

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
STARRED QUESTION NO.467
BE ANSWERED ON 25.07.2019**

ERRATIC POWER SUPPLY BY POWER DISTRIBUTION COMPANIES

**†*467. SHRI JANARDAN MISHRA:
SHRI RODMAL NAGAR:**

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

- (a) whether the Government has formulated any scheme to avoid erratic power supply by the power distribution companies even after carrying out the maintenance before the rainy season;**
- (b) if so, the details thereof;**
- (c) if not, the measures being taken by the Government to avoid such erratic power supply; and**
- (d) the details of action taken by the Government against such companies for irregular supply of power?**

A N S W E R

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

(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. 467 ANSWERED IN THE LOK SABHA ON 25.07.2019 REGARDING ERRATIC POWER SUPPLY BY POWER DISTRIBUTION COMPANIES.

(a) to (d) : The distribution of electricity, including maintenance of infrastructure falls under the purview of the respective State Governments/ Distribution utilities, and the State Electricity Regulatory Commissions (SERCs).

The Government of India, as per Section 57(1) and 57(2) of the Electricity Act 2003, has empowered the SERCs to specify the Standards of performance (SoP) of a licensee or a class of licensees, with provisions for suitable compensation in case of non-adherence. Further, as per Section 86 (1) (i), SERCs shall specify or enforce Standards with respect to the quality, continuity and reliability of service by Licensees. The Central Electricity Authority (Measures relating to safety and Electric Supply) Regulations 2010 also provides measures for empowering technicians with training on pre-monsoon maintenance of transmission and distribution lines.

Further, the Government of India has been assisting States through various schemes including Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and Integrated Power Development Scheme (IPDS) for strengthening the sub-transmission and distribution networks, metering, IT enablement, segregation of feeders etc. to enable 24X7 reliable power supply for all.

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5260
ANSWERED ON 25.07.2019**

TARIFF RATIONALISATION IN POWER SECTOR

5260. DR. (PROF.) KIRIT PREMJBHAI SOLANKI:

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

- (a) the States/UTs where the Ujwal DISCOM Assurance Yojana (UDAY) is currently running and the quantum of funds distributed to these States/UTs including Gujarat, for the current financial year;**
- (b) whether the UDAY has resulted in decrease in the Aggregate Technical and Commercial Losses (AT&C) in the power discoms and if so, the details thereof;**
- (c) the steps taken by the Government under UDAY to ensure tariff rationalisation the power sector; and**
- (d) the details of the States/UTs who have revised tariffs in the current year?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) : Ujwal DISCOM Assurance Yojana (UDAY) is being implemented in 27 States and 05 Union Territories (UTs), namely, Andhra Pradesh, Arunachal Pradesh, Assam, Andaman & Nicobar Islands, Bihar, Chhattisgarh, Dadra & Nagar Haveli, Daman & Diu, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Lakshadweep, Maharashtra, Manipur, Madhya Pradesh, Meghalaya, Mizoram, Nagaland, Punjab, Puducherry, Rajasthan, Sikkim, Tamil Nadu, Telangana, Tripura, Uttar Pradesh and Uttarakhand. There is no provision of funding to States/UTs under UDAY.

(b) : As per data provided by States/UTs on UDAY Portal, Aggregate Technical & Commercial (AT&C) losses have come down from 20.80% in FY 2015-16 to 18.24% in FY 2018-19. Details are at Annexure.

(c) : Tariff is determined by the respective State Electricity Regulatory Commissions (SERC)/Joint Electricity Regulatory Commissions (JERCs). UDAY provided for necessary changes in the Tariff Policy in regard to Tariff. Tariff Policy notified in January, 2016 provided that in order to achieve the objective of tariffs progressively reflecting the cost of supply of electricity, Appropriate Commission would notify a roadmap indicating that tariffs are brought within $\pm 20\%$ of average cost of supply with a gradual reduction in cross subsidy.

(d) : As per information available, the States/UTs of Andman & Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chandigarh, Chhattisgarh, Dadar & Nagar Haveli, Daman & Diu, Goa, Gujarat, Haryana, Jharkhand, Karnataka, Lakshadweep, Maharashtra (Mumbai-BEST), Manipur, Mizoram, Punjab, Puducherry, Sikkim and Uttarakhand have revised tariffs in FY 2019-20.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 5260 ANSWERED IN THE LOK SABHA ON 25.07.2019.

State/UT-wise details of achievement of AT&C losses under UDAY

(in % age)

Sl. No	Parameter	FY2015-16	FY2018-19
1.	Andhra Pradesh	9.41	13.41
2.	Assam	25.51	21.14
3.	Bihar	43.74	27.39
4.	Chhattisgarh	21.79	23.28
5.	Daman and Diu	13.25	9.37
6.	Goa	17.12	26.03
7.	Gujarat	15.04	12.59
8.	Haryana	29.83	17.45
9.	Himachal Pradesh	12.92	8
10.	Jammu & Kashmir	61.6	49.76
11.	Jharkhand	34.71	31.95
12.	Karnataka	14.94	14.1
13.	Kerala	16.03	10.83
14.	Madhya Pradesh	23.97	31.9
15.	Maharashtra	19.07	16.94
16.	Manipur	44.21	22.55
17.	Meghalaya	36.48	37.76
18.	Puducherry	19.88	16.41
19.	Punjab	15.9	12.04
20.	Rajasthan	30.41	21.29
21.	Tamil Nadu	14.58	14.02
22.	Telangana	13.95	11.77
23.	Tripura	20.94	15.24
24.	Uttar Pradesh	26.47	24.64
25.	Uttarakhand	17.19	12.64
	UDAY State Average	20.8	18.24

Note: Above data is based on provisional / unaudited data entered by States/DISCOMs on UDAY portal.

**GOVERNMENT OF INDIA
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**LOK SABHA
UNSTARRED QUESTION NO.5272
ANSWERED ON 25.07.2019**

NATIONAL POWER GRID LINKAGES

5272. SHRI PRADYUT BORDOLOI:

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

- (a) **the status of the National Power Grid Linkages covering whole of the North-East region with that of the rest of the country; and**
- (b) **the reasons for providing the entire assignment of construction of grid connectivity to Power Grid Corporation of India Limited (PGCIL) instead of other competent State level grid companies such as Assam Electricity Grid Corporation Limited?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) : **Indian Power System is divided into five (5) regions namely Northern Region, Southern Region, Eastern Region, Western Region and North Eastern Region (NER). The inter-regional (IR) transmission links between regions enable smooth flow of power from surplus regions to deficit regions. At present all the five regional grids are interconnected through synchronous links forming one Nation-one Grid-one frequency-one market. The inter-regional power transmission capacity of the National Grid is 99,050 MW (as on March 2019). North Eastern region is connected to rest of the country through various transmission links as under:**

- (i) **±800kV Biswanath Chariali - Alipurduar - Agra multi terminal HVDC Bipole line**
- (ii) **400kV Alipurduar - Bongaigaon high capacity D/c line**
- (iii) **400kV Siliguri - Bongaigaon D/c line**
- (iv) **220kV Birpara - Salakati D/c line**

(b) : **The transmission systems that are in place in the country consist of Inter-State Transmission System (ISTS) and Intra State Transmission System (Intra-STs).**

Since January 2011, ISTS transmission schemes, are being implemented either through the Tariff based Competitive Bidding (TBCB) process or under cost-plus mechanism with Regulated Tariff Mechanism (RTM), in accordance with provisions of the Tariff Policy. Accordingly, the ISTS are developed either by POWERGRID or by the successful bidder in case of TBCB projects. POWERGRID also participates as bidder for TBCB projects.

The Intra-State Transmission System is generally developed by State Transmission Utilities / Intra-state transmission licensees in a State such as Assam Electricity Grid Corporation Limited in respect of intra-state transmission system for the state of Assam.

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5287
ANSWERED ON 25.07.2019**

ONGOING POWER PROJECTS

5287. SHRI A. RAJA:

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

- (a) the details of the ongoing power projects within the country including Tamil Nadu;**
- (b) the funds sanctioned, allocated and utilised under these projects during the last three years and the current year across the country including Tamil Nadu;**
- (c) the details of the cost fixed initially for these projects along with the target set for completing the projects;**
- (d) whether some of the projects are facing huge cost/time overrun;**
- (e) if so, the details thereof and the reasons therefor along with the action taken by the Government for timely completion of these projects in future without cost overrun; and**
- (f) the time by which the said projects are likely to be completed?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) to (f) : At present 36 nos. of Hydro-electric projects (above 25 MW) aggregating to 12034.5 MW and 67 nos. of thermal power projects aggregating to 63676.15 MW are under construction in the country including Tamil Nadu. The details of the original/sanctioned cost & expenditure incurred during the last three years and the current year along with original/anticipated commissioning schedules as well as reasons for time and cost overrun in respect of the under construction Hydro-electric projects are given at Annexure-I.

In respect of Thermal Power Projects, as per Section 7 of the Electricity Act, 2003, “any generating company may establish, operate and maintain a generating station without obtaining a license/permission under this Act, if it complies with the technical standards relating to connectivity with the grid. Accordingly, sanction of the Government is not required for setting up of thermal power projects.”

The details of original cost, commissioning schedule along with anticipated revised cost and schedule of completion, and reasons for delay in respect of under construction thermal projects are given in Annexure-II.

The steps being taken for timely completion of these power projects are as given below:

- (i) Ministry of Power/Central Electricity Authority (CEA) monitors the process of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers. CEA holds review meetings periodically with the developers and other stakeholders and identify issues critical for commissioning of projects and help in resolving them.**
- (ii) Regular reviews are also undertaken by Ministry of Power, Ministry of Heavy Industries and Cabinet Secretariat to identify the constraint areas and facilitate faster resolution of inter-ministerial and other outstanding issues.**
- (iii) In case of Central Power Sector Undertakings (CPSUs) projects, the project implementation parameters/ milestones are incorporated in the annual MoU signed between respective CPSU's and MoP and the same are monitored during the quarterly performance review meeting of CPSU's and other meetings held in MoP/CEA.**
- (iv) Matters are taken up with State Government/District Administration for extending help to the project implementing agencies in resolving Right of Way (ROW) issues.**
- (v) As and when required, issues are also reviewed in the PRAGATI portal of PMO for proactive governance and timely implementation.**

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (f) OF UNSTARRED QUESTION NO.5287 ANSWERED IN THE LOK SABHA ON 25.07.2019.

