scheme (IPDS) etc.

Further Government of India have launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – Saubhagya to achieve 100% household electrification by providing last mile connectivity and electricity connections to all households in rural and all poor households in urban areas.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6259
ANSWERED ON 05.04.2018

ELECTRIFICATION OF REMOTE VILLAGES IN ASSAM

6259. SHRI SIRAJUDDIN AJMAL:

Will the Minister of POWER
be pleased to state:

(a) whether the Union Government has taken any steps for electrification of off-grid/un-electrified census villages situated in remote areas of river Brahmaputra through new and renewable energy sources, if so, the details thereof;

(b) the details of funds released by the Union Government to Assam during the last three years and the current year; and

(c) the details of the present target and plan of the Government to electrify villages in remote areas of Assam through new and renewable energy sources?

A N S W E R

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

(SHRI R. K. SINGH)

(a) : In Brahmaputra area, 214 villages have been electrified with Solar PV Standalone System and Solar PV Micro Grid System.

(b) : A grant of Rs.119.13 crore has been released to Government of Assam during the last three years and the current year (up to 27.03.2018) for electrification of remote villages of Assam through off-grid solution.

(c) : As reported by the State of Assam, there were 2,892 un-electrified census villages in the State as on 01.04.2015; which have now been electrified, excluding 160 villages found as uninhabited/grazing reserve.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6263
ANSWERED ON 05.04.2018

ELECTRIFICATION OF REMOTE VILLAGES

†6263. SHRI GOPAL SHETTY:

Will the Minister of POWER
be pleased to state:

(a) whether the Government has received proposals regarding electrification of villages located in inaccessible areas including backward villages and forest areas through non-conventional energy sources;

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

(c) the number of such proposals approved, along with the number of proposals lying pending for approval, State-wise;

(d) the time by which the remaining proposals are likely to be approved; and

(e) the total funds released for this purpose by the Government during the last three years and the current year, State- wise?

A N S W E R

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

(SHRI R. K. SINGH)

(a) to (e) : All the un-electrified villages in the country, including those in backward and forest areas, are targeted for electrification under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) through on-grid and off-grid mode. No proposals are pending for approval.

The State-wise details continuing off-grid projects sanctioned and funds released during the last 3 years and the current year (up to 27.03.2018) are given at Annexure-I & II respectively.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 6263 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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State-wise projects sanctioned for off-grid projects under DDUGJY

Sl. No.	Name of the State	No. of Projects	Villages	Sanctioned Cost (Rs. in Lakh)
Projects sanctioned in 2014-15				
Nil				
Projects sanctioned in 2015-16				
1	Andhra Pradesh	229	0	1934.60
2	Assam	521	521	29480.84
3	Arunachal Pradesh	1000	1000	11748.45
4	Chhattisgarh	523	161	17794.96
5	Jharkhand	305	316	14719.00
6	Karnataka	2	3	61.50
7	Madhya Pradesh	122	122	6092.55
8	Meghalaya	77	77	823.00
9	Odisha	190	190	5676.00
	Total	2969	2390	88330.90
Projects sanctioned in 2016-17				
1	Arunachal Pradesh	176	176	4183.20
2	Chhattisgarh	327	327	9126.00
3	Jharkhand	77	77	4898.00
5	Meghalaya	132	132	3232.00
6	Uttarakhand	13	13	330.50
7	Odisha	79	79	3829.00
	Total	804	804	25598.70
Projects sanctioned in 2017-18 (up to 27.03.2018)				
1	Manipur	94	94	1705.09
	Total	94	94	1705.09
	Grand Total	3867	3288	115634.69

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 6263 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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State-wise funds released for off-grid projects under DDUGJY		
Sr. No	Name of the State	Grant (Rs. In Lakh)
FY 2014-15		
1	Andhra Pradesh	139.17
2	Chhattisgarh	1312.60
3	Madhya Pradesh	664.06
4	Uttarakhand	148.34
	Sub Total	2264.17
FY 2015-16		
1	Andhra Pradesh	1,092.49
2	Chhattisgarh	3,203.09
3	Karnataka	529.74
4	Uttar Pradesh	1,131.87
5	Madhya Pradesh	393.23
	Sub Total	6,350.43
FY 2016-17		
1	Chhattisgarh	5098.04
2	Assam	8169.66
3	Rajasthan*	2468.35
4	Kerala	124.39
5	Andhra Pradesh	208.59
	Sub Total	16069.03
FY 2017-18 (up to 27.03.2018)		
1	Arunachal Pradesh	2,413.84
2	Assam	3,742.97
3	Madhya Pradesh	184.41
4	Odisha	4,615.60
5	Meghalaya	713.53
6	Telangana	198.04
7	Andhra Pradesh	704.09
8	Chhattisgarh	4,147.73
9	Jharkhand	5,207.20
10	Rajasthan*	1,974.68
11	Manipur	1,087.00
12	Karnataka	539.70
	Sub Total	25,528.78
	Grand Total	50,212.41

Note: Funds released for Rajasthan State during 2016-17 are against the projects sanctioned by MNRE. For these projects Monitoring Committee approved release of funds as additional support under DDUGJY at the rate of 45% of the project cost.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6274
ANSWERED ON 05.04.2018

SPECIAL CATEGORY TARIFF FOR ELECTRIC VEHICLES

6274. SHRI CH. MALLA REDDY:

Will the Minister of POWER
be pleased to state:

(a) whether The Central Electricity Authority (CEA) is considering a special category tariff for electric vehicles (EVs) to facilitate mass transit through such vehicles, if so, the details thereof;

(b) whether Energy Efficiency Services floating a global tender for 10,000 electric vehicles to be used by Government organisations; and

(c) if so, the details thereof?

A N S W E R

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

(SHRI R. K. SINGH)

(a) : To facilitate mass transit through use of Electric Vehicles (EVs), Government of India is providing all necessary support including the tariff framework for electricity to be used in EVs battery charging stations. Treating any consumer under a special category tariff is decided by the appropriate commission and hence Central Electricity Authority (CEA) has not suggested any special category tariff for EVs.

(b) & (c) : Yes, Madam. Energy Efficiency Services Limited (EESL) has issued a global tender on 18th August, 2017 for procurement of 10,000 Electric Cars. The procurement process has been completed and Letter of Awards (LoAs) have been issued to M/s Tata Motors (5050 nos.) and M/s Mahindra & Mahindra Ltd (4950 nos.). These cars will be provided to Government entities on lease/outright purchase basis.

In addition, a tender to procure another 10,000 e-vehicles has been issued on 12th March, 2018 as states like Andhra Pradesh and Gujarat have sent their demand.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6290
ANSWERED ON 05.04.2018

PROJECTS UNDER DDUGJY

6290. SHRI JANARDAN SINGH SIGRIWAL:

Will the Minister of POWER
be pleased to state:

(a) whether the National Thermal Power Corporation (NTPC) and some other public sector power companies have been entrusted with the responsibility of implementing the Pt. Deen Dayal Upadhyaya Gram Jyoti Yojana in some States of the country;

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

(c) whether many projects under the Yojana have not been granted approval;

(d) if so, the details thereof along with the reasons therefor; and

(e) the corrective steps taken by the Government in this regard?

A N S W E R

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

(SHRI R. K. SINGH)

(a) & (b) : Under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Jammu & Kashmir has entrusted execution of some new projects to Power Grid Corporation of India Limited (PGCIL). NTPC is implementing some projects under RE component of DDUGJY in Odisha.

(c) to (e) : All the proposals/Detailed Project Reports received from the State Governments under DDUGJY, have been sanctioned.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6314
ANSWERED ON 05.04.2018

HYDRO POWER PLANTS

†6314. PROF. RAVINDRA VISHWANATH GAIKWAD:

Will the Minister of POWER
be pleased to state:

(a) whether the Government proposes to set up more power plants of NHPC;

(b) if so, the details thereof;

(c) the details of NHPC run power plants presently in the country along with the plant-wise quantum of power being produced therein, State-wise; and

(d) the details of the production and distribution of hydro-electric power in the country, State-wise?

A N S W E R

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

(SHRI R. K. SINGH)

(a) & (b) : Setting up of Hydro-Electric Projects (HEPs) is an ongoing process. Presently, two HEPs of NHPC namely, Parbati-II (800 MW) and Subansiri Lower (2000 MW), having an installed capacity of 2800 MW are under construction.

(c) : Details of NHPC run Hydro power plants (20 Nos) in the country along with quantum of power produced during 2017-18 (upto 28.02.2018) are furnished at Annex-I.

(d) : Details of production of power from Hydro Power Plants in the country are furnished at Annex-II.

Details of distribution/allocation of Hydro Power from Central/Joint/ Common Sector Hydro Power Plants in the country are furnished at Annex-III.

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 6314 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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As on 28.02.2018

State-wise Generation of NHPC Hydro Power Stations

Sl. No.	State	Installed Capacity (as on 28.02.2018)	Generation 2017-18 (Upto 28.02.2018)*	
		(MW)	(MU)	
	Himachal Pradesh			
1	Baira Siul	180.00	612.42	
2	Chamera-I	540.00	2274.11	
3	Chamera-II	300.00	1442.04	
4	Chamera-III	231.00	1040.15	
5	Parbati-III	520.00	699.33	
	Sub-Total HP	1771.00	6068.05	
	Jammu & Kashmir			
6	Chutak	44.00	42.02	
7	Dulhasti	390.00	2264.37	
8	Nimoo Bazgo	45.00	88.38	
9	Salal I	345.00	3144.37	
10	Salal II	345.00		
11	Sewa-II	120.00	470.11	
12	Uri	480.00	2173.41	
13	Uri-II	240.00	1105.90	
	Sub-Total J&K	2009.00	9288.56	
	Uttarakhand			
14	Dhauliganga	280.00	1126.38	
15	Tanakpur	94.20	444.57	
	Sub-Total Uttarakhand	374.20	1570.95	
	Sikkim			
16	Rangit	60.00	333.2	
17	Teesta-V	510.00	2715.43	
	Sub-Total Sikkim	570.00	3048.63	
	West Bengal			
18	Teesta Low Dam-III	132.00	371.15	
19	Teesta Low Dam-IV	160.00	475.31	
	Sub-Total West Bengal	292.00	846.46	
	Manipur			
20	Loktak	105.00	794.69	
	Sub-Total Manipur	105.00	794.69	
	Grand Total NHPC Ltd.	5121.20	21617.34	

*Tentative

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ANNEX-II

ANNEX REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 6314 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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As on 28.02.2018

