

GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
STARRED QUESTION NO.265  
TO BE ANSWERED ON 11.07.2019

DEMAND AND SUPPLY OF POWER

\*265. SHRI VINOD KUMARSONKAR:  
SHRI RAJAAMARESHWARA NAIK:

Will the Minister of POWER  
be pleased to state:

- (a) whether there is mismatch in demand and supply of power in various States of the country and if so, the details thereof, State/UT-wise including Uttar Pradesh;
- (b) whether the State of West Bengal has a peak demand-supply gap which is more than the all India average and the highest in the country after two-three small States and if so, the details thereof along with the peak demand-supply gap, State-wise;
- (c) whether the Government proposes to amend the Electricity Act to levy hefty penalties on power distribution companies for load shedding and make provisions for direct subsidy transfers by the States to power consumers and if so, the steps taken by the Government in this regard; and
- (d) whether electricity generation has been adversely affected due to shortage of coal supply by the Government to thermal power plants in various States of the country including Punjab and if so, the steps taken by the Government in this regard?

A N S W E R

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

( SHRI R.K. SINGH)

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

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## STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO.265 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019 REGARDING DEMAND AND SUPPLY OF POWER.

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(a) & (b) : As reported by State to Central Electricity Authority (CEA), the details of demand and supply of power in various States of our country including Uttar Pradesh, in terms of electrical energy and peak demand during the current year 2019-20 (up to June, 2019) is at Annex. As against All India average of 0.6% peak power shortage there is no peak shortage in West Bengal, and further while there is energy deficit of 0.4% at All India level, there is 0.3% energy shortage in West Bengal.

(c) : Proposal to provide for penalties on power distribution companies for gratuitous load shedding and make provisions for direct subsidy transfers by States to power consumers are issues under discussion for finalisation of Amendments to the Electricity Act.

(d) : The total coal receipt in the power plants was 112.0 Million Tonne (MT) during the current year 2019-20 (Upto May, 2019) against 107.3 MT during the same period during last year showing a growth of 4.3%. With the concerted efforts of Ministry of Power, Ministry of Coal and Railways, the coal stock available with the power plants monitored by CEA on daily basis has improved to 26.09 MT as on 04.07.2019 which is sufficient for 15 days of generation as compared to 15.5 MT for 10 days as on the same day last year. Thus, due to enhanced coal supply to power plants, the demand of power in the Electricity grid is being met by thermal generating stations and supported by other generating sources.

An Inter-Ministerial Sub-Group comprising representatives of Ministry of Power, Ministry of Coal and Ministry of Railways, CEA, CIL and SCCL monitors coal supply position on regular basis. Based on the decisions taken in the meeting, CIL/SCCL augment supply of coal and the Railways give priority in supply of rakes to power plants having less coal stock.

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ANNEXURE REFERRED TO IN PARTS (a) & (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 265 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019 REGARDING DEMAND AND SUPPLY OF POWER.

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Power Supply Position for 2019-20 (Provisional)

State / System / Region	Energy				Peak			
	April, 2019 - June, 2019 *				April, 2019 - June, 2019 *			
	Energy Requirement ( MU )	Energy Supplied ( MU )	Energy not Supplied		Peak Demand ( MW )	Peak Met ( MW )	Demand not Met	
			( MU )	( % )			( 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.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
STARRED QUESTION NO.270  
TO BE ANSWERED ON 11.07.2019

TRANSMISSION RELATED ISSUES

\*270. DR. SHRIKANT EKNATHSHINDE:  
SHRI GIRISHBHALLACHANDRABAPAT:

Will the Minister of POWER  
be pleased to state:

- (a) whether the power sector has been grappling with transmission related issues for a long time and if so, the details thereof;
- (b) whether problems aggravated due to higher power generation and demand, if so, the facts thereof;
- (c) whether separate fund for the development of transmission and power sector related infrastructure is required, if so, the details thereof;
- (d) whether the Central Electricity Regulatory Commission (CERC) has issued draft regulations for Power System Development Fund and if so, the details and the facts thereof; and
- (e) whether the Government has decided for the utilisation of the said Fund and if so, the details thereof along with the time by which the proposed Fund is likely to be created/operationalised?

A N S W E R

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

( SHRI R.K. SINGH)

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

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STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO.270 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019 REGARDING TRANSMISSION RELATED ISSUES.

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(a) & (b) : About one lac twenty two thousand circuit kms of transmission lines have been added in the country during the last five years. A robust National Grid has been established leading to One Nation - One Grid which has facilitated transfer of power from resource rich areas to load centers. Due to this, the peak power shortage in the country has reduced from 10.6% during 2011-12 to around 0.6% during the current year. On most of the days there is one price in the Power Exchange indicating that there is no congestion in the transmission grid.

At any point in time, power generation has to match with the demand in the Electricity Grid and this has been possible due to availability of adequate generation capacity in the country, and there being no constraints in transmission.