Details of under construction Hydro Electric Projects (above 25 mw) including cost and expenditure details with time/cost overrun during last three years and current year

Sl. No	Name of Project & State	Capacity (MW)	Commissioning Schedule		Cost (Rs. Crore)		Expenditure (Rs. Crore)		Reasons for Time and Cost Overrun
			Original	Anticipated	Sanctioned	Anticipated	Last 3 years (2016-19)	During 2019-20 (Month)	
Central									
1	Pakal Dul (CVPPL) J&K	1000	Apr-20	Aug-23	8112.12	8112.12	1086.32		* Delay in award of works
2	Parbati -II(NHPC) H.P.	800	Sep-09	Dec-21	3919.59	8398.76	1687.45	42.11 (Apr-19)	* 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. * Cash flow issues with civil contractors.
3	Tehri PSP (THDC), Uttarakhand	1000	Jul-10	Jun-22	1657.6	4401.9	1085.77	77.52 (Apr-19)	* 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 Layout of machine hall due to poor geology. * Works stalled since April, 2018 due to funds constraints with contractor

4	Tapovan Vishnugad (NTPC) Uttarakhand	520	May-13	Dec-20	2978.48	3846.3	1150.2		* 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.* Cash flow issues with civil contractors.
5	Lata Tapovan (NTPC) Uttarakhand	171	Aug-17	Subject to restart of works (4 years)	1527	1801.07	6.16		* 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..
6	Vishnugad Pipalkoti (THDC) Uttarakhand	444	Jun-13	Dec-22	2491.58	3789.61	780.32	35.78 (Apr-19)	* 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.
7	Ramam-III (NTPC) West Bengal	120	Sep-19	Feb-22	1381.84	1592.34	255.14		* Delay in getting permission for tree felling from Govt. of West Bengal for Access road from Adit-1 to Adit-2. * Cash flow issues with civil contractors. * Strike / bandh during Gorkhaland agitation.
8	Subansiri Lower (NHPC) Ar. Pradesh/ Assam	2000	Sep-10	Subject to restart of works (4 years)	6285	18064	2355.53	60.3 (Apr-19)	* 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. * Case in NGT.

9	Kameng (NEEPCO) Ar. Pradesh	600	Dec-09	Dec-19	2496.9	6179.96	2473.54	82.75 (Apr-19)	<ul style="list-style-type: none"> * Change in dam parameters. * Slow progress in dam & HRT due to bad geology, heavy seepage, inadequate machinery. * Flash flood in Oct. 08 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. * Leakage from penstocks & rectification of defects. * Cash flow issues with civil contractor
10	Naitwar Mori (SJVN) Uttarakhand	60	2021-22	2021-22	648.33	648.33	98.31		
11	Teesta St. VI (NHPC) Sikkim	500	Mar-24	Subject to restart of works (5 years)	5748.04	5748.04	907		<ul style="list-style-type: none"> * Poor geology. * Land acquisition. * Contractual issues * Funds constraints with developer (Private) and stalled since April, 2014 * M/s.LTHPL came under Corporate Insolvency Resolution Process. NHPC Ltd. emerged as H1 bidder. CCEA approval was accorded to NHPC on 08.03.2019.
State									
12	Parnai J&K	37.5	Jan-18	Mar-22	640	640	189.62	3.11 (May-19)	<ul style="list-style-type: none"> * Slow progress of works. * Delay in Land acquisition.
13	Lower Kalnai J&K	48	Sep-17	Subject to restart of works (4 years)	577	576.87	36.31		<ul style="list-style-type: none"> * 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.

14	Uhi-III H.P.	100	Mar-07	Jan-20	431.56	1281.52	343.49		<ul style="list-style-type: none"> * 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.
15	Sawara Kuddu H.P.	111	Dec-12	Mar-20	558.53	1181.9	293.35		<ul style="list-style-type: none"> * Delay in MOEF clearance. * Delay in award of Civil & E&M works. * Poor geology in HRT. * Slow progress of HRT Lining. * Contractual issues. * Contract for HRT package terminated on 9.1.14. Re-awarded in Nov,2014 to M/s. HCC.
16	Shontong Karcham H.P.	450	Mar-17	Apr-24	2807.83	3316.35	304.34		<ul style="list-style-type: none"> * Shifting of Army Ammunition Depot. * Local Issues.
17	Vyasi Uttarakhand	120	Dec-14	Jun-20	936.23	936.23	641.8		<ul style="list-style-type: none"> * Delay in award of works. * Local Issues.
18	Shahpurkandi Punjab	206	2015-16	Nov-21	2286	2715.7	662		<ul style="list-style-type: none"> * 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.
19	Koyna Left bank PSS Maharashtra	80	Oct-14	Subject to restart of works (4 years)	245.02	691.95 Power component	145.97		<ul style="list-style-type: none"> * Slow progress of works. * Fund constraints due to increase in project cost. RCE under approval.
20	Indrasagar Polavaram (PPA) Andhra Pradesh	960	-	-	3013.68	5338.95	758.18		
21	Pallivasal (KSEB) Kerala	60	Mar-11	Dec-21	283.19	550	83.84		<ul style="list-style-type: none"> * Slow progress of civil works. * Delay in land acquisition. * Change in alignment of Adit to HRT. * Poor geology strata in HRT. * Heavy Monsoon * Works stopped by contractor since 28.1.15 to 11.04.2017 due to contractual issues. * Contract terminated on 13.09.2018. Matter in Hon'ble High Court of Kerala.

22	Thottiyar (KSEB) Kerala	40	Apr-12	Dec-20	145.47	280	10.74		<ul style="list-style-type: none"> * Land acquisition issue. * The works of weir and approach channel stopped from 2010 to 2012 by local people. * The work stopped by Court from 12.12.2012 to April-2013. * Contractual issues. * Financial crunch with contractor. * Foreclosure of earlier contract in April,2017 and balance works re-awarded in January, 2018.
23	Kundah Pumped Storage-I Tamil Nadu	125	2021-22	2022-23	488	989.8	221.52	22.23 (May-19)	<ul style="list-style-type: none"> * Delay in award of Civil & HM works * Civil & HM works have been taken up from 05/2018 only
Private									
24	Ratle J&K	850	2017-18	Subject to restart of works (5 years)	5517.02	6275	0		<ul style="list-style-type: none"> * Slow progress of works. * Works suspended since 11.7.14 due to frequent local disturbance. * Developer wants to surrender the Project to State Govt. Govt. of J&K, PDD have terminated PPA on 09.02.2017 and directed JKSPDC to take over the project. * The parties namely, GVKRHEPPL and JKPDD have contested their respective claims and matter is now Sub-judice. * JV of JKSPDC & NHPC formed for implementation of project.
25	Sorang H.P.	100	Nov-11	Mar-20	586	586	0		<ul style="list-style-type: none"> * 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.

26	Tidong-I H.P.	100	Oct-21	Oct-21		940	163.74	36.56	* Delay in NOC by Projects affected Panchayats. * Suspension of works by Govt. for one year. * Funds constraints with the developer
27	Tangnu Romai-I H.P.	44	Jun-14	Subject to restart of works (4 years)	255	641.89	0		* Slow progress of civil works. * Poor geology. * Difficult area. * Weather conditions & accessibility. * Financial constraints with the developer.
28	Bajoli Holi H.P.	180	May-18	Mar-20	1696.93	2205	704	94 (May-19)	* Slow progress of works.
29	Phata Byung Uttarakhand	76	Jun-12	Subject to restart of works (3 years)	520	1225.53	78.86		* Flash flood in June,2013. * Poor geology in HRT.
30	Singoli Bhatwari Uttarakhand	99	Dec-12	Mar-20	666.47	1694	892.47		* Poor geology in HRT.* Agitation by local people.* Flash flood in June,2013.
31	Maheshwar M.P.	400	Mar-02	Subject to restart of works (1.5 years)	1569.27	8121	0		* R&R issues * Cash flow problem with developer * PFC as lead lender have acquired majority equity i.e. 51% in the SMHPCL w.e.f. 1st June, 2016. Matter Sub-judice.
32	Rangit-IV Sikkim	120	Jan-12	Subject to restart of works (3.5 years)	726.16	1692.6	1.68		* Slow progress of HRT & Surge Shaft works due to poor geology. * Works hampered due to earthquake in September, 2011. * Financial constraints with developer
33	Bhasmey Sikkim	51	Jun-12	Subject to restart of works (3 years)	408.5	746.01	0		* Forest clearance * Financial constraints with developer
34	Rangit- II Sikkim	66	Apr-15	Subject to restart of works (2.5 years)	496.44	496.44	126.83		* Slow progress of works. * Financial constraints with the developer.
35	Rongnichu Sikkim	96	Jul-14	Sep-20	491.32	1187	821		* Land Acquisition * Poor geology.
36	Panan Sikkim	300	2018-19	Subject to restart of works (4.5 years)	1833.05	2516	17.7		* Clearance from NWLB received in December, 2015. * Clearance from NGT obtained * Applied for NoC from Govt. of Sikkim in NWLB angle

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (f) OF UNSTARRED QUESTION NO.5287 ANSWERED IN THE LOK SABHA ON 25.07.2019.

Details of Under Construction Thermal Power Projects in the country

Sl. No.	State	Project Name / Impl. Agency/ EPC or BTG	Unit No	Capacity (MW)	Original Commissioning Schedule	Anticipated Commissioning Schedule	Original Cost Rs. In Crore	Latest Cost Rs. In Crore	Reason for Delay
CENTRAL SECTOR									
1	Bihar	Barh STPP-I /NTPC/Others	U-1	660	May-17	Apr-20	8693	15095.67	Delay due to contractual dispute of NTPC with Power machine & Technoprom export, Russia. *Orig. Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constraint. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine, tube failures in superheated and Reheat area, Readiness of Railway line (Hazirabagh-Kodera-Tilaiya-Rajgi-Bkahktiarpur (250 Km))
			U-2	660	Nov-17	Apr-21			
			U-3	660	May-18	May-22			
2	Bihar	Nabi Nagar TPP / JV of NTPC & Rlys/BHEL	U-4	250	Nov-13	Apr-20	5352.51	7998	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).