State-wise Details of H E Stations in the Country

Sl. No.	State/Station	Utility	Installed Capacity (as on 28.02.2018)	Generation 2017-18 (Upto 28.02.2018)*
			(MW)	(MU)
	Himachal			
1	Bhakra L&R	BBMB	1325.00	4752.64
2	Dehar	BBMB	990.00	2994.44
3	Pong	BBMB	396.00	1500.49
4	Kashang I	HPPCL	65.00	193.67
5	Kashang II & III	HPPCL	130.00	
6	Sainj	HPPCL	100.00	126.94
7	Bassi	HPSEBL	66.00	309.17
8	Giri Bata	HPSEBL	60.00	165.56
9	Larji	HPSEBL	126.00	594.60
10	Sanjay	HPSEBL	120.00	475.34
11	Allain Duhagan (Pvt.)	ADHPL	192.00	672.08
12	Malana - II (Pvt.)	EPPL	100.00	362.97
13	Baspa-II	HBPCL	300.00	1308.82
14	Karcham Wangtoo	HBPCL	1000.00	4460.30
15	Budhil (Pvt.)	GBHPPL	70.00	312.95
16	Chanju I	IAEPL	36.00	78.46
17	Malana	MPCL	86.00	340.25
18	Baira Siul	NHPC	180.00	612.45
19	Chamera-I	NHPC	540.00	2274.15
20	Chamera-II	NHPC	300.00	1442.10
21	Chamera-III	NHPC	231.00	1040.19
22	Parbati III	NHPC	520.00	699.33
23	Nathpa Jhakri	SJVNL	1500.00	7008.81
24	Rampur	SJVNL	412.02	1959.75
25	Kol Dam	NTPC	800.00	3237.82
26	Shanan	PSPCL	110.00	498.17
	Total HP		9755.02	37421.45
	JAMMU & KASHMIR			
27	Baglihar	JKSPDCL	450.00	2515.06
28	Baglihar	JKSPDCL	450.00	1703.37
29	Lower Jhelum	JKSPDCL	105.00	440.06
30	Upper Sindh II	JKSPDCL	105.00	322.44
31	Chutak	NHPC	44.00	42.06
32	Dulhasti	NHPC	390.00	2264.43
33	Nimoo Bazgo	NHPC	45.00	88.41
34	Salal-I	NHPC	345.00	3144.38
35	Salal-II	NHPC	345.00	
36	Sewa-II	NHPC	120.00	470.13
37	Uri	NHPC	480.00	2173.47
38	Uri-II	NHPC	240.00	1105.95
	Total J&K		3119.00	14269.76

	PUNJAB			
39	Ganguwal	BBMB	77.65	439.32
40	Kotla	BBMB	77.65	452.33
41	A.P.Sahib I&II	PSPCL	134.00	593.86
42	Mukerian I-IV	PSPCL	207.00	1143.35
43	Ranjit Sagar	PSPCL	600.00	1763.76
	Total PUNJAB		1096.30	4392.62
	RAJASTHAN			
44	Jawahar Sagar	RRVUNL	99.00	234.45
45	Mahi Bajaj I&II	RRVUNL	140.00	157.39
46	R.P. Sagar	RRVUNL	172.00	338.12
	Total RAJASTHAN		411.00	729.96
	UTTAR PRADESH			
47	Khara	UPJVNL	72.00	249.00
48	Matatilla	UPJVNL	30.60	88.51
49	Obra	UPJVNL	99.00	277.57
50	Rihand	UPJVNL	300.00	777.38
	Total UPJVNL		501.60	1392.46
	UTTARAKHAND			
51	Chibro (Y.St.II)	UJVNL	240.00	758.68
52	Chilla	UJVNL	144.00	760.50
53	Dhakrani (Y.St.I)	UJVNL	33.75	125.36
54	Dhalipur (Y.St.I)	UJVNL	51.00	180.46
55	Khatima	UJVNL	41.40	201.99
56	Khodri (Y.St.II)	UJVNL	120.00	344.10
57	Kulhal (Y.St.IV)	UJVNL	30.00	118.67
58	Maneri Bhali-I	UJVNL	90.00	376.50
59	Maneri Bhali-II	UJVNL	304.00	1234.90
60	Ram Ganga	UJVNL	198.00	224.74
61	Shrinagar	AHPC	330.00	1350.83
62	Vishnu Prayag	JPVL	400.00	2112.32
63	Dhauliganga	NHPC	280.00	1126.46
64	Tanakpur	NHPC	94.20	444.55
65	Tehri	THDCL	1000.00	2868.62
66	Koteshwar	THDCL	400.00	1129.30
	Total UTTARAKHAND		3756.35	13357.98
	Total N. REGION		18639.27	71564.23
	WERSTERN REGION			
	CHHATISGARH			
67	Hasdeo Bango	CSPGC	120.00	175.50
	TOTAL CHHATISGARH		120.00	175.50
	GUJARAT			
68	Kadana PSS	GSECL	240.00	300.55
69	Ukai	GSECL	300.00	284.04
70	Sardar Sarovar CHPH	SSNNL	250.00	563.74
71	Sardar Sarovar RBPH	SSNNL	1200.00	376.61
	Total GUJARAT		1990.00	1524.94
	MADHYA PRADESH			
72	Bansagar Tons-I	MPPGCL	315.00	516.76
73	Bansagar Tons-II	MPPGCL	30.00	52.77
74	Bansagar Tons-III	MPPGCL	60.00	68.80
75	Bargi	MPPGCL	90.00	151.41
76	Gandhi Sagar	MPPGCL	115.00	287.62
77	Madhikhera	MPPGCL	60.00	22.49
78	Rajghat	MPPGCL	45.00	55.62
79	Indira Sagar	NHDC	1000.00	849.73
80	Omkareshwar	NHDC	520.00	428.99
	TOTAL MADHYA PRADESH		2235.00	2434.19

	MAHARASHTRA			
81	Bhira Tail Race	MAHAGENCO	80.00	90.81
82	Ghatghar PSS	MAHAGENCO	250.00	143.40
83	Koyna DPH	MAHAGENCO	36.00	123.75
84	Koyna St.I& II	MAHAGENCO	600.00	953.35
85	Koyna St.III	MAHAGENCO	320.00	439.79
86	Koyna IV	MAHAGENCO	1000.00	783.70
87	Tillari	MAHAGENCO	60.00	49.55
88	Vaitarna	MAHAGENCO	60.00	167.97
89	Bhandardhara - II	DLHP	34.00	36.49
90	Bhira	TPCL	150.00	830.58
91	Bhira PSS	TPCL	150.00	
92	Bhivpuri	TPCL	75.00	268.84
93	Khopoli	TPCL	72.00	293.52
94	Pench	MPPGCL	160.00	154.76
	Total Maharashtra		3047.00	4336.51
	Total Western		7392.00	8471.14
SOUTHERN REGION				
ANDHRA PRADESH				
95	Lower Sileru	APGENCO	460.00	977.03
96	N.J.Sagar RBC	APGENCO	90.00	59.77
97	N.J.Sagar TPD	APGENCO	50.00	36.92
98	Srisailam RB	APGENCO	770.00	477.92
99	Upper sileru I&II	APGENCO	240.00	445.32
	TOTAL ANDHRA PRADESH		1610.00	1996.96
	TELANGANA			
100	Lower Jurala	TSGENCO	240.00	205.80
101	N.J.Sagar PSS	TSGENCO	815.60	149.10
102	N.J.Sagar LBC	TSGENCO	60.00	12.83
103	Pochampad	TSGENCO	36.00	31.37
104	Srisailam LB	TSGENCO	900.00	772.09
105	Priyadarshni	TSGENCO	234.00	217.40
106	Pulinchinthala	TSGENCO	90.00	6.60
	Total TELANGANA		2375.60	1395.19
	KARNATAKA			
107	T.B.Dam & Hampi	APGENCO	72.00	131.11
108	Amatti Dam	KPCL	290.00	425.77
109	Bhadra	KPCL	39.20	11.85
110	Gerusoppa	KPCL	240.00	246.53
111	Ghatprabha	KPCL	32.00	44.05
112	Jog	KPCL	139.20	177.36
113	Kadra	KPCL	150.00	180.90
114	Kalinadi	KPCL	855.00	1317.79
115	Supa DPH	KPCL	100.00	243.43
116	Kodasali	KPCL	120.00	152.88
117	Lingnamakki	KPCL	55.00	108.30
118	Munirabad	KPCL	28.00	51.00
119	Sharavathy	KPCL	1035.00	2355.42
120	Shivasamudram	KPCL	42.00	172.07
121	Varahi	KPCL	460.00	694.68
	Total Karnataka		3657.40	6313.14
	KERALA			
122	Idamalayar	KSEBL	75.00	213.95
123	Idukki	KSEBL	780.00	1361.01
124	Kakkad	KSEBL	50.00	137.66
125	Kuttiadi	KSEBL	125.00	554.18

126	Kuttiadi Addn. Extn.	KSEBL	100.00	
127	Lower Periyar	KSEBL	180.00	486.26
128	Neriamangalam	KSEBL	70.00	288.19
129	Pallivasal	KSEBL	37.50	173.10
130	Panniar	KSEBL	30.00	109.58
131	Poringalkuthu	KSEBL	32.00	115.71
132	Sabarigiri	KSEBL	300.00	801.42
133	Sengulam	KSEBL	48.00	141.20
134	Sholayar	KSEBL	54.00	181.57
	Total Kerala		1881.50	4563.83
	TAMILNADU			
135	Aliyar	TANGEDCO	60.00	90.08
136	Bhawani Kattalai Barrage-III	TANGEDCO	30.00	0.00
137	Bhawani Kattalai Barrage-II	TANGEDCO	30.00	37.66
138	Bhawani Kattalai Barrage-I	TANGEDCO	30.00	16.68
139	Kadamparai PSS	TANGEDCO	400.00	335.94
140	Kodayar I&II	TANGEDCO	100.00	123.88
141	Kundah I-V	TANGEDCO	555.00	701.38
142	Lower Mettur I-IV	TANGEDCO	120.00	130.24
143	Mettur Dam & Tunnel	TANGEDCO	250.00	214.08
144	Moyar	TANGEDCO	36.00	81.14
145	Papanasam	TANGEDCO	32.00	108.67
146	Parson's Valley	TANGEDCO	30.00	22.31
147	Periyar	TANGEDCO	161.00	287.07
148	Pykara	TANGEDCO	59.20	0.98
149	Pykara Ultimate	TANGEDCO	150.00	234.28
150	Sarkarpathy	TANGEDCO	30.00	85.41
151	Sholayar I&II	TANGEDCO	95.00	157.72
152	Suruliyar	TANGEDCO	35.00	65.75
	Total TAMILNADU		2203.20	2693.27
	Total Southern		11727.70	16962.39
	EASTERN REGION			
	JHARKHAND			
153	Maithon (WB)	DVC	63.20	107.37
154	Panchet	DVC	80.00	135.10
155	Subernarekha I&II	JUUNL	130.00	188.65
	Total Jharkhand		273.20	431.12
	ODISHA			
156	Machkund	APGENCO	114.75	420.38
157	Balimela	OHPC	510.00	1418.47
158	Hirakud I	OHPC	275.50	590.05
159	Hirakud II	OHPC	72.00	232.33
160	Rengali	OHPC	250.00	707.61
161	Upper Indravati	OHPC	600.00	1624.26
162	Upper Kolab	OHPC	320.00	645.40
	Total ODISHA		2142.25	5638.50
	SIKKIM			
163	Jorethang Loop	DEPL	96.00	396.10
164	Tashiding	SEPL	97.00	62.09
165	Dikchu	SKPPPL	96.00	361.96
166	Chuzachen (Sikkim)	GIPL	110.00	433.65
167	Teesta III	TUL	1200.00	4267.08
168	Rangit	NHPC	60.00	333.08
169	Teesta-V	NHPC	510.00	2715.41
	Total Sikkim		2169.00	8569.37