(c) : A separate fund for development of transmission system is not envisaged as of now. Central Government does not grant funds for the development of transmission system except for certain strategic projects since the development of the transmission system, as envisaged in the Tariff Policy, is generally through Tariff Based Competitive Bidding (TBCB) mode.

(d) : Yes, Sir. CERC has circulated the draft Central Electricity Regulatory Commission (Power System Development Fund) Regulations, 2019 on 24th May, 2019 for public consultations. The draft regulations propose to repeal the CERC (Power System Development Fund), Regulations, 2014 issued on 9th June, 2014, in view of the guidelines issued by Ministry of Power (MoP) and experience gained so far in their implementation. The draft Central Electricity Regulatory Commission (Power System Development Fund) Regulations, 2019 provide for changes in operating procedures, constitution of committees, implementation and monitoring mechanism etc.

(e) : Presently, the schemes received from utilities are being recommended for PSDF funding under existing CERC (PSDF) Regulations, 2014 and PSDF guidelines issued by MoP.

So far, 140 Schemes have been approved for PSDF funding with a sanctioned Grant of Rs.11,282 crores, in the presently operationalized PSDF scheme of Govt. of India.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
STARRED QUESTION NO.277  
TO BE ANSWERED ON 11.07.2019

24-HOUR POWER SUPPLY

†\*277.SHRI DHARAMBIR SINGH:

Will the Minister of POWER  
be pleased to state:

- (a) whether most of the villages receive power supply only for 2-4 hours a day even today and if so, the details thereof;
- (b) whether any plan/scheme has been formulated to provide 24-hour power supply in the said villages and if so, the details thereof;
- (c) the number of cases relating to power theft and distribution/transmission loss which came to light of the Government during the last three years, State/UT-wise including Haryana;
- (d) the steps taken by the Government to check/stop such theft/loss; and
- (e) the time by which 24-hour power supply is likely to be provided to all villages of the country in each State/UT including Haryana?

A N S W E R

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

( SHRI R.K. SINGH)

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

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STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO.277 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019 REGARDING 24-HOUR POWER SUPPLY.

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(a) & (b): Electricity is a concurrent list subject and distribution of electricity & management of associated functions is carried out by the concerned State Government / Distribution utility. States/UTs have entered into Memorandum of Understanding (MoU) with the Government of India for providing 24x7 power supply to all households, industrial & commercial consumers from April, 2019 and adequate supply of power to agricultural consumers as per State policy. Government of India is supplementing the efforts of the States through its schemes including DeenDayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS), Pradhan MantriSahajBijliHarGhar Yojana- Saubhagya and UjjwalDiscom Assurance Yojana (UDAY). As reported, 18 States are already providing 20 hours or more of power in rural area.

(c): Central Electricity Authority (CEA) has reported 6,64,706 cases of theft of electricity in 2017-18. As reported by the States on UDAY Portal, provisional Aggregate Technical & Commercial (AT&C) loss for India was 18.29% in 2018-19 and that for Haryana was 17.45%.

(d): Electricity Act, 2003 provides for dealing with theft of electricity. Government of India supports States through various schemes such as IPDS, DDUGJY and UDAY to enable them in improving their Distribution infrastructure system and management so that energy losses including those due to theft are reduced.

(e): As mentioned in (a) & (b) above. There are no shortfalls in peak demand met and energy supplied for Haryana in 2018-19.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
STARRED QUESTION NO.280  
TO BE ANSWERED ON 11.07.2019

CLEARANCE OF TRANSMISSION LINES

\*280. DR. PRITAMGOPINATHRAOMUNDE:  
SHRI SRIRANGA APPABARNE:

Will the Minister of POWER  
be pleased to state:

(a) whether the Central Electricity Regulatory Commission (CERC) did not agree to clear transmission lines required by the end of 2020 of renewable projects under implementation or tendered projects approved under norms prevalent till June 2018;

(b) if so, the details thereof and the reasons therefor along with the response of the Government thereto;

(c) whether approval under new process would have taken nearly a year, by which time the renewable projects underway would have started coming on stream and if so, the details thereof;

(d) whether investments would have been stranded due to the absence of power evacuation infrastructure and if so, the response of the Government thereto; and

(e) the steps taken by the Government to resolve the issue on priority basis?

A N S W E R

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

( SHRI R.K. SINGH)

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

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STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO.280 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019 REGARDING CLEARANCE OF TRANSMISSION LINES.

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(a) & (b): A comprehensive transmission scheme has been evolved for integrating the identified Renewable Energy Zones of 66.5 GW, which has been planned to be implemented in two phases. About 28 GW of RE projects are planned under Phase-I (up to December 2020) and balance 38.5 GW are under Phase-II (December 2021).

POWERGRID, the Central Transmission Utility (CTU), has filed two petitions (37/MP/2019 and 23/MP/2019) in Central Electricity Regulatory Commission (CERC) for regulatory approval of execution of Transmission system under Phase-I.