3	Bihar	New Nabi Nagar TPP /JV of NTPC & BSPGCL TG-Alstom & Bharat Forge, SG-BHEL					13624.02	15131.67	Acquisition of balance land and relocation of homestead owners still living inside the project area.
			U-2	660	Jul-17	Apr-20			
			U-3	660	Jan-18	Mar-22			
4	Chhatisgarh	Lara STPP/NTPC / SG-Dooson TG-BGR Hitachi	U-2	800	May-17	Dec-19	11846	11846	Delayed due to power equipment supply, Delay in land acquisition, delay in radiness of boiler auxiliaries.
5	Jharkhand	North Karanpura STPP/ NTPC / BHEL	U-1	660	Feb-18	Oct-20	14367	14367	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	Oct-21			
			U-3	660	Feb-19	Mar-22			
6	MP	Gadarwara STPP/ NTPC /BTG-BHEL	U-2	800	Sep-17	Dec-19	11638.55	11638.55	Work stopped due to agitation by villagers demanding additional compensate in 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.
7	MP	Khargone STPP/ NTPC/ EPC - L&T	U-1	660	Mar-19	Jul-19	9870.51	9870.51	Broad gauge work from Khandwa to Nimarkheri (Take off point for Railway siding) by Western railways. Disbursement of compensation amount to balance beneficiaries of RoW who are not accepting the compensation amount, for laying of 66KV transmission line from plant to make up water pump house location.
			U-2	660	Sep-19	Mar-20			
8	Odisha	Darlipalli STPP/ NTPC / SG-BHEL TG-JSW & Toshiba	U-1	800	Feb-18	Sep-19	12532.44	12532.44	Delayed due to balance Land acquisition for railway siding, ROU issue for Makeup water line.
			U-2	800	Jun-18	Jun-20			

9	Rajasthan	Barsingar TPP ext/NLC/Reliance Infra	U-1	250	May-20	On Hold	2112.59	2112.59	GoR had informed that due to increased project cost and time overrun, Rajasthan DISCOM will not be in a position to buy the power. NLCIL had replied that delay is due to acquisition of Land for linked Mine by GoR and informed to review the decision. Matter is pending with GoR
10	Rajasthan	Bithnok TPP /NLC/Reliance Infra	U-1	250	May-20	On Hold	2196.3	2196.3	GoR had informed that due to increased project cost and time overrun, Rajasthan DISCOM will not be in a position to buy the power. NLCIL had replied that delay is due to acquisition of Land for linked Mine by GoR and informed to review the decision. Matter is pending with GoR. PROJECT IS ON HOLD
11	Telangana	Telangana STPP St- I / NTPC/SG- BHEL TG- Alstom & Bharatforge	U-1	800	Jan-20	Aug-20	10599	10599	Change in Boiler design w.r.to new environmental norms. Delay in BHEL supply
			U-2	800	Jul-20	Jul-21			
12	TN	Neyveli New TPP/ NLC/BHEL	U-1	500	Sep-17	Aug-19	5907.11	5907.11	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	Mar-20			
13	UP	Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR TG-Toshiba	U-2	660	Dec-16	Jun-20	10821	10821	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.

14	UP	Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd.	U-1	660	Apr-20	Feb-22	17237.8	17237.8	Non sequential material supply
			U-2	660	Oct-20	Aug-23			
			U-3	660	Oct-20	Feb-23			
15	UP	Tanda TPP St II/ NTPC/ SG: L&T/ TG: Alstom	U-1	660	Sep-18	Sep-19	9188.98	9188.98	Balance Land acquisition in main plant & Ash dyke area. Poor mobilisation by civil agency, delay in engineering and supply.
			U-2	660	Mar-19	Apr-20			
16	Jharkand	Patratu STPP / JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.	U-1	800	Dec-21	May-22			Newly started.
			U-2	800	Jan-22	Sep-22			
			U-3	800	Jul-22	Dec-22			
17	Odisha	Rourkela PP-II Expansion/NTPC-Sail Power Co Ltd (NSPCL)(JV of NTPC & Steel Authority of India (SAIL))/BHEL	U-1	250	Dec-18	Apr-22	1885.13	1885.13	Non sequential material supply. Non sequential planning of project facilities like railway siding, water corridor etc.
STATE SECTOR									
1	A.P	Dr.Narla Tata Rao TPS St-V / APGENCO / BTG- BHEL	U-1	800	Jun-19	Feb-20	5286.54	5286.54	Newly started.
2	A.P	Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG- BHEL	U-1	800	Mar-19	Sep-20	4276.04	6034	Slow progress due to civil work.
3	Assam	Namrup CCGT / APGCL / BHEL	ST	36.15	Jan-12	Dec-19	411	693.73	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.
4	Gujarat	Wanakbori TPS Extn. / GSECL SG-Alstom TG-Siemens	U-8	800	Oct-18	Oct-19	3536.51	3536.51	Due to soil strata a lot of piling (4300numbers) has been done in BTG area. Non-readiness of NDCT (100%) and fly ash disposal. Delay in readiness of TG Deck

5	<i>Karnataka</i>	Yelahanka CAPP BY KPCL	GT+ST	370	Mar-18	Oct-19	1571.18	1571.18	Delayed due to heavy Rain
6	<i>Maharashtra</i>	Bhusawal TPS/MAHAGENCO	U-6	660	No data	No data	N/A	N/A	Newly started
7	<i>Odisha</i>	Ib valley TPP / OPGCL BTG- BHEL	U-4	660	Dec-17	Sep-19	11965	11965	Acquisition of land for railway siding and availability of start-up power.
9	<i>Rajasthan</i>	Suratgarh SCTPP/ RRVUNL / BHEL	U-7	660	Sep-16	Sep-19	7920	7920	Slow progress of boiler erection.
			U-8	660	Dec-16	Sep-20			
10	<i>Telangana</i>	Bhadradri TPP / TSGENCO/ BHEL	U-1	270	Mar-17	Mar-20	5044	7290.6	Work held up due to NGT and Non availability of MoEF clearance.
			U-2	270	May-17	Sep-20			
			U-3	270	Jul-17	Mar-21			
			U-4	270	Sep-17	Sep-22			
11	<i>TN</i>	Ennore exp. SCTPP (Lanco) / TANGEDCO BTG-LANCO	U-1	660	Jan-18	Jul-21	5421.38	5421.38	Delayed due to LANCO Insolvency problem.
12	<i>TN</i>	Ennore SCTPP / TANGEDCO/ BHEL	U-1	660	Jan-18	Jul-21	9800	9800	Delayed due to excessive piling in power block area and slow progress of civil work.
			U-2	660	Mar-18	Feb-22			
13	<i>TN</i>	North Chennai TPP St-III TANGEDCO / BHEL	U-1	800	Mar-19	Jul-20	6376	6376	Slow progress due to civil work.
14	<i>TN</i>	Udangudi STPP Stage I/ TANGEDCO, EPC- BHEL	U-1	660	Feb-21	Dec-21	13076.71	13076.705	Newly started
			U-2	660	Feb-21	Jun-22			
15	<i>TN</i>	Uppur Super Critical TPP TANGEDCO /BHEL	U-1	800	Mar-19	Mar-22	12778	12778	Delay in start and slow progress of of civil works. Non sequential material supply
			U-2	800	Oct-19	Sep-22			
16	<i>UP</i>	Harduaganj TPS Exp-II / UPRVUNL/Toshiba JSW	U-1	660	Jun-19	Apr-20	4826.49	4826.49	Late receipt of MoEF and CC Clearance

17	Telangana	Yadadri TPS/TSGENCO/BHEL	U-1	800	Oct-20	Oct-20	29965	29965	Newly started
			U-2	800	Oct-20	Oct-20			
			U-3	800	Oct-21	Oct-21			
			U-4	800	Oct-21	Oct-21			
			U-5	800	Oct-21	Oct-21			
18	UP	Jawaharpur STPP/ UPRVUNL/ Doosan	U-1	660	Sep-20	Mar-21	10556.27	10556.27	Newly started
			U-2	660	Jan-21	Jul-21			
19	UP	Panki TPS Extn./ URVUNL	U-1	660	No data	No data	N/A	N/A	Newly started
20	UP	Obra-C STPP/ UPRVUNL/ Doosan	U-1	660	Sep-20	Apr-21	10416	10416	Slow progress due to civil work.
			U-2	660	Dec-20	Dec-20			
PRIVATE SECTOR									
1	AP	Bhavanapadu TPP Ph-I / East Coast Energy Ltd. BTG-Chinese	U-1	660	Oct-13	Uncertain	6571.94	9343.15	Work remained under suspension due to MoE&F order for a long time. After restart works hampered due to two cyclones . Agitation against State bifurcation. Slow progress of work at site due to financial problems.
			U-2	660	Mar-14	Uncertain			
2	AP	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG- Chinese	U-3	350	May-12	Dec-20	3120 (600MW)/ 5005 (700MW)		Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time.
			U-4	350	Aug-12	Mar-21			
3	Bihar	Siriya TPP (Jas Infra. TPP) / JICPL BTG-Chinese	U-1	660	Aug-14	Uncertain	11120	11120	No work is going on at site. *Commissioning schedule would be assessed after re-start of work.
			U-2	660	Dec-14	Uncertain			
			U-3	660	Apr-15	Uncertain			
			U-4	660	Aug-15	Uncertain			
4	Chhattisgarh	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Chinese	U-4	600	Apr-13	Apr-22	16190	27080	Delayed due to Financial Constraints
			U-5	600	Aug-13	Uncertain			
			U-6	600	Dec-13	Uncertain			