	WEST BENGAL			
170	Jaldhaka - I	WBSEDCL	36.00	136.00
171	Purulia PSS	WBSEDCL	900.00	939.79
172	Ramman II	WBSEDCL	50.00	114.15
173	Teesta Low Dam-III	NHPC	132.00	371.19
174	Teesta Low Dam-IV	NHPC	160.00	475.35
	Total West Bengal		1278.00	2036.48
	Total Eastern		5862.45	16675.47
	NORTH EASTERN REGION			
	ASSAM			
175	Karbi Langpi	APGCL	100.00	472.80
176	Khandong	NEEPCO	75.00	255.95
177	Kopili	NEEPCO	200.00	1139.59
	TOTAL ASSAM		375.00	1868.34
	MEGHALAY			
178	Kyrdemkulai	MePGCL	60.00	120.67
179	Myntdu	MePGCL	126.00	499.42
180	New Umtru	MePGCL	40.00	152.82
181	Umium St.I	MePGCL	36.00	119.84
182	Umium St. IV	MePGCL	60.00	204.88
	Total MEGHALAYA		322.00	1097.63
	NAGALAND			
183	Doyang	NEEPCO	75.00	271.44
	TOTAL NAGALAND		75.00	271.44
	MIZORAM			
184	Tuirial	NEEPCO	60.00	73.47
	TOTAL MIZORAM		60.00	73.47
	ARUNACHAL PRADESH			
185	Ranganadi	NEEPCO	405.00	1365.90
	Total ARUNACHAL		405.00	1365.90
	MANIPUR			
186	Loktak (Manipur)	NHPC	105.00	795.82
	Total MAINPUR		105.00	795.82
	Total N.Eastern		1342.00	5472.60
	TOTAL ALL INDIA		44963.42	119145.83
	* tentative			

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ANNEX-III

ANNEX REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 6314 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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As on 28.02.2018

Allocation of Power from Central/ Joint / Common Sector HE Projects

NORTHERN REGION

A. Central Sector / Joint Sector Projects

Sl.No.	State	Baira Siul (3x60 MW)		Salal Stage-I(3x115MW)		Salal St. II (3x115 MW)	
		(MW)	(%)	(MW)	(%)	(MW)	(%)
1	Haryana	54.90	30.5	70.04	20.30	16.8	4.9
2	Himachal Pradesh	21.60	12.0	-	-	9.9	2.9
3	Jammu & Kashmir	-	0.0	120.75	35.00 @	62.8	18.2
4	Punjab	83.70	46.5	112.13	32.50	53.0	15.4
5	Rajasthan	-	-	-	-	29.6	8.6
6	Uttar Pradesh	-	-	-	-	82.2	23.8
7	Chandigarh	-	-	-	-	2.7	0.8
8	Delhi	19.80	11.0	42.09	12.20	36.2	10.5
9	Unallocated	-	-	-	-	51.8	15.0
	Total	180.00	100.0	345.00	100.00	345.0	100.0
		MOP Letter No.16/19/93-DO(NHPC) Dt. 5.9.94 (%)		MOP Letter No.16/19/93-DO(NHPC) Dt. 5.9.94 (%)		MOP letter No.16/50/93-DO(NHPC) dated 22nd Oct,1993[MW & %]	

Sl. No.	State	Chamera st-I (3x180 MW)		Tanakpur (3x40 MW)		Uri (4x120 MW)	
		(MW)	(%)	(MW)	(%)	(MW)	(%)
1	Haryana	26.30	4.9	6.00	5.0	26.00	5.4
2	Himachal Pradesh	80.30	14.9 @	4.00	3.3	13.00	2.7
3	Jammu & Kashmir	33.50	6.2	8.00	6.7	91.00	19.0
4	Punjab	82.90	15.4	18.00	15.0	66.00	13.8
5	Rajasthan	46.40	8.6	11.00	9.2	43.00	9.0
6	Uttar Pradesh	128.70	23.8	41.00	34.2 @	113.00	23.5
7	Chandigarh	4.20	0.8	1.00	0.8	3.00	0.6
8	Delhi	56.70	10.5	13.00	10.8	53.00	11.0
9	Unallocated	81.00	15.0	18.00	15.0	72.00	15.0
			0.0				
	Total	540.0	100.0	120.0	100.0	480.0	100.0
		MOP letter No.16/50/93-DO(NHPC) dated 22nd Oct.,1993[MW & %]		MOP & NCES letter No. 16/46/86-DO (NHPC) dated 18th Mar.,1992 [MW & %]		MOP letter No.16/61/96-DO(NHPC) dated 13th Jan,1997[MW & %]	

@ --- Incluiding 12'%' free power to home state

[MW] indicates the manner in which allocation has been indicated in the letters

(%) indicates that allocation was made on percentage basis

Sl. No.	State	Nathpa Jhakari (6x250 MW)		Rampur HEP (6x68.67 MW)		Chamera st-II (3x100 MW)		Dhauluganga (4x70 MW)	
		(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)
1	Haryana	64.00	4.27	17.11	4.15	17.0	5.66	16.00	7.82
2	Himachal Pradesh*	547.00	36.47	172.66	41.91	47.0 *	15.67	10.00	5.05
3	Jammu & Kashmir	105.00	7.00	29.35	7.12	19.0	6.33	17.00	8.22
4	Punjab	114.00	7.60	23.16	5.62	30.0	10.00	28.00	13.61
5	Rajasthan	112.00	7.47	31.81	7.72	29.0	9.66	27.00	13.22
6	Uttar Pradesh	221.00	14.73	56.68	13.76	62.0	20.66	56.00	27.39
7	Uttarakhand	38.00	2.53	16.10	3.91	0.0	0.00	45.00 *	17.58
8	Chandigarh	8.00	0.53	2.49	0.60	2.0	0.60	2.00	0.95
9	Delhi	142.00	9.47	25.00	6.07	40.0	13.33	37.00	18.19
10	Unallocated**	149.00	9.93	37.64	9.14	54.0 **	17.99	42.00	15.00
						300.0	100.00	280.0	100.00
	Total	1500.00	100.00	412.00	100.00	MOP letter No.10/1/03-DO(NHPC) Dt 2.9.04 & modified on 19.10.04 [MW & %]		MOP letter No.12/1/98-DO NHPC dated 26.4.2005 (MW & %)	
	MOP letter No.13/12/2002-H-II		Dated-26th March,2003			*Includes 12% free power **Includes 9 MW share of Uttaranchal declined by them		* 33.6 MW share constituting 12% free power to home state+11.4 MW entitled share	
	MOP letter No.23/15/2013-H-II		Dated-18th December,2013						

The allocation to HP in Nathpa Jhakri includes:

(i) * 12% free power on account of distress caused

(ii) * 25% share (ie 330MW) in remaining 88%, corresponding to the states agreed share of 25% in equity contribution.

(iii) ** The unallocated quota (15% of power available after taking into account (I) & (ii) above) is to be distributed within the region or outsidedepending upon requirement.

(iv) * 4.4% share (ie 37 MW) of the state in the remaining power available after taking into account (i) to (iii) above as per allocation formula based on central plan assistance and energy sale.

Dulhasti (NHPC) in J&K

Total capacity	390.00 MW
Home state share (J&K)-12%	46.80 MW
Equity share - 15%	58.50 MW
Balanced capacity - 73%	284.70 MW

(For allocation to constituent states of NR)

Sl. No.	State	Allocation	
		%	(MW)
1	Haryana	7.50	21.36
3	Jammu & Kashmir *	12.45	35.69*
4	Punjab	11.34	32.28
5	Rajasthan	14.90	42.42
6	(Uttar Pradesh)	35.50#	85.05
7	(Uttarakhand)		16.02
8	Chandigarh	0.65	1.85
9	Delhi	17.57	50.03
	Total	100.00	284.70

MOP letter No.2/2/2006-DO (NHPC) Dt 27.03.2008

* 12.75 MW of entitled share of HP constituting 4.48% of total capacity (after deducting 12% free power of home state of Jammu & Kashmir and 15% unallocated share) is allotted to J&K as Himachal Pradesh has refused to purchase power from Dulhasti HEP.

#The allocation in respect of Uttar Pradesh & Uttarakhand has been worked out keeping the erestwhile undivided State of Uttar Pradesh. The share of 101.07 MW for undivided UP has been apportioned in the ratio of 84.15 % and 15.85 % respectively for Uttar Pradesh and Uttarakhand.

Tehri stage-I (THDCIL) in Uttarakhand	
Total capacity of Tehri-I	1000MW
Home state share (To Uttaranchal)-12%	120MW
Equity share (to UP)-25% of balance 880MW	220MW
Unallocated share-15% of balance 660MW	99MW
Balance capacity	561MW

Vishnugad Pipalkoti HEP(THDCIL) in Uttarakhand	
Total capacity of Tehri-I	444 MW
Home state share (To Uttaranchal)-12%	53.3 MW
Local Area Development	4.4 MW
Equity share (to UP)-25% of balance 386.3MW	96.6 MW
Unallocated share-15% of balance 289.7MW	43.5 MW
Balance capacity	246.2 MW

Sl. No.	State	Tehri-St-I		Vishnugad Pipalkoti HEP	
		(MW)	(%)	MW	
1	Haryana	43.00	7.71	18.40	4.14
2	Himachal Pradesh	28.00	5.03	11.50	2.58
3	Jammu & Kashmir	48.00	8.59	23.60	5.32
4	Punjab	77.00	13.66	26.90	6.05
5	Rajasthan	75	13.33	37.30	8.41
6	$ Uttar Pradesh	154+220**	27.4+25% of 880MW	165.50	37.27#
7	$ Uttarakhand	27+120*	4.81+12% of 1000MW	71.80	16.17***
8	Chandigarh	6	1.01	2.00	0.46
9	Delhi	103	18.46	43.60	9.81
10	Unallocated	99	15% of 660 MW	43.40	9.79
	Total	479	100	444.00	100

Tehri St.-I

** Equity share of power * Affected state share

MOP letter No.11/6/2003/H-I Dated-18th May, 2005

Vishnugad Pipalkoti HEP

Including equity share

*** including 13% free share(12% home state share and 1% local area development)

MOP letter No.11/28/2008/H-I Dated-26th December, 2011

$ (As the Central plan assistance and energy sales of Uttaranchal and Newly formed UP are not available for the five year period 1998-2003, the shares have first been worked out for the undivided UP. The share of undivided UP is further divided between newly formed UP and Uttaranchal in the ratio of 85.18% and 4.82% considering central plan assistance for 2001-02 and respectve ratio of Energy consumption of 90:10 as per Ministry of Power's order dated 5.11.2001.)

Allocation of Power from Koteshwar H.E.Project (400MW) - Uttarakhand (THDC)

Total capacity of Koteshwar	400 MW
Affected state share (To Uttaranchal)-12%	48 MW
Equity share (to UP)-25% of balance352 MW	88 MW
Unallocated share-15% of balance 264MW	39.6 MW
Balance capacity for State/UT wise allocation	224.4 MW

Sl. No.	State/UT	Affected States Share/Equity Share/Unallcated	Proportion in which the balance capacity of 56.1% is to be shared	Total Share as % of Installed Capacity	Equivalent Quantum
		(%)	(%)	(%)	MW
1	Chandigarh		0.65	0.36	1.50
2	Haryana		7.50	4.21	16.80
3	Himachal Pradesh		4.48	2.51	10.10
4	Jammu & Kashmir		8.06	4.52	18.10

5	Punjab		11.34	6.36	25.50
6	Rajasthan		14.90	8.36	33.40
7	Uttar Pradesh	22 $	29.87	38.76	155.00**
8	Uttarakhand	12*	5.63	15.16	60.60
9	Delhi		17.57	9.86	39.40
10	Unallocated	9.9#		9.90	39.60
	Total		100.00	100.00	400.00

Vide Letter No.F.No.11/9/2006-H-I Dt.8.8.2007, of U.S.,MOP.

*12% of total capacity(Affected State Share.) $ 25% of 88% (i.e. total capacity less affected State Share.)

#15% of 66%(i.e. total capacity less affected State share & equity share)

{** As the Central Plan Assistance and Energy Consumption of Uttarakhand and Newly formed UP are not available for the Five Year period 2000-05, the states have been worked our for the undevided UP is 80 MW. The share of 80 MW for undivided UP is further divided between Newly formed UP and Uttarakhand in the ratio of 84.15% and 15.85% considering Energy consumption and Central Plan Assistsnce for three years i.e. 2002-03, 2003-04 and 2004-05. The share worked out for Newly formed UP and Uttarakhand is as :- Newly formed U.P. = 67+88=155, Uttaranchal = 13+ 48 = 61MW, TOTAL = 216 MW.

Allocation of firm Power from Nimoo Bazgo H.E.Project (3x15=45MW) - J&K (NHPC)

	Percentage Share	Equivalent MW in Gross Installed Capacity
Home State Share (free power) to State of Jammu & Kashmir	12%	5.4 MW
Free power to state of Jammu & Kashmir for Local Area Development	1%	0.45 MW
Unallocated share	15%	6.75 MW
Capacity allocated to State of J&K	72%	32.8 MW

Vide Letter No.F.No.33/1/2002-DO(NHPC)(Vol.IV) Dt.8.4.2011, of U.S.,MOP.

The unallocated share of 15% is allocated to State of Jammu & Kashmir during the winter months.

J&K Government will provide matching 1% from their share of 12% free power towards Local Area Development Fund Corpus

Allocation of firm Power from Chutak HEP (3x11=44MW) -J&K (NHPC)

	%age Share	Equivalent MW in Gross Installed Capacity
Home State Share (free power) to State of J&K	12%	5.28 MW
Free power to state of Jammu & Kashmir for Local Area Development	1%	0.44 MW
Unallocated share	15%	6.60 MW
Capacity allocated to State of Jammu & Kashmir	72%	31.68 MW

Vide Letter No.F.No.22/10/2001-NHPC/Vol.III Dt.02.09.2011, of U.S.,MOP.

The unallocated share of 15% is allocated to State of Jammu & Kashmir during the winter months.

J&K Government will provide matching 1% from their share of 12% free power towards Local Area Development Fund Corpus

Allocation of firm Power from Uri-II HEP (4x60=240MW) -J&K (NHPC)

	%age Share	Equivalent MW in Gross Installed Capacity (*)
Haryana	5.571	13.40
HP #	Nil	Nil
J&K $	20.331	48.80
Punjab	8.132	19.50
Rajasthan	11.405	27.40
UP	21.125	50.70
Uttarakhand	4.351	10.40
Chandigarh	0.633	1.60
Delhi	13.452	32.20
Unallocated	15.000	36.00
Total	100.00	240.00

Vide Letter No.F.No.2/8/2009(NHPC) dated 11.12.2012 of MOP.
* Rounded off to one decimal place

NHPC has indicated that Power Purchase Agreement has been signed with all the costituent States of Northern Region, except Himachal Pradesh who have refused to purchase power from the project.

$ includes 13% free power (12% Home State share and 1% for Local Area Development Fund
The unallocated share of 15% is allocated to State of Jammu & Kashmir during the winter months

Sl. No.	State	Chamera-III (3x77 MW)		Parbati-III	(4x130 MW)
		(MW)	(%)	(MW)	(%)
1	Haryana	12.4	5.368	27.99	5.383
2	Himachal Pradesh	37.8	16.364#	85.05	16.356$
3	Jammu & Kashmir	15.9	6.883	35.89	6.902
4	Punjab	18.2	7.879	40.85	7.856
5	Rajasthan	25.2	10.909	56.75	10.913
6	Uttar Pradesh	46.5	20.130	104.75	20.144
7	Uttarakhand	9.5	4.113	21.38	4.112
8	Chandigarh	1.4	0.606	3.12	0.600
9	Delhi	29.4	12.727	66.22	12.735
10	Unallocated**	34.7	15.022	78.00	15.000
	Total	231.0	100.00	520.00	100.00

Chamera-III
Vide MoP letter No. 10/3/2003-NHPC(Vol.II) Dated 27.03.2012
Includes 13% free power(12% Home State share and 1% for Local Area Development Fund)
Parbati-III
Vide MoP letter No. 7/1/2002-NHPC(Vol.II) Dated 10.12.2012
$ Includes 13% free power(12% Home State share and 1% for Local Area Development Fund)

Allocation of power from Koldam Hydro Electric Project (4x200 MW) in Himachal Pradesh
(Vide MoP Letter No. 5/7/2013-Th.II(Vol. I)

Sl. No.	Northern Region States	% share of allocation	Total Share including Home State Share and Unallocated Share(MW)	% Allocation
	Haryana	8.14% of 576	46.90	9.81
	Surrendered States of Region of H.P. allocated to Haryana for 5 years		31.60	
		Total	78.50	
2	Himachal Pradesh	5.49 % of 576	31.60	28
	*Home State(12%)-Free Power for the host government	12% of 800	96.00	
	*Home State(1%)-Local Area Development as constituted by the State Govt.	1% of 800	8.00	
	Surrendered Share of Delhi	6.96%	55.66	
	Additional Power from unallocated quota to H.P.	8.04%	64.34	
		Total	255.60	
	Deducting State of Region share of H.P. for 5 years		31.60	
		Grand Total	224.00	
3	J&K	15.44% of 576	88.90	11.11
4	Punjab	10.73% of 576	61.80	7.73
5	Rajasthan	14.89% of 576	85.50	10.73
6	Uttar Pradesh	26.25% of 576	151.20	18.90
7	Uttarakhand	8.30% of 576	87.80	5.98
8	Chandigarh	1.10% of 576	6.34	0.79
9	Unallocated (6.96%)*	6.96% of 576	55.66	6.96
	Total	100.00	800.00	100.00

* The unallocated share of 6.96 % would be added to the Regional unallocated power pool of Northern Region.

Allocation of Power from Central Sector/Common Sector HE Projects

NORTHERN REGION

B. Common Projects

1

Desription	Bhakra-Nangal project	Beas Project	
		Dehar Power Project	Pong Power Project
Ex-Bus Energy available for sharing after excluding the common pool supplies and then share of Rajasthan	Y (Say)	Y (Say)	Y (Say)
Himachal Pradesh	7.19% of Y	7.19% of Y	7.19% of Y
U.T. Chandigarh	3.50% of Y	3.50% of Y	3.50% of Y
Punjab	51.80% of Y	51.80% of Y	51.80% of Y
Haryana	37.51% of Y	37.51% of Y	37.51% of Y

2 The existing common pool supplies are supplies are given below:-

(a) From Bhakra-Nangal Project

i) NFL, Naya Nangal	5 MW at 85% LF (1.02 LUs/Day)
ii) Old H.P.	10 MW at 50% LF (1.02 LUs/Day)
iii) U.T. Chandigarh	11 LUs/Day
iv) Rajasthan Fertilizer Factory	25 MW at 85% LF (5.0 LUs/Day)

(b) From Bhakra - Nangal & Beas Project

i) Project Supplies (I.B. Consumption)

3 The Existing energy share of Rajasthan after excluding above mentioned common pool supplies, is as under:-

Bhakra-Nangal project	Beas Project	
	Dehar Power Project	Pong Power Project
15.22%	15.22%	15.22%

Gandhi Sagar(5x23)+ R.P.Sagar(4x43) + Jawahar Sagar (3x33) = 386 MW			Rajghat (45 MW)		
State	MW	%	State	MW	%
Madhya Pradesh	193	50	Madhya Pradesh	22.5	50
Rajasthan	193	50	Uttar Pradesh	22.5	50

Allocation of Power from Central Sector/Common Sector HE Projects

C. Other Projects

State	Allocation
Yamuna St. I,II & IV	
Uttar Pradesh	75%
Himachal Pradesh	25% of enegy on cost of generation
Matatila	
Uttar Pradesh	67%
Madhya Pradesh	33%
Rihand	
Uttar Pradesh	85%
Madhya Pradesh	15% of power based on energy available at cost price plus 5%.
Shanan (4 x 15MW)	
Himachal Pradesh	500 kW free of charge + 1000 kW at bulk supply tariff
Punjab	Balance
Shanan Extension (1x 50 MW)	
Himachal Pradesh	45 MUs energy at cost of energy generation
Punjab	Balance

WESTERN REGION

A. Central Sector Projects

- NIL-

B. Common Sector Projects

I. Pench (160 MW)

Sl. No.	State	(MW)	(%)
1	M.P.	106.70	66.69
2	Maharashtra	53.30	33.31
	Total	160.00	100

II. Gandhi Sagar(5x23) + R.P.Sagar(4x43) + J.Sagar 3x33) = 386 MW

	State	(MW)	(%)
1	M.P.	193.00	50.00
2	Rajasthan	193.00	50.00
	Total	386	100

III. Rajghat (45 MW)

	State	(MW)	(%)
1	M.P.	22.5	50.0
2	U.P.	22.5	50.0
	Total	45	100

C Foreign Projects

- NIL-

SOUTHERN REGION

A. Central Sector Projects

-NIL-

B. Common Sector Projects

Sl. No.	Machkund (114 MW)		
	State	(MW)	(%)
1	Andhra Pradesh	79.8	70.0
2	Orissa	34.2	30.0
	Total	114	100

T.B. Dam & Hampi(72 MW)

	State	(MW)	(%)
1	Andhra Pradesh	57.6	80.0
2	Karnataka	14.4	20.0
	Total	72.0	100

C. Foreign Projects

-NIL-

EASTERN REGION

A. Central Sector Projects (NHPC)

Sl.No.	Rangit St-III (3x20 MW)		
	State	MW	%
1	DVC	6	10.00
2	Bihar	13	21.67
3	Orissa	10	16.67
4	West Bengal	14	23.33
5	Sikkim *	8	13.33
6	Unallocated	9	15.00
	Total	60	100

Teesta-V (3x170 MW)		
State	MW	%
DVC	44	8.63
Bihar	55	10.78
Orissa**	105	20.59
Jharkhand	40	7.84
West Bengal	122	23.92
Sikkim *	67	13.14
Unallocated	77	15.10
Total	510	100

Sl.No.	Rammam St-III (120 MW)		
	State	MW	%
1	West Bengal	87.6	73.00
2	Sikkim	14.4	12.00
3	Unallocated	18	15.00
	Total	120	100

Teesta Low Dam-III(132 MW)		
State	MW	%
West Bengal	132	100
Total	132	100

Teesta Low Dam-IV(160MW)		
State	MW	%
West Bengal	160	100
Total	160	100

* Incluiding 12% free power to home stste.