5	<i>Chhattisgarh</i>	Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. SG-Cethar Vessels TG-Harbin China	U-3	300	Mar-14	Uncertain	5058	7940	Work yet to start. Delay in balance land acquisition for ash dyke.
			U-4	300	Jun-14	Uncertain			
6	<i>Chhattisgarh</i>	Lanco Amarkantak TPP-II/ LAP Pvt. Ltd. BTG-DEC	U-3	660	Jan-12	Uncertain	6886	10815.24	Delay in acquisition of land for water system. Presently work is going slow at site due to financial problems.
			U-4	660	Mar-12	Uncertain			
7	<i>Chhattisgarh</i>	Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DECL	U-1	600	Nov-14	Uncertain	6200	8443.79	Delay in land acquisition. Slow progress of Boiler & TG erection. Delay due to financial problems.
			U-2	600	Feb-15	Uncertain			
8	<i>Chhattisgarh</i>	Salora TPP / Vandana Vidyut/ BTG-Cether Vessles	U-2	135	Sep-11	Uncertain	1458.44	1458.44	Delay in commissioning of unit-1. Agitation by villagers at site. Delay in supply of BTG and CHP material. Non cooperation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.
9	<i>Chhattisgarh</i>	Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL	U-1	600	Aug-13	Uncertain	2618.7	3930	Order of AHP, Fire protection system, AC & ventilation system, LT/Ht switchgear, cables, air compressor, LT transformers, station, GT & unit transformer not yet placed. Work is on hold due to financial crunch.
10	<i>Jharkhand</i>	Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL	U-1	270	Apr-12	Uncertain	2900	2900	Law and order problem. Delay in supply of BTG equipment. Delay in readiness of transmission line due to forest clearance. Work held up due to financial problems since Nov, 12.
			U-2	270	May-12	Uncertain			
11	<i>Jharkhand</i>	Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL	U-3	270	Oct-12	Uncertain	3182	3182	Law and order problem and delay in supply of BTG material. Work is held up due to financial problems at site. *Commissioning schedule would be assessed after re-start of work.
			U-4	270	Jan-13	Uncertain			
12	<i>Jharkhand</i>	Tori TPP Ph-I / Essar Power Ltd. BTG-China	U-1	600	Jul-12	Uncertain	5700	5700	Law and order problem. Delay in start of civil work & slow progress of works. Delay in MOEF clearance for Unit-2. Work held up after cancellation of earlier allotted coal blocks.
			U-2	600	Sep-12	Uncertain			
13	<i>Jharkhand</i>	Tori TPP Ph-II / Essar Power Ltd.	U-3	600	Dec-15	Uncertain	2500	2500	

14	Maharashtra	Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL	U-1	270	Jul-14	Uncertain	6646	6646	No Work is going on at site due to financial problems. *Commissioning schedule would be assessed after re-start of work.
			U-2	270	Sep-14	Uncertain			
			U-3	270	Nov-14	Uncertain			
			U-4	270	Jan-15	Uncertain			
			U-5	270	Mar-15	Uncertain			
15	Maharashtra	Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO	U-1	660	Jul-14	Uncertain	6936	10433	work at site put on hold due to financial problems
			U-2	660	Nov-14	Uncertain			
16	Maharashtra	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	U-1	270	Apr-13	Uncertain	6789	6789	No Work is going on at site due to financial problems. May slip to 13th plan. *Commissioning schedule would be assessed after re-start of work.
			U-2	270	Jun-13	Uncertain			
			U-3	270	Aug-13	Uncertain			
			U-4	270	Oct-13	Uncertain			
			U-5	270	Dec-13	Uncertain			
17	Maharashtra	Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. / BTG-Chinese	U-1	300	Dec-16	Uncertain	3189	3450	Delay due to change in capacity from 2x250 MW to 2x300 MW
			U-2	300	Mar-17	Uncertain			
18	Maharashtra	Shirpur TPP ,Shirpur Power Pvt. Ltd.-BHEL	U-2	150	Apr-15	Uncertain	2413	2413	Delay in start up Power, No PPA, No Coal linkage, Financial constraints.
19	MP	Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL	U-1	660	Jun-13	Uncertain	3941	3941	Order for main plant equipment has been placed. Work is on hold. *Commissioning schedule would be assessed after re-start of work.
21	Odisha	Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels	U-2	350	Dec-11	Uncertain	3150	4001	Delay due to heavy rains. Delay in readiness of transmission line for start up power. Commissioning problems such as change of firing guns of boiler and change in bypass valve.
22	Odisha	KVK Nilanchal TPP/ KVK Nilanchal / Harbin China BTG-	U-1	350	Dec-11	Uncertain	4990	6000	Initially delayed due to chimney clearance and law & order problem. Work was held up due to stay by Hon'ble High Court of Orissa. Hon'ble High Court has given order dated: 20.05.14 to start the work. Delay in approval of revised cost of the project by lenders.
			U-2	350	Feb-12	Uncertain			
			U-3	350	Feb-12	Uncertain			

23	<i>Odisha</i>	Lanco Babandh TPP / LBP Ltd./ BTG-Chinese	U-1	660	Apr-13	Uncertain	6930	10430	Delay in land acquisition. work is going slow at site due to financial problem.
			U-2	660	Aug-13	Uncertain			
24	<i>Odisha</i>	Malibrahmani TPP / MPCL/ BTG-BHEL	U-1	525	Dec-12	Uncertain	5093	6330	Delay in land acquisition and delay in supply of TG hall structures. Slow progress due to financial problem.
			U-2	525	Feb-13	Uncertain			
25	<i>TN</i>	Tuticorin TPP (Ind- Barath) / IBPIL / BTG-Chinese	U-1	660	May-12	Uncertain	3595	3595	Late start and slow progress of civil works and delay in supply of boiler structural material at site.
26	<i>TN</i>	Tuticorin TPP St-IV / SEPC/ EPC-MEIL (BTG-BHEL)	U-1	525	Sep-18	Dec-20	3514	3514	Slow progress in BoP areas, Delay in award of interconnection and transmission facility.
27	<i>WB</i>	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd/ BTG-BHEL.	U-3	150	May-16	Uncertain	2656	3307	MoEF Moratorium for no construction activity in haldia and asansol industrial area in WB

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5322
ANSWERED ON 25.07.2019**

POWER SUPPLY FOR TRUCK/ LORRY BODY BUILDING UNITS

5322. SHRI A.K.P. CHINRAJ:

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

- (a) whether the Government is aware of the fact that over 250 truck/lorry bodybuilding units functioning in Namakkal-Tiruchengode belt of Tamil Nadu, had been hit by irregular power cuts in recent months;**
- (b) if so, the details thereof;**
- (c) whether the Government proposes to take necessary steps to set up a separate power plant for regular and uninterrupted power supply for the said units functioning in Namakkal-Tiruchengode belt which is considered as a major trucks hub in the country;**
- (d) if so, the details thereof; and**
- (e) if not, the reasons therefor?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) to (e) : Electricity is a concurrent subject. Providing electricity to all the consumers including in the industrial sector, in different cities within the State etc, is the primary responsibility of concerned State Governments/Power Distribution Companies (DISCOMs).

No reference about irregular power cuts in the truck/lorry body building units in Namakkal-Tiruchengode belt in Tamil Nadu has been received in this Ministry. Further, as reported by the state of Tamil Nadu to Central Electricity Authority (CEA), during April-June, 2019 there is no notified power cuts/restrictions on industries in Tamil Nadu.

Generation is a delicensed activity under Electricity Act 2003. Electricity Generation Project (except Hydro & Nuclear Project) are set by various utilities and State/Central Public Sector Undertakings (CPSUs) keeping in view the demand for power and techo-commercial viability.

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5329
ANSWERED ON 25.07.2019**

COMMITTEE FOR POWER SECTOR

5329. SHRI H. VASANTHAKUMAR:

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

- (a) whether power cuts has become quite common across the country and if so, the details thereof along with the extent to which it affects the economy of the country;**
- (b) whether any expert committee has been formed to analyse the drawback of power cuts and its impact on the households/industry;**
- (c) if so, the details thereof; and**
- (d) the steps taken by the Government to reduce the power cuts so far along with the funds allocated by the Government in this regard during the last three years and the current year, State/UT-wise?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) to (c) : Electricity is a concurrent subject. Providing electricity to all the consumers is the primary responsibility of concerned State Governments/Power Distribution Companies (DISCOMs). Thus, power cuts and its impact on households/industry, if any, are to be monitored by the respective State Government/ Distribution Companies/ State Electricity Regulation Commission.

As on 30.06.2019, the installed generation capacity is about 358 Giga Watt (GW) which is sufficient to meet the power demand of the country. The maximum peak demand occurred during the current year 2019-20 (upto June, 2019) was around 184 GW. During April-June, 2019 the average power shortage in the country was only around 0.4% and the peak power shortage was only around 0.6%. This gap is not on account of shortage of availability of power but on account of factors like constraints in distribution network, financial constraints to purchase power by Distribution Company etc. The state-wise details of power supply position in the country during the current year 2019-20 (up to June, 2019) are at Annexure-I.

(d) : Government of India supplement the efforts of the States through its schemes including Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS), Pradhan Mantri Sahaj Bijli Har Ghar Yojana- Saubhagya, Ujjwal Discom Assurance Yojana (UDAY). These schemes help them to strengthen distribution network/grid connectivity and achieve 24x7 Power for All and would facilitate uninterrupted power supply. The State-wise details of fund sanctioned under DDUGJY (including additional Infrastructure) and IPDS are at Annexure-II.

Government of India also assists the States/UTs by allocating power from Central Generating Stations (CGSs). State can also purchase power through various market mechanisms including power exchanges to meet any gap in demand and supply.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 5329 ANSWERED IN THE LOK SABHA ON 25.07.2019.