** The allocation of Orissa would be subject to Orissa(GRIDCO) entering into a firm PPA with NHPC and complying with the payment security conditions with in one month from date of issue of this letter. (MOP Lr No.8/2/2000-DO (NHPC) Dt. 20.07.2000)

(MOP F.No.8/1/2002-NHPC Dt. 20.02.2008)

(MOP Lr No. 8/1/2003-NHPC(Vol.II) dated 20.12.2012)

(MOP Lr No.8/2/2003-NHPC(Vol.III) Dt. 10.06.2015)

B. Common Sector Projects

Sl.No.	Machkund (114 MW)		
	State	MW	%
1	Andhra Pradesh	80	70.18
2	Orissa	34	29.82
	Total	114	0

C. Foreign Projects

Sl.No.	Chukha(336 MW), Bhutan		
	State	MW	%
1	Bihar	69.5	25.74
2	D.V.C.	40.5	15.00
3	Orissa	36.4	13.48
4	West Bengal	78.6	29.11
5	Sikkim	4.5	1.67
6	Unallocated	40.5	15.00
	Total	270	100

NORTH EASTERN REGION

A. Central Sector Projects

Loktak (3x35 MW)			
S.No.	State	(MW)	(%)
1	Manipur	30.4	28.95
2	Assam	24.3	23.14
3	Tripura	12.1	11.52
4	Nagaland	6.1	5.81
5	Arunachal Pd.	5	4.76
6	Meghalaya	8.11	7.72
7	Mizoram	4	3.81
8	Unallocated	15	14.28
	Total	105	100

MOP Lr no.16/19/93-Do(NHPC) Dt.5.9.94

Doyang(3x25 MW)				
S.No.	State	(MW)	(%)	
1	Manipur	5	6.67	
2	Assam	28	37.33	
3	Tripura	5	6.67	
4	Nagaland	13	17.33	@
5	Arunachal Pd.	5	6.67	
6	Meghalaya	5	6.67	
7	Mizoram	3	4.00	
8	Unallocated	11	14.67	
	Total	75	100	

MOP Lr no.1/20/93-D(T&N)/Hydel-II Dt31.1.2000

@-Incluiding 9MW (12% free power)

Kopili (150MW)				
S. No.	State	(MW)	(%)	
1	Manipur	8.00	5.33	
2	Assam	74.50	49.67	*
3	Tripura	8.00	5.33	
4	Nagaland	9.00	6.00	
5	Arunachal Pd.	6.00	4.00	
6	Meghalaya	18.00	12.00	*
7	Mizoram	4.00	2.67	
8	Unallocated	22.50	15.00	
	Total	150	100	

MOP letter Dt 23.10.89

Kopili Extn (100MW)				
S.No.	State	(MW)	(%)	
1	Manipur	7.00	7.00	
2	Assam	44.00	44.00	*
3	Tripura	6.00	6.00	
4	Nagaland	5.00	5.00	
5	Arunachal Pd.	6.00	6.00	
6	Meghalaya	13.00	13.00	*
7	Mizoram	4.00	4.00	
8	Unallocated	15.00	15.00	
	Total	100	100	

MOP Lr.no.1/21/93-D(T&N) Hydel-II dt.11.2.97

* -Including 6% free power

Pare HEP (110 MW)			
S.No.	State	(MW)	(%)
1	Assam	37.28	33.89
2	Manipur	7.84	7.13
3	Meghalaya	9.27	8.43
4	Nagaland	5.23	4.75
5	Tripura	8.39	7.63
6	Arunachal Pr.	19.45	17.68
7	Mizoram	4.94	4.49
8	Local Area Dev.	1.1	1
9	Unallocated	16.5	15
	Total	110	100

Mop Letter No. 37/23/2010-H.I dated 24.05.2011

Subansiri Lower HE Project (2000 MW)

Allocation of Power			
SN	Region	%age allocation	Equivalent Power MW
a.	NER including free power to Home state (13%) & unallocated share to NE states at the disposal of Centre	50	1000
b.	Northern Region	25	500
c.	Western Region	25	500

Statewise allocation to NE states (Capacity allocated to NER 1000 (MW)

Free to Home states and unallocated share 28% of 2000MW ie 560 MW

Balance power to be shared among NE states 22% of 2000 MW i.e. 440 MW as under:

SNo	States	%age of allocation	Equivalent Power(MW)
1	Assam	47.27	208
2	Manipur	9.86	43
3	Maeghalaya	11.23	49
4	Nagaland	6.62	29
5	Tripura	11.03	49
6	Arunachal Pd	7.65	34*
7	Mizoram	6.34	28
	Total	100	440

*The entitled share of Arunachal Pradesh from Subansiri HEP would be allowed as soon as the State Regulatory Commission is set up in the State.

Statewise allocation to Northern states (total capacity to NR: 500 MW)

SNo	States	%age of allocation	Equivalent Power(MW)
1	Haryana	8.64	43
2	Punjab	12.76	64
3	Rajasthan	18.71	93
4	Uttar Pradesh	36.42	182
5	Chandigarh	0.92	5
6	Delhi	22.55	113
	Total	100	500

State-wise allocation to Western states (total capacity to WR: 500 MW)

Sl. No	States	%age of allocation	Equivalent Power(MW)
1	Gujarat	32.39	162
2	Madhya Pradesh	21.1	105
3	Chhattisgarh	8.44	42
4	Maharashtra	36.55	183
5	Goa	1.52	8
	Total	100	500

Kameng HE Project (600 MW)

Allocation of Power

SN	Region	%age allocation	Equivalent Power MW
a.	NER including free power to Home state (12%) & unallocated share to NE states at the disposal of Centre (15%)	50	300
b.	Northern Region	25	150
c.	Western Region	25	150

Statewise allocation to NE states (Capacity allocated to NER 300 MW)

Free to Home states and unallocated share 27% of 600MW ie 162 MW

Balance power to be shared among NE states 23% of 600 MW ie 138 MW as under:

SNo	States	%age of allocation	Equivalent Power(MW)
1	Assam	47.27	65
2	Manipur	9.86	14
3	Meghalaya	11.23	15
4	Nagaland	6.62	9
5	Tripura	11.03	15
6	Arunachal Pd	7.65	11*
7	Mizoram	6.34	9
	Total	100	138

* The entitled share of Arunachal Pradesh from Kameng HEP would be allowed as soon as the State Regulatory Commission is set up in the state.

Statewise allocation to Northern states (total capacity to NR: 150 MW)

SNo	States	%age of allocation	Equivalent Power(MW)
1	Haryana	8.64	13
2	Punjab	12.76	19
3	Rajasthan	18.71	28
4	Uttar Pradesh	36.42	55
5	Chandigarh	0.92	1
6	Delhi	22.55	34
	Total	100	150

Statewise allocation to Western states (total capacity to WR: 150 MW)

Sl. No	States	%age of allocation	Equivalent Power (MW)
1	Gujarat	32.39	48
2	Madhya Pradesh	21.1	32
3	Chhattisgarh	8.44	13
4	Maharashtra	36.55	55
5	Goa	1.52	2
	Total	100	150

The actual energy generated by the project after taking into account the auxiliary consumption and transformation losses, will be distributed among the beneficiary as per percentage allocation indicated above and allocation of unallocated power to the beneficiaries.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6355
ANSWERED ON 05.04.2018

UNDER CONSTRUCTION PROJECTS BY NTPC

6355. SHRI RAHUL SHEWALE:
SHRI SANJAY DHOTRE:
SHRI BHARTRUHARI MAHTAB:

Will the Minister of POWER
be pleased to state:

(a) the number of units of National Thermal Power Corporation (NTPC) and other public sector power generating companies constructed/under construction in the country during each of the last three years and the current year, State-wise;

(b) the number of persons displaced/ affected by the construction of such units in the country during the said period, State and Unit-wise;

(c) whether the said companies have rehabilitated all such displaced/affected persons under the resettlement and rehabilitation package in the country;

(d) if so, the details thereof, State and unit-wise and if not, the reasons therefor along with the time by which all the displaced/affected persons are likely to be rehabilitated; and

(e) the other steps taken by the Government for rehabilitation of such displaced/affected persons expeditiously across the country?

A N S W E R

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

(SHRI R. K. SINGH)

(a) : Details on power projects constructed and under construction by the Public Sector Power Generating Companies, including National Thermal Power Corporation (NTPC) are given at Annex-I and Annex-II respectively.

(b) to (e) : As per Rehabilitation and Resettlement (R&R) Policies of the Government of India and concerned State Government, a comprehensive project specific R&R plan, comprising of measures related to rehabilitation, resettlement and need based community development activities, in line with extant R&R policies is formulated in a consultative and participatory manner involving the stakeholders comprising of representatives from project affected families, District Administration and PSUs. The R&R plan is approved by the concerned State Government and implemented thereafter.
The status of Rehabilitation and Resettlement (R&R) status of Project Affected Person (PAPs) at constructed / under construction projects of NTPC during last 3 years & current year, State-wise and project-wise is given at Annex-III.

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 6355 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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Details of Power Projects constructed during the last three years and current year by PSUs including National Thermal Power Corporation (NTPC)

I. Thermal Projects

State	Project Name	Implementing Agency	Unit No	Actual capacity added (MW)
YEAR 2014-15				
Central Sector				
Bihar	Barh STPP-II	NTPC	U-5	660
Bihar	Muzaffarpur TPP Extn	KBUNL (JV of NTPC and BSEB)	U-3	195
TN	Neyveli TPS-II EXP	NLC	U-2	250
TN	Tuticorin TPP	NTPL (JV NLC & TANGEDCO)	U-1	500
Tripura	Tripura Gas	OTPS	Module-2	363.3
Tripura	Monarchak Gas Power Project	NEEPCO	GT	65.4
Tripura	Agartala CCPP	NEEPCO	ST-2	25.5
WB	Raghunathpur TPP Ph-I	DVC	U-1	600
STATE SECTOR				
AP	Damodaram Sanjeevaiah TPS	APPDL	U-1	800
AP	Damodaram Sanjeevaiah TPS	APPDL	U-2	800
Gujarat	Dhuvaran CCPP-III	GSECL	Block-1	376.1
Gujarat	Sikka TPS Extn	GSECL	U-3	250
Maharashtra	Chandrapur TPS	MSPGCL	U-8	500
Maharashtra	Koradi TPS Extn	MSPGCL	U-8	660
MP	Malwa TPP (Shree Singaji TPP)	MPGENCO	U-2	600
Rajasthan	Chhabra TPS Extn.	RRVUNL	U-4	250
Rajasthan	Kalisindh TPP	RRVUNL	U-1	600
Rajasthan	Ramgarh CCPP Extn. -III	RRVUNL	ST	50
YEAR 2015-16				
CENTRAL SECTOR				
Assam	Bongaigaon TPP	NTPC	U-1	250
Bihar	Nabi Nagar TPP	NTPC	U-1	250
Jharkhand	Bokaro TPS "A" Exp.	DVC	U-1	500
Maharashtra	Mouda STPP Ph-II	NTPC	U-3	660
MP	Vindhyachal TPP-V	NTPC	U-13	500
Tripura	Monarchak CCPP	NEEPCO	ST	35.6
TN	Tuticorin TPP	NLC	U-2	500
WB	Raghunathpur TPP,Ph-I	DVC	U-2	600
STATE SECTOR				
Gujarat	Sikka TPS	GSECL	U-4	250
Karnataka	Bellary TPS St-III	KPCL	U-3	700
Karnataka	Yermarus TPP	KPCL	U-1	800
Maharashtra	Chandrapur TPS	MSPGCL	U-9	500
Maharashtra	Koradi TPS Expn.	MSPGCL	U-9	660
Maharashtra	Parli TPS	MSPGCL	U-8	250
Rajasthan	Kalisindh TPP	RVUNL	U-2	600
Telangana	Singareni TPP	Singareni Collieries Co Ltd	U-1	600

Telangana	Kakatiya TPS Extn.	T GENCO	U-1	600
UP	Anpara-D TPS	UPRVUNL	U- 6	500
UP	Anpara-D TPS	UPRVUNL	U- 7	500
WB	Sagardighi TPS-Extn	West Bengal	U-3	500
YEAR 2016-17				
CENTRAL SECTOR				
Assam	Bongaigaon TPP	NTPC	U-2	250
Mahararashtra	Mauda STPP-II	NTPC	U-4	660
Bihar	Kanti TPS St-II	NTPC	U-4	195
Karnatka	Kudgi TPP	NTPC	U-1	800
Karnatka	Kudgi TPP	NTPC	U-2	800
Tripura	Agartala Gas Based Power Project	NEEPCO	ST-1	25.5
UP	Unchahar TPS St-IV	NTPC	U-6	500
STATE SECTOR				
Asam	Namrup CCGT	APGCL	GT	62.25
Chhastisgarh	Marwa TPS	CSPGCL	U-2	500
Gujrat	Bhavnagar TPP	BECL	U-1	250
Gujrat	Bhavnagar TPP	BECL	U-2	250
karnatka	Yermarus TPP	KPCL	U-2	800
Mahararashtra	Koradi TPP	MSPGCL	U-10	660
Telangan	Singreni TPP	SCCL	U-2	600
West Bengal	Sagardighi TPS-II	WBPDCL	U-4	500
YEAR 2017-18				
CENTRAL SECTOR				
Bihar	Nabi Nagar TPP	JV of NTPC &Rly	2	250.00
Chhattisgarh	Lara TPP	NTPC	1	800.00
Karnataka	Kudgi STPP Ph-I	NTPC	3	800.00
Maharashtra	Solapur STPP	NTPC	1	660.00
UP	Meja STPP	JV of NTPC & UPRVUNL	1	660.00
STATE SECTOR				
AP	Rayal seema TPP	APGENCO	6	600.00
Rajasthan	Chhabra SCTPP	RRVUNL	5	660.00
Bihar	Barauni Ext.	BSEB	8	250.00
Bihar	Barauni Ext.	BSEB	9	250.00
			TOTAL	29083.65

II. Hydro (Above 25 MW).

Sl. No.	Name of Project/ Installed Capacity (No.xMW)	State	Unit No.	Capacity (MW)
2014-15				
Central Sector				
1	Parabati-III, NHPC (4x130)	H.P.	4	130
2	Rampur, SJVNL (6x68.67)	H.P.	4	68.67
			3	68.67
			6	68.67
3	Kol Dam, NTPC (4x200)	H.P.	2	200
			1	200
2015-16				
Central Sector				
1	Kol Dam, NTPC, (4x200)	H.P.	3	200
			4	200
2	Teesta Low dam-IV, (4x40)	West Bengal	1	40
			2	40
State Sector				
2	Baglihar St.-II, JKPDC, (3x150)	J&K	1	150
			2	150
			3	150
3	Lower Jurala, TSGENCO, (6x40)	Telangana	1	40
			2	40
			3	40
			4	40

2016-17				
Central Sector				
1	Teesta Low dam-IV, (4x40)	West Bengal	3	40
			4	40
State Sector				
2	Kashang-I, HPPCL, (1x65)	HP	1	65
3	Lower Jurala, TSGENCO, (6x40)	Telangana	5	40
			6	40
4	Nagarjuna Sagar, APGENCO, (2x25)	Andhra Pradesh	1	25
			2	25
5	Pulichintala, TSGENCO, (4x30)	Telangana	1	30
			2	65
7	Teesta-III, Teesta Urja Ltd. (6x200)	Sikkim	3	200
			1	200
			5	200
			2	200
			6	200
			4	200
2017-18				
Central Sector				
1	Turial, NEEPCO, (2x30)	Mizoram	1	30
			2	30
2	Kishanganga , NHPC, (3x330)	J&K	1	110
			2	110
			3	110
State Sector				
3	New Umtru, MePGCL, (2x20)	Meghalaya	1	20
			2	20
4	Sainj, HPPCL, (2x50)	H.P.	1	50
			2	50
5	Pulichintala, TSGENCO, (4x30)	Telangana	2	30
			3	30
	TOTAL (2014-18)			4051

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ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 6355 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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Details of Under Construction Power projects of all PSUs including National Thermal Power Corporation (NTPC)

I. Thermal Projects

S.No.	State	Project Name / Implementing Agency	Unit No	Capacity (MW)
CENTRAL SECTOR				
1	*Assam*	Bongaigaon TPP/ NTPC	U-3	250
2	*Bihar*	Barh STPP-I /NTPC	U-1	660
			U-2	660
			U-3	660
3	*Bihar*	Nabi Nagar TPP / JV of NTPC & Rlys	U-3	250
			U-4	250
4	*Bihar*	New Nabi Nagar TPP /JV of NTPC & BSPGCL	U-1	660
			U-2	660
			U-3	660
5	*Chhatisgarh*	Lara STPP/NTPC	U-2	800
6	*Jharkhand*	North Karanpura STPP/ NTPC	U-1	660
			U-2	660
			U-3	660
7	*Maharashtra*	Solapur STPP/ NTPC	U-2	660
8	*MP*	Gadarwara STPP/ NTPC	U-1	800
			U-2	800
9	*MP*	Khargone STPP/ NTPC	U-1	660
			U-2	660
10	*Odisha*	Darlipalli STPP/ NTPC	U-1	800
			U-2	800
11	Rajasthan	Barsingsar TPP ext/NLC	U-1	250
12	Rajasthan	Bithnok TPP /NLC	U-1	250
13	Telangana	Telangana STPP St- I / NTPC	U-1	800
			U-2	800
14	*TN*	Neyveli New TPP/ NLC	U-1	500
			U-2	500
15	*UP*	Meja STPP/ JV of NTPC & UPRVUNL	U-2	660
16	*UP*	Ghatampur TPP/ JV of NLC & UPRVUNL	U-1	660
			U-2	660
			U-3	660
17	*UP*	Tanda TPP St II/ NTPC	U-1	660
			U-2	660
STATE SECTOR				
1	*A.P*	Dr.Narla Tata Rao TPS St-V / APGENCO	U-1	800
2	A.P	Sri Damodaran Sanjeevaiah TPP St-II / APGENCO	U-1	800
3	*Assam*	Namrup CCGT / APGCL	ST	36.15
4	*Gujarat*	Wanakbori TPS Extn. / GSECL	U-8	800
5	*Karnataka*	Yelahanka CCPP BY KPCL	GT+ST	370
6	*MP*	Shri Singhaji TPP St-II / MPGENCO	U-3	660
			U-4	660
7	*Odisha*	Ib valley TPP / OPGCL BTG	U-3	660
			U-4	660

8	*Rajasthan*	Chhabra TPP Extn./RRVUNL	U-6	660
9	*Rajasthan*	Suratgarh SCTPP/ RRVUNL	U-7	660
			U-8	660
10	*Telangana*	Kothagudem TPS St-VII/ TSGENCO	U-1	800
11	*Telangana*	Bhadradri TPP / TSGENCO	U-1	270
			U-2	270
			U-3	270
			U-4	270
12	*TN*	Ennore exp. SCTPP (Lanco) / TANGEDCO	U-1	660
13	*TN*	Ennore SCTPP / TANGEDCO	U-1	660
			U-2	660
14	*TN*	North Chennai TPP St-III TANGEDCO	U-1	800
15	*TN*	Udangudi STPP Stage I/ TANGEDCO	U-1	660
			U-2	660
16	*TN*	Uppur Super Critical TPP TANGEDCO	U-1	800
			U-2	800
17	*UP*	Harduaganj TPS Exp-II / UPRVUNL	U-1	660
18	*Telangana*	Yadadri TPS/TSGENCO	U-1	800
			U-2	800
			U-3	800
			U-4	800
			U-5	800
19	*UP*	Jawaharpur STPP/ UPRVUNL	U-1	660
			U-2	660
20	*UP*	Obra-C STPP/ UPRVUNL	U-1	660
			U-2	660
			TOTAL	42036.15