Power Supply Position for 2019-20 (Provisional)

State / System / Region	Energy				Peak			
	April, 2019 - June, 2019 *				April, 2019 - June, 2019 *			
	Energy Requirement	Energy Supplied	Energy not Supplied		Peak Demand	Peak Met	Demand not Met	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
Chandigarh	500	500	0	0.0	413	413	0	0.0
Delhi	9,904	9,899	5	0.0	6,904	6,904	0	0.0
Haryana	14,420	14,420	0	0.0	10,237	10,237	0	0.0
Himachal Pradesh	2,541	2,523	19	0.7	1,619	1,619	0	0.0
Jammu & Kashmir	5,043	4,166	877	17.4	3,033	2,426	607	20.0
Punjab	15,315	15,309	6	0.0	13,090	13,090	0	0.0
Rajasthan	20,856	20,835	21	0.1	12,620	12,620	0	0.0
Uttar Pradesh	36,022	35,804	218	0.6	22,487	22,057	430	1.9
Uttarakhand	3,861	3,778	84	2.2	2,164	2,164	0	0.0
Northern Region	108,462	107,233	1,229	1.1	65,950	64,838	1,112	1.7
Chhattisgarh	8,315	8,314	1	0.0	4,596	4,574	22	0.5
Gujarat	31,725	31,725	0	0.0	18,437	18,424	13	0.1
Madhya Pradesh	18,994	18,994	0	0.0	10,187	10,180	7	0.1
Maharashtra	42,724	42,724	0	0.0	23,621	23,613	8	0.0
Daman & Diu	660	660	0	0.0	351	350	1	0.2
Dadar Nagar Haveli	1,637	1,637	0	0.0	824	824	0	0.0
Goa	1,158	1,158	0	0.0	622	621	1	0.1
Western Region	105,213	105,212	1	0.0	57,113	57,093	20	0.0
Andhra Pradesh	17,427	17,413	14	0.1	10,170	10,170	0	0.0
Telangana	15,565	15,563	2	0.0	10,269	10,202	67	0.7
Karnataka	19,363	19,360	2	0.0	12,700	12,688	12	0.1
Kerala	7,067	7,052	15	0.2	4,487	4,300	186	4.2
Tamil Nadu	29,828	29,825	3	0.0	15,680	15,668	11	0.1
Puducherry	787	786	1	0.1	464	462	2	0.5
Lakshadweep #	12	12	0	0	8	8	0	0
Southern Region	90,037	89,999	38	0.0	49,218	49,103	115	0.2
Bihar	8,705	8,700	6	0.1	5,754	5,754	0	0.0
DVC	5,685	5,683	2	0.0	3,118	3,118	0	0.0
Jharkhand	2,272	2,254	18	0.8	1,396	1,389	6	0.5
Odisha	7,937	7,937	0	0.0	5,207	5,207	0	0.0
West Bengal	15,120	15,076	44	0.3	9,115	9,115	0	0.0
Sikkim	121	121	0	0.0	99	99	0	0.0
Andaman- Nicobar #	87	81	6	6.7	58	54	4	7
Eastern Region	39,841	39,772	69	0.2	24,113	24,113	0	0.0
Arunachal Pradesh	190	188	1	0.6	146	144	2	1.4
Assam	2,541	2,354	187	7.3	1,935	1,791	144	7.4
Manipur	206	204	2	1.0	197	188	9	4.8
Meghalaya	500	481	19	3.8	367	367	0	0.0
Mizoram	147	145	1	0.8	116	113	3	2.8
Nagaland	190	188	2	0.8	157	140	17	11.0
Tripura ##	446	432	14	3.2	320	311	9	2.8
North-Eastern Region	4,218	3,992	226	5.4	2,922	2,861	61	2.1
All India	347,771	346,208	1,563	0.4	183,673	182,533	1,140	0.6

* Provisional

Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and supply.

Excludes the supply to Bangladesh.

Note: Power Supply Position Report has been compiled based on the data furnished by State Utilities/ Electricity Departments.

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 5329 ANSWERED IN THE LOK SABHA ON 25.07.2019.

Year-wise and State-wise fund sanctioned under IPDS since 2014-15

(in Rs. Crore)						
State	2014-15	2015-16	2016-17	2017-18	2018-19	Total
Andaman & Nicobar	-	-	11	-	-	11
Andhra Pradesh	260	133	12	82	78.65	566
Arunachal Pradesh	-	128	-	-	7.16	136
Assam	-	498	-	63	70.92	631
Bihar	148	1,123	-	41	591.14	1,903
Chhattisgarh	-	296	40	32	27.35	395
Delhi	-	-	119	-	-	119
Goa	-	-	-	19	31.19	51
Gujarat	226	453	13	112	-	803
Haryana	-	48	187	23	38.69	296
Himachal Pradesh	-	95	-	33	33.93	162
Jammu & Kashmir	-	380	-	18	45.83	444
Jharkhand	-	-	443	33	0.01	475
Karnataka	-	689	-	103	119.62	912
Kerala	-	-	375	65	3.19	443
Maharashtra	-	1,392	63	82	64.15	1,601
Manipur	-	111	-	3	19.45	133
Meghalaya	-	53	-	-	38.97	92
Mizoram	-	42	-	3	49.45	95
Madhya Pradesh	44	864	-	81	95.75	1,085
Nagaland	-	-	38	-	79.77	117
Odisha	-	314	338	86	7.45	745
Puducherry	-	13	-	-	0.00	13
Punjab	-	196	-	68	15.43	280
Rajasthan	-	788	-	116	62.20	966
Sikkim	-	-	-	13	123.97	137
Tamil Nadu	-	945	-	81	90.03	1,116
Telangana	-	393	14	49	6.04	463
Tripura	-	63	-	27	98.38	188
Uttar Pradesh	643	2,200	-	361	64.04	3,267
Uttarakhand	-	163	10	34	409.35	617
West Bengal	647	957	166	19	52.71	1,841
Grand Total	1968	12336	1830	1645	2325	20,103

Year-wise and State-wise fund sanctioned under DDUGJY since 2014-15

(in Rs. Crore)

Sl.	STATE	2014-15	2015-16	2016-17	2017-18	2018-19 (Additional amount sanctioned under DDUGJY to support Household electrification)	Total Sanctioned (From 2014-15 to 2018-19)
1	Andhra Pradesh	328.60	593.46				941.41
2	Andaman & Nicobar			20.96			20.96
3	Arunachal Pradesh		267.20			292.13	718.65
4	Assam		1274.10			1493.57	3028.86
5	Bihar		5856.37				5856.37
6	Chhattisgarh		1253.98	9.48		83.64	1616.31
7	Dadar & Nagar Haveli		5.00				5.00
8	Goa		20.00				20.00
9	Gujarat		924.72				924.72
10	Haryana		316.38			30.31	346.69
11	Himachal Pradesh	159.12				8.68	167.80
12	Jammu & Kashmir		619.67			875.03	1556.97
13	Jharkhand		3696.22	25.9		1077.7	4996.00
14	Karnataka		1750.11	4.19		126.74	1881.65
15	Kerala		485.37				485.37
16	Madhya Pradesh	2865.25		20.03		998.64	3889.17
17	Maharashtra		2163.44	11.53		368.92	2543.89
18	Manipur		54.96			60.27	132.28
19	Meghalaya		261.69			381.33	659.53
20	Mizoram		30.43			31.65	62.08
21	Nagaland		42.38	42.18		28.31	112.87
22	Odisha		1654.53			508.63	2258.21
23	Puducherry			20.15			20.15
24	Punjab		252.06				252.06
25	Rajasthan		2819.41			1219.21	4127.83
26	Sikkim			49.7		37.36	87.06
27	Telangana		462.30				462.30
28	Tamil Nadu	924.12					924.12
29	Tripura		74.12			358.64	432.76
30	Uttar Pradesh	313.93	6632.99			6289.57	13236.49
31	Uttarakhand		842.00				845.30
32	West Bengal	4262.10					4262.10
		8853.12	32352.91	204.12	0	14270.33	56874.979

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5339
ANSWERED ON 25.07.2019**

LAND ACQUIRED FOR POWER PROJECTS

5339. SHRI G.M. SIDDESHWAR:

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

- (a) the details of the policy laid down by the Government to grant compensation to the affected people for the land acquired for various Power Projects including Government and Private Power Projects;**
- (b) whether any compensation has been paid to the affected people for the land acquired for various Power Projects in various States including Karnataka during each of the last three years and the current year; and**
- (c) if so, the details thereof, State-wise?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) : Government of India has notified Right to Fair Compensation & Transparency in Land Acquisition, Rehabilitation and Resettlement (RFCTLARR) Act-2013, which is applicable w.e.f. 01.01.2014. Provision regarding land compensation to be paid to the affected families is governed as per Schedule-I of RFCTLARR Act, 2013. Prior to enactment of RFCTLARR Act, 2013, land compensation provision was governed as per the Land Acquisition Act, 1894. However, the above mentioned two acts are not applicable in J&K. In J&K Land Acquisition and compensation issues are dealt as per provision of J&K Land Act 1991.

The RFCTLARR Act, 2013 lays down procedures for arriving at 'fair compensation/replacement cost' of land/assets of affected persons, along with other safeguards to protect their interests. The details of Resettlement & Rehabilitation (R&R) provision as per second schedule of the act, includes provision of house in case of physical displacement, land for land option, offer for developed land, choice of annuity or employment, subsistence grant & transportation cost for displaced families, one time grant for artisan/small traders, one time resettlement allowance to affected families, fishing rights in case of hydel/irrigation projects etc. Further, SC/ST families shall be entitled to addition safeguards and R&R assistances like additional subsistence grant, preference for relocation in similar ecological zone etc.

Project Authority deposits the required amount for land compensation with District Administration/State Authority, as decided and demanded by them, after which the concerned District Administration/State Authority disburses the land compensation to the eligible persons.

As regards, Private Power Projects, the compensation is paid by the Private Company as per the policy of respective State Governments.

(b) & (c) : Yes Sir. Compensation has been paid to the affected people for the land acquired for various Power Projects in various States. The details are given at Annexure.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO. 5339 ANSWERED IN THE LOK SABHA ON 25.07.2019.