II. Hydro Projects (Above 25 MW)

Sl. No.	Name of Project / Installed Capacity	Unit No.	State/ Implementing Agency	Capacity (MW)
	Central Sector			
1	Pakal Dul 4x250= 1000 MW	U-1 to U-4	Jammu & Kashmir/ CVPPL (Joint Venture of NHPC, JKSPDC & PTC)	1000
2	Parbati St. II 4x200= 800 MW	U-1 to U-4	Himachal Pradesh/ NHPC	800
3	Tapovan Vishnugad 4x130=520 MW	U-1 to U-4	Uttarakhand / NTPC	520
4	Tehri PSS 4x250= 1000 MW	U-1 to U-4	Uttarakhand/ THDC	1000
5	Lata Tapovan 3x57= 171 MW	U-1 to U-3	Uttarakhand/ NTPC	171
6	Vishnugad Pipalkoti 4x111= 444 MW	U-1 to U-4	Uttarakhand/ THDC	444
7	Subansiri Lower 8x250= 2000 MW	U-1 to U-8	Arunachal Pradesh/ NHPC	2000
8	Kameng 4x150= 600 MW	U-1 to U-4	Arunachal Pradesh/ NEEPCO	600
9	Pare 2x55= 110 MW	U-1 to U-2	Arunachal Pradesh/ NEEPCO	110

10	Rammam III 3x40=120 MW	U-1 to U-3	West Bengal/ NTPC Ltd.	120
11	Naitwar Mori 2x30=60 MW	U-1 to U-2	Uttarakhand/ SJVNL	60
State Sector				
12	Parnai 3x12.5= 37.5 MW	U-1 to U-3	J&K/ JKSPDC	37.5
13	Lower Kalnai 2x24= 48 MW	U-1 to U-2	J&K/ JKSPDC	48
14	Shahpurkandi 3x33+3x33+1x8= 206 MW	U-1 to U-7	Punjab/ Irr. Deptt. & PSPCL	206
15	Uhl-III 3x33.33= 100 MW	U-1 to U-3	Himachal Pradesh/ Beas Valley Power Corp. Ltd. (BVPC)	100
16	Sawra Kuddu 3x37= 111 MW	U-1 to U-3	Himachal Pradesh/ HPPCL	111
17	Shongtong Karcham 3x150= 450 MW	U-1 to U-3	Himachal Pradesh/ HPPCL	450
18	Vyasi 2X60=120 MW	U- 1 & U- 2	Uttarakhand/ UJVNL	120
19	Koyna Left Bank PSS 2x40= 80 MW	U-1 to U-2	Maharashtra/ WRD, GO Mah.	80
20	Polavaram 12x80= 960 MW	U-1 to U-12	Andhra Pradesh/ Polavaram Project Authority	960
21	Pulichintala 4x30= 120 MW (90 MW Comm.)	U-4	Telengana/ TSGENCO	30
22	Pallivasal 2x30= 60 MW	U-1 to U-2	Kerala/ KSEB	60
23	Thottiyar 1x30 + 1x10= 40 MW	U-1 to U-2	Kerala/ KSEB	40
24	Kundah Pumped Storage Phase-I 1x125= 125 MW	U-1	Tamil Nadu/ TANGEDCO	125
			Total	9192.5

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ANNEX-III

ANNEX REFERRED TO IN REPLY TO PARTS (b) TO (e) OF UNSTARRED QUESTION NO. 6355 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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Rehabilitation and Resettlement (R&R) status of Project Affected Person (PAPs) at constructed / under construction projects of NTPC during last 3 years & current year, State-wise and project-wise

SN	State	Project	PAPs displaced & resettled (No.)	PAPs to be rehabilita-ted (No.)	Rehabilita-tion package paid to (No.)	Balance PAPs to be paid rehabilitation package (No.)	Remarks
1	Bihar	Barh	0	1884	1468	416	PAP list awaited from District Administration.
2	Chhattisgarh	Lara	9	2485	1832	653	In progress
3	HP	Koldam	0	16	16	0	Completed
4	Jharkhand	NKSTPP	612	2961	2714	247	In Progress
5	Karnataka	Kudgi	28	1435	1176	259	In Progress
6	Maharashtra	Mauda	0	0	0	0	Completed
7		Solapur	99	726	697	29	In Progress
8	MP	Gadarwara	0	797	797	0	Completed
9		Khargone	0	1254	1254	0	Completed
10	Odisha	Darlipali	241	362	340	22	In progress
11	Uttarakhand	Tapovan	0	0	0	0	Completed
12		LataTapovan	0	0	0	0	Completed
13	UP	Tanda-II	363	1238	609	629	In Progress
14	West Bengal	Rammam III	48	377	327	50	In progress
			1400	13535	11230	2305	
Joint Venture Projects							
15	Bihar	BRBCL (JV)	07	1745	7	1738	In progress
16		NPGC (JV)	103	3000	394	2606	In progress.
17		Kanti	130	1360	1360	0	Completed
18	Odisha	Rourkela (JV)	0	0	0	0	Land not acquired
19		Durgapur (JV)	0	0	0	0	Land not acquired
20	UP	Meja (JV)	132	985	985	0	Completed
			372	7090	2746	4344	
		Grand Total	1772	20625	13976	6649	

* NTPC did not acquire any land for Bongaigaon Project as the Project was transferred to NTPC from State Government.

* For Solar projects set up in solar parks, NTPC was not having any role in the acquisition of land as the same was done by respective State Governments.

* No persons have been displaced/affected by construction of 50 MW Rojmal Wind Power Project.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6375
ANSWERED ON 05.04.2018

ACCESS TO ELECTRICITY

6375. DR. ANSHUL VERMA:

Will the Minister of POWER
be pleased to state:

(a) whether every household in the electrified villages towns and cities have access to electricity and if so, the details thereof and if not, the reasons therefor;

(b) the average hours for which electricity is provided in villages, towns and cities per day, State-wise;

(c) the average power consumption per household in villages, towns and cities, State-wise; and

(d) the steps taken by the Government to ensure continuous electricity supply in villages, towns and cities during the last two years?

A N S W E R

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

(SHRI R. K. SINGH)

(a) : The Central Government is providing assistance to the States under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) for creation of necessary infrastructure for rural electrification. Government of India has launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – Saubhagya to achieve universal household electrification. The scheme provides last mile connectivity and electricity connections to all un-electrified households in rural and all poor un-electrified households in urban areas. All remaining un-electrified households are targeted for electrification by March, 2019.

(b) : As reported, average power supply hours in rural areas is given at Annexure-I.

(c) : The State-wise per capita consumption for the last three years is given at Annexure-II.

(d) : Government of India has taken a joint initiative with all the States/UTs for providing 24x7 power for all households, industrial & commercial consumers and adequate supply of power to agricultural consumers as per State policy. All the State Governments and Union Territories have signed the “24x7 Power For All” document to provide electricity to all from 1st April, 2019. In addition, Government of India supplements the efforts of the States through its schemes including Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY); Integrated power Development Scheme (IPDS) and Pradhan Mantri Sahaj Bijli Har Ghar Yojana – Saubhagya.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 6375 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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Status of Power Supply to Rural Areas

MONTH : JANUARY 2018

Sl. No.	Name of the State	Average hours of power supply in a day to rural areas
1	Andhra Pradesh	23.99
2	Arunachal Pradesh	14.30
3	Assam	18.33
4	Bihar	16.45
5	Chhattisgarh	23.00
6	Gujarat	24.00
7	Haryana	14.91
8	Himachal Pradesh	24.00
9	Jammu & Kashmir	13.5
10	Jharkhand	18.13
11	Karnataka	19.81
12	Kerala	23.00
13	Madhya Pradesh	23.71
14	Maharashtra	23.32
15	Manipur *	22.38
16	Meghalaya	21.50
17	Mizoram	11.50
18	Nagaland *	20.00
19	Odisha	20.75
20	Punjab	24.00
21	Rajasthan	22.00
22	Sikkim	17.5
23	Tamil Nadu	24.00
24	Telangana	24.00
25	Tripura	23.50
26	Uttar Pradesh *	17.72
27	Uttarakhand *	23.00
28	West Bengal	24.00

** Nagaland, UP & Manipur December, 2017 month data Uttarakhand January, 2017 month data has been included.*

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 6375 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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State-wise PER CAPITA POWER CONSUMPTION (Units) (Source- CEA General Review)

Name of the State/UT/REG.	2014-15	2015-16	2016-17
Chandigarh	1052	1112	1128
Delhi	1561	1557	1574
Haryana	1909	1936	1975
Himachal Pradesh	1336	1339	1340
Jammu & Kashmir	1169	1234	1282
Punjab	1858	1919	2028
Rajasthan	1123	1164	1166
Uttar Pradesh	502	524	585
Uttarakhand	1358	1431	1454
Sub-Total (N R)	927	957	1003
Chhattisgarh	1719	2022	2016
Gujarat	2105	2248	2279
Madhya Pradesh	813	929	989
Maharashtra	1257	1318	1307
Daman & Diu	6960	7836	7965
D. & N. Haveli	13769	15137	15783
Goa	1803	2738	2466
Sub-Total (W R)	1393	1515	1533
Andhra Pradesh	1040	1230	1319
Telangana	1356	1439	1551
Karnataka	1211	1242	1367
Kerala	672	704	763
Tamil Nadu	1616	1688	1847
Puducherry	1655	1672	1784
Lakshadweep	657	649	633
Sub-Total (S R)	1271	1316	1432
Bihar	203	258	272
Jharkhand	835	884	915
Odisha	1419	1564	1622
West Bengal	647	660	665
Sikkim	685	687	806
A.& N. Islands	361	355	370
Sub-Total (E R)	618	675	694
Arunachal Pradesh	525	600	648
Assam	314	322	339
Manipur	295	360	326
Meghalaya	704	835	832
Mizoram	449	503	523
Nagaland	311	346	345
Tripura	303	329	470
Sub-Total (N E R)	338	369	392
Total All India	1010	1075	1122

Per Capita Consumption=(Gross Energy Generation+Net Import)/Mid Year Population.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6377
ANSWERED ON 05.04.2018

ELECTRIFICATION OF VILLAGES IN JHARKHAND

†6377. SHRI JANAK RAM:

Will the Minister of POWER
be pleased to state:

(a) the total number and details of such villages in various States of the country which have remained un-electrified so far, State-wise;

(b) the total number of villages of Palamu and Garhwa districts of the State of Jharkhand which remained un-electrified so far; and

(c) the time by which the work of electrifying these villages will be completed?

A N S W E R

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

(SHRI R. K. SINGH)

(a) to (c) : As reported by the States, there were 18,452 un-electrified census villages in the country as on 01.04.2015. Only 323 census villages remained un-electrified as on 01.04.2018. It is targeted to electrify all the remaining un-electrified census villages by 1st May, 2018. State-wise details, is given at Annexure.

As informed by the Government of Jharkhand, there were 2525 un-electrified census villages in the State, including in the districts Palamu and Garhwa on 1st April, 2015; which have been electrified excluding 58 villages found un-inhabited.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 6377 ANSWERED IN THE LOK SABHA ON 05.04.2018.