DETAILS OF THE COMPENSATION PAID TO THE AFFECTED PEOPLE, UTILITY-WISE & STATE-WISE

Sr. No.	Utility	Name of State / UT	Amount of compensation paid to the affected people (in Rs. Crore)				
			2016-17	2017-18	2018-19	2019-20	Total
1.	NHPC Ltd.	Arunachal Pradesh	NIL	NIL	24.6658	NIL	24.6658
2.	NHPC Ltd.	Jammu & Kashmir	2.1732	0.6679	0.2575	NIL	3.0986
3.	NHPC Ltd.	West Bengal	6.2957	1.249	0.1937	NIL	7.7384
4.	NHPC Ltd.	Sikkim	NIL	NIL	6.7978	NIL	6.7978
5.	NHPC Ltd.	Himachal Pradesh	32.5936	1.1198	0.2847	NIL	33.9981
6.	NTPC Ltd.	Bihar	2.66	0.54	21.04	NIL	24.24
7.	NTPC Ltd.	Chhattisgarh	NIL	0.46	1.77	14.3	16.53
8.	NTPC Ltd.	Maharashtra	NIL	66.76	NIL	NIL	66.76
9.	NTPC Ltd.	Madhya Pradesh	123.77	NIL	5.13	NIL	128.9
10.	NTPC Ltd.	Odisha	NIL	NIL	60.81	NIL	60.81
11.	NUPPL	Uttar Pradesh	47.67			7.90	55.57
12.	NTPL	Tamil Nadu	NIL	35.0557	NIL	NIL	35.0557
13.	SJVN Ltd.	Bihar	6.52	0.19	27.53	NIL	34.24
14.	SJVN Ltd.	Himachal Pradesh	6.93	NIL	NIL	NIL	6.93
15.	DVC	Jharkhand	5.67	20.36	1.53	39.99	67.55
16.	DVC	West Bengal	0.63	0.14	NIL	NIL	0.77
17.	PGCIL	Andhra Pradesh	NIL	NIL	1.8255	NIL	1.8255
18.	THDCIL	Uttarakhand	0.92	0.12	NIL	NIL	1.04
19.	THDCIL	Uttar Pradesh	125.36	NIL	19.12	NIL	144.48
20.	BBMB	Himachal Pradesh	3.42	2.32	4.99	12.67	23.40

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5352
ANSWERED ON 25.07.2019**

BENEFICIARIES UNDER RGGVY AND DDUGJY

**†5352. SHRI ARJUN LAL MEENA:
SHRI ANTO ANTONY:**

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

- (a) whether the Government has implemented a scheme called Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and if so, the details thereof;**
- (b) whether the Government has any data regarding the total number of beneficiaries under the said yojana since its inception and if so, the details thereof, Year and State-wise;**
- (c) whether the Government is implementing Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY);**
- (d) if so, the details including the number of beneficiaries under the said yojana since its inception, year and State-wise; and**
- (e) whether the Government proposes to take any new steps to cover more and more farmers under the said yojana and if so, the details thereof and if not, the reasons therefor?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) to (e) : Government of India launched Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) in April, 2005 for creation of Rural Electricity Infrastructure & Household Electrification and Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) in December, 2014 for various rural electrification works including separation of agriculture and non-agriculture feeders, strengthening and augmentation of sub-transmission & distribution infrastructure, metering at distribution transformers/feeders/consumers and electrification of villages & households across the country. The erstwhile RGGVY was subsumed in DDUGJY as RE component.

In addition to development and strengthening of sub-transmission and distribution network in rural areas, the schemes had provision of providing free electricity connection to Below Poverty Line (BPL) household. Cumulatively, under DDUGJY including RE component, free electricity service connections to 3.45 crore households were released upto 31.03.2019. The State-wise and Year-wise release of free electricity connections to BPL households, is at Annexure.

Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana - SAUBHAGYA in October, 2017 for universal household electrification by providing last mile connectivity and electricity connections to all households in rural and all poor households in urban areas across the country. All States declared electrification of all households on Saubhagya portal, except 18,734 households in LWE affected areas of Chhattisgarh as on 31 March, 2019. Since the launch of Saubhagya scheme, 2.63 crore households were electrified across the country upto 31.03.2019.

Under DDUGJY, an amount of Rs.15190.87 crore has been sanctioned by the Government of India for separation of agriculture and non-agriculture feeders to facilitate judicious rostering of power supply to agricultural & non- agricultural consumers in the rural areas. This will help States to provide adequate supply of electricity to the farmers in rural areas.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 5352 ANSWERED IN THE LOK SABHA ON 25.07.2019.

STATE-WISE AND YEAR-WISE RELEASE OF FREE ELECTRICITY SERVICE CONNECTIONS TO BPL HOUSEHOLDS UNDER DDUGJY INCLUDING RE COMPONENT

Sl. No.	Name of the State	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Andhra Pradesh		226654	606750	945368	566518	258751	51348	50570				416593	301200	11760
2	Arunachal Pradesh					967	9205	11347	7140	18762	4200			1892	6399
3	Assam				32718	189816	352237	229936	99506	204904	79004	22077	13	245999	514281
4	Bihar	487	2724	64609	474277	560985	641016	153650	201081	103564	190571	829336	779552	917057	859652
5	Chhattisgarh			15302	75592	145990	196552	469005	64504	69538	62172	38239	12373	78933	34006
6	Gujarat		10373	67944	116310	85931	420126	102134	26729	11672	1726			4440	620
7	Haryana			6907	16930	69453	90535	9303	19	5432	1				5419
8	Himachal Pradesh				392	148	3637	5135	5200	927	324				43
9	J&K			4062	3924	14163	8452	8806	9072	14276	5260	420	713	97	52436
10	Jharkhand			2826	243830	555289	359213	56545	26070	11608	12022	6314	2687	158175	507998
11	Karnataka	12268	107047	255421	226046	134949	48861	44631	24640	16560	19532	2735	89004	87018	190869
12	Kerala			6596	3394	6131	1117		35755	60229	12329	15657	9097	108327	3112
13	Madhya Pradesh			1099	76026	75477	211816	350132	244422	180737	173281	146391	284748	272095	343899
14	Maharashtra			56287	145715	429026	403387	126317	21148	32709	6702	59		4392	382047
15	Manipur			1300	2056	1640	4397	19301	37	807	40649			2784	46015
16	Meghalaya				1264	17832	12880	30334	22727	18262	1063	21	74	2544	
17	Mizoram					378	8129	6236	401	4096	10023		447	285	1183
18	Nagaland					4368	13434	10590	9048	8237	8300	507		5223	54971
19	Odisha			72	144056	674156	1435007	358777	78003	38896	22149	19477	42028	183685	1384305
20	Punjab					16413	28890		26479	20000	1206				
21	Rajasthan		9236	246142	237727	208695	255939	22058	97324	17163	16755	8035	71643	166884	164042
22	Sikkim					66	7121	2179	417	346	1622	1850			3421
23	Tamil Nadu				296	383533	115044	2329					1192	22297	7
24	Telangana										868			16909	522397
25	Tripura					22085	36886	21170	18516	16383	1272	4435	23221	31416	22947
26	Uttar Pradesh	4060	251628	191576	251575	157263	15818	172502	3037	14695	86750	337313	482521	1010062	297115
27	Uttarakhand		21539	61642	50111	51998	19596		4035	29000				46	7205
28	West Bengal		26572	32647	37181	345198	925309	524499	220661	62927	1596	6278	26857	30954	17850

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5357
ANSWERED ON 25.07.2019**

LOSS OF FOREST LAND DUE TO GTTPL

5357. SHRI SUNIL DATTATRAY TATKARE:

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

- (a) whether 177 hectares of forest land will be lost/wiped out for a proposed transmission line project to be taken up by the Goa-Tamnar Transmission Project Limited (GTTPL) and if so, the details thereof;**
- (b) the details of the immediate and long term negative impacts on both the ecological and social system as reported by Environmental Impact Assessment(EIA) observations/study;**
- (c) the steps taken by the Government for alternative and realignment of the project; and**
- (d) if not, the mitigation measures considered and implemented by the Government for the purpose?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) & (b) : M/s Goa-Tamnar Transmission Project Limited (GTTPL) is an Inter State Transmission System (ISTS) licensee which is implementing the scheme "Additional 400 kV Feed to Goa and Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool" awarded through Tariff Based Competitive Bidding. As per the information from M/s GTTPL, the area affected for the purpose of forest diversion by this project would be around 177 hectares. However, the actual affected area which will be used for tree felling and execution of work will be only 23.098 hectares. This affected area will also be compensated with the provision of dwarf/medicinal plants below the conductor. In addition, for requisite clearance under the Forest Conservation Act, 1980, the project developer has to do Compensatory Afforestation in double the area, i.e. 354 hectares against the proposed diversion of 177 hectares of forest land. This plantation will be done and maintained for 10 years by the project developer.

The impact of transmission lines on the ecological and social system is minimal. Therefore, in accordance with the Ministry of Environment and Forests, Government of India's EIA Notification 2006, transmission line projects are not required to undertake Environment Impact Assessment (EIA). However, necessary clearance under the Forest Conservation Act, 1980 has to be obtained, when the transmission line passes through forest area.

(c) & (d) : M/s GTTPL had submitted 3 alternate routes for the above overhead lines along with application for grant of authorization under section 164 of Electricity Act, 2003. Authorization has been granted for the route involving minimum forest and protected areas.

As a mitigation measure, following have been taken into account:

- (1) Compensatory Afforestation (CA) as per the guidelines MoEFCC.**
- (2) Selection of route involving minimum forest and protected areas.**
- (3) To reduce the impact further, the already existing defunct 110 kV line route has been considered for the alignment of above line.**

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5363
ANSWERED ON 25.07.2019**

SUPPLY OF ELECTRIC VEHICLES

5363. MS. LOCKET CHATTERJEE:

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

- (a) whether the Government proposes to supply/ lease 10,000 Electric Vehicles (EVs) for various Governmental Departments;**
- (b) if so, the details thereof and the deadline fixed therefor;**
- (c) whether the deadline fixed has been postponed and if so, the details thereof;**
- (d) whether the EVs leased till May 2019 have performed below standard in terms of mileage; and**
- (e) if so, the details thereof?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) to (c) : Energy Efficiency Services Limited (EESL), a joint venture company of Public Sector Undertakings (PSUs) under the Ministry of Power has concluded the procurement process of 10,000 e-cars under the National E-Mobility Programme that was launched on 7th March 2018. These e-cars are provided to Government Departments on lease/outright purchase basis to replace the existing fleet of petrol and diesel vehicles taken on lease by them.

Till date, 652 e-cars have been deployed for various Government Departments across India by EESL along with commissioning of 295 AC and 161 DC captive chargers in their premises to charge these e-cars. State-wise list of e-cars deployed and chargers commissioned is at Annexure.

As per the Letter of Award (LoA) issued on 13thOctober 2017 (for 400 e-cars) and 28th February 2018 (for 9,600 e-cars), the e-cars were to be supplied by 30thNovember 2017 and 31stJanuary 2019 respectively. However, the demand for e-cars has been less than estimated. Therefore, the date of supply has been extended to 31stJanuary 2020.

(d) & (e) : All the EVs leased by EESL are in operation for the last eighteen (18) months and being used by Government Departments. The performance of the deployed EVs including mileage, is as per the specifications indicated in the LoA.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 5363 ANSWERED IN THE LOK SABHA ON 25.07.2019.

State/UT wise list of e-cars deployed and chargers commissioned by EESL:-

S. No.	State/UT	E-cars deployed	AC Charger installed	DC Charger installed
1.	Andaman & Nicobar Island	20	8	4
2.	Andhra Pradesh	280	20	28
3.	Delhi	256	203	102
4.	Gujarat	10	10	2
5.	Haryana	14	6	2
6.	Jharkhand	36	15	7
7.	Madhya Pradesh	22	21	11
8.	Maharashtra	5	2	2
9.	Telangana	-	8	2
10.	Uttar Pradesh	9	2	1
	Total	652	295	161

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5371
ANSWERED ON 25.07.2019**

ASSESSMENT OF SUPPLY AND DEMAND OF POWER

**†5371. SHRI R.K. SINGH PATEL:
DR. VIRENDRA KUMAR:
SHRI MANSUKHBHAI DHANJIBHAI VASAVA:**

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

- (a) whether the Government has conducted any assessment of the supply and demand of electricity and if so, the details thereof, State/UT-wise;**
- (b) the estimated requirement of electricity in the country in the year 2020;**
- (c) the quantity of electricity likely to be available from the existing and ongoing projects in the country;**
- (d) whether the Government has decided to set up new power generation units to meet the shortage of electricity and if so, the details thereof, State/UT-wise; and**
- (e) the details of power projects to be set up by the Government for the next five years, project-wise and State/UT-wise?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) & (b) : The 19th Electric Power Survey (EPS) report covers electricity demand projection for the year 2016-17 to 2026-27 as well as perspective electricity demand projection for the year 2031-32 and 2036-37 for each state/UTs. The estimated requirement of the country, state/UT-wise for the year 2020 is given at Annexure-I

(c) : As per National Electricity Plan notified in 2018, the projected All India Installed Capacity by the end of 2021-22 is likely to be 4,79,419 MW which includes 2,17,302 MW from Coal, 25,735 MW from Gas, 51,301 MW from Hydro, 10,080 MW from Nuclear and 1,75,000 MW from Renewable Energy Sources. With this generation-installed capacity, all India electricity demand of 1566 BU projected as per 19th Electric Power Survey (EPS) is likely to be fully met.

(d) & (e) : After enactment of the Electricity Act 2003, generation of electricity has been de-licensed. As per information available with the Central Electricity Authority (CEA), details of thermal power projects (units) under construction in the country is given at Annexure-II. The state-wise list of under construction hydro electric projects (above 25 MW) is given at Annexure-III. The details of under construction Nuclear Power Projects that are likely to yield benefit by the year 2021-22 is given at Annexure-IV.

ANNEXURE-I**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 5371 ANSWERED IN THE LOK SABHA ON 25.07.2019.**

Estimated requirement of electricity in for the year 2020**(in Million Unit)**

State/UTs	2019-20
Delhi	35380
Haryana	57083
Himachal Pradesh	10949
Jammu & Kashmir	17109
Punjab	64730
Rajasthan	83168
Uttar Pradesh	132476
Uttarakhand	17007
Chandigarh	2145
Goa	5068
Gujarat	120693
Chhattisgarh	33463
Madhya Pradesh	88022
Maharashtra	171313
D. & N. Haveli	8210
Daman & Diu	2449
Andhra Pradesh	68034
Telangana	75164
Karnataka	77532
Kerala	28535
Tamil Nadu	123724
Puducherry	3387
Bihar	31017
Jharkhand	27488
Odisha	30302
West Bengal	63979
Sikkim	577
Assam	11894
Manipur	1769
Meghalaya	2378
Nagaland	992
Tripura	1456
Arunachal Pradesh	1210
Mizoram	737
Andaman & Nicobar	414
Lakshadweep	57
All India	1399913

ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 5371 ANSWERED IN THE LOK SABHA ON 25.07.2019.

Details of Under Construction Thermal Power Projects in the Country

Sl. No.	State	Project Name	Unit No	Cap. (MW)	Anticipated Commissioning Schedule
		CENTRAL SECTOR			
1	Bihar	Barh STPP-I	U-1	660	Apr-20
			U-2	660	Apr-21
			U-3	660	May-22
2	Bihar	Nabi Nagar TPP	U-4	250	Apr-20
3	Bihar	New Nabi Nagar TPP	U-1	660	Sep-19
			U-2	660	Apr-20
			U-3	660	Mar-22
4	Chhattisgarh	Lara STPP	U-2	800	Dec-19
5	Jharkhand	North Karanpura STPP	U-1	660	Oct-20
			U-2	660	Oct-21
			U-3	660	Mar-22
6	MP	Gadarwara STPP	U-2	800	Dec-19
7	MP	Khargone STPP	U-1	660	Jul-19
			U-2	660	Mar-20
8	Odisha	Darlipalli STPP	U-1	800	Sep-19
			U-2	800	Jun-20
9	Rajasthan	Barsingar TPP ext	U-1	250	On Hold
10	Rajasthan	Bithnok TPP	U-1	250	On Hold
11	Telangana	Telangana STPP St- I	U-1	800	Aug-20
			U-2	800	Jul-21
12	TN	Neyveli New TPP	U-1	500	Aug-19
			U-2	500	Mar-20
13	UP	Meja STPP	U-2	660	Jun-20
14	UP	Ghatampur TPP	U-1	660	Feb-22
			U-2	660	Aug-23
			U-3	660	Feb-23
15	UP	Tanda TPP St II	U-5	660	Sep-19
			U-6	660	Apr-20
16	Jharkhand	Patratu STPP	U-1	800	May-22
			U-2	800	Sep-22
			U-3	800	Dec-22
17	Odisha	Rourkela PP-II Expansion	U-1	250	Apr-22
TOTAL CENTRAL SECTOR				20420	
		STATE SECTOR			
1	A.P	Dr.Narla Tata Rao TPS St-V	U-1	800	Feb-20
2	A.P	Sri Damodaran Sanjeevaiah TPP St-II	U-1	800	Sep-20
3	Assam	Namrup CCGT	ST	36.15	Dec-19
4	Gujarat	Wanakbori TPS Extn.	U-8	800	Oct-19
5	Karnataka	Yelahanka CCPP	GT+ST	370	Oct-19
6	Maharashtra	Bhusawal TPS	U-6	660	NA
7	Odisha	Ib valley TPP	U-4	660	Sep-19
8	Rajasthan	Suratgarh SCTPP	U-7	660	Sep-19
			U-8	660	Sep-20
9	Telangana	Bhadradri TPP / TSGENCO/ BHEL	U-1	270	Mar-20
			U-2	270	Sep-20
			U-3	270	Mar-21
			U-4	270	Sep-22
10	TN	Ennore exp. SCTPP	U-1	660	Jul-21
11	TN	Ennore SCTPP	U-1	660	Jul-21
			U-2	660	Feb-22
12	TN	North Chennai TPP St-III	U-1	800	Jul-20
13	TN	Udangudi STPP Stage I	U-1	660	Dec-21
			U-2	660	Jun-22
14	TN	Uppur Super Critical TPP	U-1	800	Mar-22
			U-2	800	Sep-22
15	UP	Harduaganj TPS Exp-II	U-1	660	Apr-20
16	Telangana	Yadadri TPS	U-1	800	Sep-20
			U-2	800	Sep-20
			U-3	800	Mar-21
			U-4	800	Mar-21
			U-5	800	Sep-21

17	UP	Jawaharpur STPP	U-1	660	Mar-21
			U-2	660	Jul-21
18	UP	Panki TPS Extn	U-1	660	
19	UP	Obra-C STPP	U-1	660	Apr-21
			U-2	660	Dec-20
Total State Sector				20186.15	
PRIVATE SECTOR					
1	AP	Bhavanapadu TPP Ph-	U-1	660	
			U-2	660	
2	AP	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese	U-3	350	Dec-20
			U-4	350	Mar-21
3	Bihar	Siriya TPP (Jas Infra. TPP)	U-1	660	
			U-2	660	
			U-3	660	
			U-4	660	
4	Chhattisgarh	Akaltara TPP (Naiyara)	U-4	600	Apr-22
			U-5	600	
			U-6	600	
5	Chhattisgarh	Binjkote TPP/	U-3	300	
			U-4	300	
6	Chhattisgarh	Lanco Amarkantak TPP-II	U-3	660	
			U-4	660	
7	Chhattisgarh	Singhitarai TPP	U-1	600	
			U-2	600	
8	Chhattisgarh	Salora TPP	U-2	135	
9	Chhattisgarh	Deveri (Visa) TPP	U-1	600	
10	Jharkhand	Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC- BHEL	U-1	270	
			U-2	270	
11	Jharkhand	Matrishri Usha TPP Ph-II	U-3	270	
			U-4	270	
12	Jharkhand	Tori TPP Ph-I	U-1	600	
			U-2	600	
13	Jharkhand	Tori TPP Ph-II	U-3	600	
14	Maharashtra	Amravati TPP Ph-II	U-1	270	
			U-2	270	
			U-3	270	
			U-4	270	
			U-5	270	
15	Maharashtra	Lanco Vidarbha TPP	U-1	660	
			U-2	660	
16	Maharashtra	Nasik TPP Ph-II	U-1	270	
			U-2	270	
			U-3	270	
			U-4	270	
			U-5	270	
17	Maharashtra	Bijora Ghanmukh TPP	U-1	300	
			U-2	300	
18	Maharashtra	Shirpur TPP	U-2	150	
19	MP	Gorgi TPP	U-1	660	
21	Odisha	Ind Barath TPP (Odisha)	U-2	350	
22	Odisha	KVK Nilanchal TPP	U-1	350	
			U-2	350	
			U-3	350	
23	Odisha	Lanco Babandh TPP	U-1	660	
			U-2	660	
24	Odisha	Malibrahmani TPP	U-1	525	
			U-2	525	
25	TN	Tuticorin TPP (Ind- Barath)	U-1	660	
26	TN	Tuticorin TPP St-IV	U-1	525	Dec-20
27	WB	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP	U-3	150	
Total Private Sector				23730	
Grand Total				64336.15	

Note: Anticipated date of commissioning has not been communicated by Private developer to CEA.

ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 5371 ANSWERED IN THE LOK SABHA ON 25.07.2019.

List of Under Construction Hydro Electric Projects in the Country (above 25 MW)

State wise		(As on 30.06.2019)			
Sl. No.	Name of Scheme (Executing Agency)	Sector	I.C. (No. x MW)	Cap. Under Execution (M W)	Likely Commissioning Schedule
Andhra Pradesh					
1	Polavaram (APGENCO/ Irrigation Dept., A.P.)	State	12x80	960.00	2021-23 (Mar'23)
Sub-total: Andhra Pradesh				960.00	
Arunachal Pradesh					
2	Kameng (NEEPCO)	Central	4x150	600.00	2019-20 (Dec,19)
3	Subansiri Lower (NHPC)	Central	8x250	2000.00	2023-24 *
Sub-total: Arunachal Pradesh				2600.00	
Himachal Pradesh					
4	Parbati St. II (NHPC)	Central	4x200	800.00	2021-22 (Dec'21)
5	Uhi-III (BVPCL)	State	3x33.33	100.00	2019-20 (Jan'20)
6	Sawra Kuddu (HPPCL)	State	3x37	111.00	2019-20 (Mar'20)
7	Shongtong Karcham (HPPCL)	State	3x150	450.00	2023-25 (Apr'24)
8	Bajoli Holi (GMR)	Private	3x60	180.00	2019-20 (Mar'20)@
9	Sorang (HSPCL)	Private	2x50	100.00	2019-20 (Mar'20)@
10	Tangnu Romai (TRPG)	Private	2x22	44.00	2021-22 *
11	Tidong-I (Statkraft IPL)	Private	100.00	100.00	2021-22 (Oct'21)
Sub-total: Himachal Pradesh				1885.00	
Jammu & Kashmir					
12	Pakal Dul (CVPPL)	Central	4x250	1000.00	2023-24 (Aug'23)
13	Parnai (JKSPDC)	State	3x12.5	37.50	2021-22 (Mar'22)
14	Lower Kalnai (JKSPDC)	State	2x24	48.00	2022-23 *
15	# Ratle (RHEPPL)	Private	4x205 + 1x30	850.00	2023-24 *
Sub-total: Jammu & Kashmir				1935.50	
Kerala					
16	Pallivasal (KSEB)	State	2x30	60.00	2021-22 (Dec'21)
17	Thottiyar (KSEB)	State	1x30+1x10	40.00	2020-21 (Dec'20)
Sub-total: Kerala				100.00	
Madhya Pradesh					
18	## Maheshwar (SMHPCL)	Private	10x40	400.00	2021-22 *
Sub-total: Madhya Pradesh				400.00	
Maharashtra					
19	Koyna Left Bank (WRD,MAH)	State	2x40	80.00	2022-23 *
Sub-total: Maharashtra				80.00	
Punjab					
20	Shahpurkandi (PSPCL/ Irrigation Deptt., Pb.)	State	3x33+3x33+ 1x8	206.00	2021-22 (Nov'21)
Sub-total: Punjab				206.00	
Sikkim					
21	Teesta St. VI NHPC	Central	4x125	500.00	2023-24 *
22	Bhasmey (Gati Infrastructure)	Private	3x17	51.00	2022-23 *
23	Rangit-IV (JAL Power)	Private	3x40	120.00	2022-23 *
24	Rangit-II (Sikkim Hydro)	Private	2x33	66.00	2021-22 *
25	Rongnichu (Madhya Bharat)	Private	2x48	96.00	2020-21 (Sept'20)
26	Panan (Himagiri)	Private	4x75	300.00	2023-24 *
Sub-total: Sikkim				1133.00	
Tamil Nadu					
27	Kundah Pumped Storage	State	1x125	125.00	2022-23
Sub-total: Tamil Nadu				125.00	

Uttarakhand					
28	Lata Tapovan (NTPC)	Central	3x57	171.00	2023-24 *
29	Tapovan Vishnugad (NTPC)	Central	4x130	520.00	2020-21 (Dec'20)
30	Tehri PSS (THDC)	Central	4x250	1000.00	2021-23 (Jun'22)
31	Vishnugad Pipalkoti (THDC)	Central	4x111	444.00	2022-23 (Dec'22)
32	Naitwar Mori (SJVNL)	Central	2x30	60.00	2021-22 (Dec-21)
33	Vyasi (UJVNL)	State	2x60	120.00	2020-21 (Jun'20)
34	Phata Byung (LANCO)	Private	2x38	76.00	2021-22 *
35	Singoli Bhatwari (L&T)	Private	3x33	99.00	2019-20 (Mar'20)@
Sub-total: Uttarakhand				2490.00	
West Bengal					
36	Rammam-III (NTPC)	Central	3x40	120.00	2021-22 (Feb'22)
Sub-total: West Bengal				120.00	
Total:				12034.50	
*	Subject to restart of works				

Govt. of J&K, PDD have terminated PPA on 09.02.2017 and directed JKSPDC to take over the project. MoU between NHPC (51% share) & JKSPDC (49% share) signed on 03.02.2019 for implementation of project in JV mode.

PFC as lead lender have acquired majority equity i.e. 51% in the SMHPCL w.e.f. 1st June, 2016. Matter Sub-judice.

@ Critical

ANNEXURE-IV

ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 5371 ANSWERED IN THE LOK SABHA ON 25.07.2019.

Nuclear Power Projects likely to yield benefit by the year 2021-22

Sl.	Project Name	Sector	State	Capacity (in MW)
1	Kakrapar Atomic Power Plant	Central	Gujarat	1400
2	Rajasthan Atomic Power Station	Central	Rajasthan	1400
3	BHAVINI (PFBR)	Central	Tamil Nadu	500
	Total (Nuclear)			3300

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5425
ANSWERED ON 25.07.2019**

DEVELOPMENT OF TRANSMISSION SYSTEM

5425. DR. PRITAM GOPINATHRAO MUNDE:

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

- (a) whether Central Electricity Authority (CEA) prepares National Electricity Plan to develop the transmission system in the country and if so, the details thereof;**
- (b) whether the Government has setup a programme for construction of transmission lines for evacuation of power from generating stations during the last three years and if so, the details thereof;**
- (c) the extent to which it has been achieved;**
- (d) whether the Government proposes to strengthen the existing transmission network for meeting projected growth in load or demand and optimum utilization of distribution of generated resources indifferent regions;**
- (e) if so, the quantum of funds allocated for the said work; and**
- (f) the extent to which target has been achieved in this regard?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) : Central Electricity Authority (CEA) prepares the National Electricity Plan (NEP) to develop the transmission system in the country in compliance of section 3(4) of Electricity Act, 2003. National Electricity Plan (Vol-II Transmission) has been notified in the Gazette of India on 7th February, 2019.

(b) & (c): Transmission lines are planned and constructed for evacuation of power from generating stations and strengthening of existing transmission network. The transmission system associated with generation projects are executed matching with the completion schedule of the respective generation project for evacuation of power to load centers. The transmission lines of 12,089 ckm, associated with various generation projects, have been executed in last three years (i.e. FY 2016-17, 2017-18 & 2018-19) for evacuation of power from the respective generation projects.

(d) & (e): Transmission systems establish the link between source of generation and distribution system. Therefore, the transmission systems are planned for evacuation of power from Generating stations and for meeting growth in load / demand as projected in the Electric Power Survey (EPS) Report.

Accordingly, planning of transmission system (transmission lines and associated substations) for the period 2017-22, to meet the projected peak electricity demand of 226 GW (as per 19th EPS) during 2021-22 has been carried out. The transmission projects are implemented generally through Tariff Based Competitive Bidding and tariff is collected as per extant CERC Tariff Regulations.

(f): Against a target of 23,086 ckm of transmission lines and 53,978 MVA of transformation capacity during 2017-18, 23119 ckm transmission lines and 86,193 MVA transformation capacity has been added. Similarly, in 2018-19, against a target of 22,647 ckm of transmission lines and 62,600 MVA of transformation capacity, 22437 ckm transmission lines and 72,705 MVA transformation capacity has been added.

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.5459
ANSWERED ON 25.07.2019**

TARGETS FIXED FOR POWER GENERATION

†5459. SHRI ASHOK MAHADEORAO NETE:

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

- (a) whether decision to generate additional power capacity was made during the last five years plan;**
- (b) if so, the targets fixed for power generation and the time limit prescribed for achieving these targets;**
- (c) whether even the fixed target could not be achieved;**
- (d) if so, the details thereof along with the reasons therefor; and**
- (e) the gap between the actual generation capacity and demand as on date?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) to (d) : A capacity addition target of 88,537 MW from conventional sources was set for the 12th Five Year Plan (2012–17) against which 99,209 MW (112% of the target) has been achieved.

(e) : During the year 2018-19, demand not met and energy not supplied were 0.8% and 0.6% respectively. The same figures for the year 2019-20 (up to June, 2019) are 0.6% and 0.4% respectively. The gap between demand and supply of power in the country was on account of factors like constraints in distribution networks, financial constraints, commercial reasons etc. rather than inadequacy of power availability in the country.