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State-wise status of unelectrified villages

Sl. No	States	Unelectrified villages as on 01.04.2018 (out of 18,452 reported on 01.04.2015)
1	Arunachal Pradesh	205
2	Chhattisgarh	33
3	Jammu & Kashmir	66
4	Madhya Pradesh	3
5	Odisha	3
6	Uttarakhand	13
Total		323

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6409
ANSWERED ON 05.04.2018

ELECTRICITY SUPPLY MECHANISM

†6409. SHRI CHANDRA PRAKASH JOSHI:

Will the Minister of POWER
be pleased to state:

(a) the proposal of the Government to improve the electricity supply mechanism in the country and to reduce transmission losses;

(b) the number of new grid sub- stations constructed across the country during the last three years; and

(c) the names of the villages selected for 24 hour power supply in Rajasthan after the setting up of the said grid sub stations and the number of villages getting such benefit?

A N S W E R

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

(SHRI R. K. SINGH)

(a) : Government of India has made several interventions such as IT enablement of distribution infrastructure, feeder metering, feeder segregation and monitoring of AT&C loss trajectories through various schemes such as Integrated Power Development Scheme (IPDS), Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and Ujwal DISCOM Assurance Yojana (UDAY) to enable States to improve their electricity supply mechanisms. Losses of Extra High Voltage (EHV) transmission system managed by POWERGRID are of the order of 2-3%. Transmission system is continuously augmented to transfer power with minimum transmission losses.

(b) : A total of 615 new grid sub-stations has been commissioned during the last three years i.e. 2015-16, 2016-17 & 2017-18 (up to 28.02.2018).

(c) : Government of India have taken up a joint initiative with all States/UTs including Rajasthan for providing “24x7 Power For All” (PFA) to all households, industrial & commercial consumers and adequate supply of power to agricultural consumers, as per State policy, from April 2019.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6412
ANSWERED ON 05.04.2018

ENERGY EFFICIENT BUILDINGS

6412. SHRI VENKATESH BABU T.G.:

Will the Minister of POWER
be pleased to state:

(a) whether any proposal is under consideration of the Government to make all existing and future Government as well as commercial buildings in the country energy efficient;

(b) if so, the details thereof and the estimated quantity and value of power savings as a result of this proposal; and

(c) the time by which the above proposal is likely to be implemented?

A N S W E R

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

(SHRI R. K. SINGH)

(a) to (c) : Making all buildings, including existing and future Government and Commercial buildings as energy efficient is an ongoing process. Towards this end, the Government of India has taken the following initiatives:-

(i) Bureau of Energy Efficiency (BEE) has published the Energy Efficient Building Code – 2017 (ECBC-2017) which provides guidelines for design and construction of energy efficient buildings. This code is applicable to commercial buildings having a connected load of 100 kW or above or contract demand of 120 kVA or above. Respective authorities including State Governments and Union Territories have been advised to implement this code.

(ii) Government of India has mandated installation of LED based lighting and energy efficient appliances in all Government buildings. This has been taken up for implementation in Central Government buildings across the country through respective Ministries/Departments.

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(iii) The Ministry of Housing and Urban Affairs has released Model Building Bye Laws 2016 (MBBL-2016), which advocates various norms for green buildings including the provisions of making buildings energy efficient. The MBBL has been circulated to all States/UTs for adoption.

Upto 31st March, 2018, Energy Efficiency Services Limited (EESL), which is a joint venture of PSUs under the Ministry of Power, has completed building energy efficiency projects in 1346 buildings, resulting in energy savings of over 64.97 million kWh and cost savings of Rs. 68.21 crore. In addition, several Ministries/Departments, including their attached/subordinate offices are also getting their buildings converted into energy efficient buildings by retrofitting of LED based lights and energy efficient appliances, through other agencies, like the Central Public Works Department (CPWD) and Military Engineer Services (MES) etc. These efforts will also lead to additional energy and cost savings.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6413
ANSWERED ON 05.04.2018

SPENDING UNDER CSR

6413. SHRI B.V. NAIK:

Will the Minister of POWER
be pleased to state:

(a) the quantum of funds spent by various companies in the Ministry under Corporate Social Responsibility (CSR) during the last three years;

(b) the details of the amount spent during the above years, State-wise, district- wise and work-wise;

(c) whether less funds have been issued to Karnataka under CSR during the above period due to which people have received less benefits; and

(d) if so, the details thereof and the reasons therefor?

A N S W E R

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

(SHRI R. K. SINGH)

(a) : The details on funds spent by various Central Public Sector Undertakings (CPSUs) under the Ministry of Power under Corporate Social Responsibility (CSR) during the last three years are given at Annex.

(b) to (d) : The CPSUs under the Ministry of Power, under CSR, incur expenditure on various activities which are broadly categorized as under:

i. Promotion of education and skills development
ii. Health and family welfare
iii. Drinking water and sanitation
iv. Entrepreneurship Development
v. Women empowerment
vi. Environment protection
vii. Sports, art, culture and heritage
viii. Rural development
ix. Local area development
x. Infrastructure development

Information on state-wise and district-wise distribution of funds spends under CSR, including in the state of Karnataka, is being collected and will be laid on the Table of the House.

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ANNEX

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 6413 ANSWERED IN THE LOK SABHA ON 05.04.2018

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The quantum of funds spent by CPSUs under Ministry of Power under Corporate Social Responsibility (CSR) during the last three years:

(Rs. in Lacs)

Sl. No.	Name of the CPSE	CSR amount spent/disbursed during the last three years		
		2014-15	2015-16	2016-17
1	North Eastern Electric Power Corporation Limited (NEEPCO)	962.47	1030.58	607.58
2	Tehri Hydro Development Corporation India Limited (THDCIL)	2909.00	1335.00	1534.84
3	Satluj Jal Vidyut Nigam Limited (SJVNL)	2483.00	2887.00	3716.12
4	National Hydro Power Corporation Limited (NHPC)	5223.94	7267.58	7581.87
5	Power Finance Corporation (PFC)	5168.25	19552.40	12585.08
6	Powergrid Corporation of India Limited (PGCIL)	4741.58	11594.03	14728.95
7	National Thermal Power Corporation Limited (NTPC)	20517.00	49181.00	27781.00
8	Rural Electrification corporation (REC)	10178.29	12349.43	6670.00

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6415
ANSWERED ON 05.04.2018

ELECTRICITY TO ALL VILLAGES

6415. SHRI RAVINDRA KUMAR PANDEY:
SHRI NISHIKANT DUBEY:

Will the Minister of POWER
be pleased to state:

(a) whether Government is determined to provide electricity to all villages in the country under the Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY);

(b) if so, the details thereof;

(c) the number of un-electrified villages in the country and the number of such un-electrified villages in Jharkhand; and

(d) the steps being taken by the Government to provide electricity to all the remaining villages?

A N S W E R

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

(SHRI R. K. SINGH)

(a) to (d) : Government of India, under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), has targeted to electrify all the remaining un-electrified census villages across the country. As reported by States, there were 18,452 un-electrified census villages in the country, as on 01.04.2015. Only 323 census villages remained un-electrified as on 01.04.2018. It is targeted to electrify remaining un-electrified census villages by 1st May, 2018.

The State of Jharkhand has reported 2525 un-electrified census villages, as on 1st April, 2015; and these have now been electrified excluding 58 villages found un-inhabited.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6429
ANSWERED ON 05.04.2018

HYDRO POWER PLANTS IN KERALA

6429. SHRI JOSE K. MANI:

Will the Minister of POWER
be pleased to state:

(a) whether majority of hydro power plants in the State of Kerala, which all together account for about 50 per cent of the total power generated in the State, have crossed their useful life and are running without renovation and modernization, if so, the details thereof;

(b) whether the Kerala State Electricity Board has sought more funds from the Central Electricity Regulatory Commission to cover for the increased operation and maintenance costs of the hydro power plants; and

(c) if so, the details thereof and the reaction of the Commission thereto?

A N S W E R

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

(SHRI R. K. SINGH)

(a) : The list of hydro power plants with station capacity of greater than 25 MW which have crossed their useful life and are running after Renovation and Modernization (R&M) is given below:

Sl. No.	Name of Project	Capacity (MW)	Category	Year of Completion of R&M works
1.	Pallivasal	37.5	Renovation Modernisation & Life Extension (RM&LE)	2002-03
2.	Sengula	48	RM&LE	2002-03
3.	Panniar	30	RM&LE	2002-03
4.	Neriamangalam	70	Renovation Modernisation Uprating & Life Extension (RMU&LE)	2006-07
5.	Sabarigiri	300	RM&U	2014-15
6.	Poringalkuthu	32	RMU&LE	2015-16

R&M works are in progress in the Idukki Stage-I Units and Sholayar HEP. Tender for R&M of Kuttiyadi HEP is already floated. Idukki Stage-II is planned (scheduled for R&M during 2022-27).

(b) & (c) : Kerala State Electricity Board Ltd. & Kerala State Electricity Regulatory Commission have not sought any funds from Central Electricity Regulatory Commission (CERC) to cover for the increased operation & maintenance costs of the Hydro Power Plants.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6432
ANSWERED ON 05.04.2018

SOLAR ENERGY TO REMOTE VILLAGES

6432. SHRI DUSHYANT CHAUTALA:

Will the Minister of POWER
be pleased to state:

(a) the details of total number of remote villages covered under Rural Electrification scheme;

(b) whether the Government has also included remote villages under this scheme for 100% electrification through solar energy based power units in those villages; and

(c) if so, the details thereof and the total number of villages equipped with solar energy based power units to achieve the target of rural electrification?

A N S W E R

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

(SHRI R. K. SINGH)

(a) to (c) : All the un-electrified census villages in the country, including remote villages, are targeted for electrification under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) either through on-grid or off-grid mode. As on 27.03.2018, 4,375 Decentralized Distribution Generation (DDG) solar energy based projects covering 3,377 villages have been sanctioned across the country. Out of this, 2,321 DDG projects covering 1,446 villages have already been commissioned.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.6437
ANSWERED ON 05.04.2018

BACK-END INFRASTRUCTURE COST UNDER SAUBHAGYA

6437. SHRIMATI RITA TARAI:

Will the Minister of POWER
be pleased to state:

(a) whether the Government is aware of the fact that the SAUBHAGYA scheme does not provide for any back-end system infrastructure improvement (HT network including 11 KV/33 KV lines, Transformer etc.) whereas the earlier central schemes like RGGVY and DDUGJY scheme provided assistance for this purpose, if so, the details thereof; and

(b) whether the Government is considering the provision of back-end infrastructure cost under SAUBHAGYA scheme as followed under RGGVY & DDUGJY schemes, if so, the details thereof?

A N S W E R

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

(SHRI R. K. SINGH)

(a) & (b) : Government of India have launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – Saubhagya with the objective to achieve universal household electrification. Projects have been sanctioned to the States under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) including RE component for strengthening electricity infrastructure for village electrification and efficient rural distribution system through feeder segregation, creation of sub-stations of adequate capacity together with 33 KV lines, distribution transformers and 11 KV & LT lines of adequate capacity in each village. Thus DDUGJY provides necessary back-end system infrastructure for Saubhagya. Saubhagya provides for the last mile connectivity and free electricity connections to all households in rural and all poor households in urban areas.

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