In Petition No. 37/MP/2019, CERC observed that "Petitioner has not complied with the provisions of the Transmission Planning Regulations and Regulatory Approval Regulations before approaching the Commission in all respects for grant of regulatory approval for execution of the transmission system for evacuation of power from potential solar and wind energy zones in Western Regional. Therefore, we are unable to take decision in the present Petition."

As regards Petition No. 23/MP/2019, the CERC directed the petitioner to submit additional information on affidavit.

Central Govt. has asked CTU to expedite the compliance of CERC Regulations.

(c): Inter-State transmission schemes associated with RE projects under Phase-I have already been agreed in Regional Standing Committee on Transmission of Western, Northern and Southern Regions, National Committee on Transmission (NCT) and Empowered Committee on Transmission (ECT) in January, 2019. The process of bidding for transmission system associated with 12.4 GW of RE project is already underway and the same is expected to be completed by September, 2019.

(d): The transmission system related to above RE projects, getting implemented through Tariff Based Competitive Bidding Route, is being bid out with scheduled date of completion of most of the elements by December' 2020.

(e): To expedite the implementation of Inter-State transmission schemes for evacuation of RE power, the bidding process and the process for grant of Regulatory Approval are being done simultaneously. A Working Group for expeditious implementation of the RE generation and associated transmission system has also been constituted by the Government.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2959  
TO BE ANSWERED ON 11.07.2019

IMPLEMENTATION OF DDUGJY

2959. SHRI MANICKAMTAGORE B.:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government targeted 100% electrification of rural households under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) but still one third of the rural households are not electrified;
- (b) if so, the details thereof;
- (c) whether the Government has also analyzed the technical hurdles in the implementation of the said Yojana; and
- (d) if so, the details thereof and the steps taken by the Government in this regard?

A N S W E R

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

( SHRI R.K. SINGH)

(a) to (d): As per the information furnished by the States, all the un-electrified inhabited census villages stand electrified on 28.04.2018 under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY). Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) for universal electrification. The progress of household electrification was reported by the States in Saubhagya Portal (subhagya.gov.in). All States have declared electrification of all households, except 18,734 households in LWE affected areas of Chhattisgarh as on 31.03.2019. Since the launch of Saubhagya scheme, 2.63 crore households were electrified across the country up to 31.03.2019. Subsequently, Government of Chhattisgarh on 14.06.2019 has reported an additional 40,394 un-electrified households and Government of Rajasthan on 01.07.2019 has reported an additional 1,45,528 un-electrified households in the State. They have been advised to connect these additional households in a time bound manner.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2961  
TO BE ANSWERED ON 11.07.2019

MOU BETWEEN NTPC AND NALCO

2961. SHRI HIBI EDEN:

Will the Minister of POWER  
be pleased to state:

- (a) whether the National Thermal Power Corporation (NTPC) and National Aluminium Company Limited (NALCO) have signed any MoU to establish a coal based power project recently;
- (b) if so, the details thereof;
- (c) whether the MoU will facilitate setting up of a Joint Venture (JV) Company between NTPC and NALCO and if so, the details thereof;
- (d) whether this will strive to keep the cost of power generation to a minimum so as to benefit aluminium production for automobile and aerospace industries to improve energy efficiency; 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 THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP

( SHRI R.K. SINGH)

(a) to (e): A non-binding Memorandum of Understanding (MoU) was signed between NTPC and National Aluminium Company Ltd. (NALCO) on 16<sup>th</sup> February, 2016 for establishment of a coal based project at Gajmara, Dhenkanal, Odisha in Joint Venture mode for supply of captive power to NALCO for its proposed expansion projects. NTPC has informed that the aforesaid MoU was valid till formation of Joint Venture Company or for a period of one year from the date of signing of MoU whichever was earlier. However, the Joint Venture Agreement could not be finalized and the MoU expired on 16<sup>th</sup> February 2017.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2989  
TO BE ANSWERED ON 11.07.2019

STATUS OF DDUGJY IN BIHAR

†2989. SHRI KAUSHALENDRAKUMAR:

Will the Minister of POWER  
be pleased to state:

- (a) the quantum of funds utilised by the Government under the DeenDayalUpadhyaya Gram Jyoti Yojana (DDUGJY) during each of the last three years and the current year in the country, State/UT-wise;
- (b) the quantum of funds released by the Government of Bihar under the said yojana during the said period;
- (c) whether any progress has been witnessed in Bihar under the said yojana and if so, the details thereof;
- (d) whether any review of the yojana has been conducted; 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 THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP

( SHRI R.K. SINGH)

(a) : The State-wise funds disbursed under DeenDayalUpadhyaya Gram Jyoti Yojana (DDUGJY) including RE component, (DDUGJY) during the last three years and current year, is given at Annexure.

(b) : The quantum of funds released by the Government of Bihar for implementation of DDUGJY under the said Yojana during the years 2016-17 to 2018-19 is as under:-

S. No.	Financial Year	Rupees in Crore
1.	2016-17	680.65
2.	2017-18	905.64
3.	2018-19	416.93
	Total	2003.22

(c) : As reported by State, works of 136 sub-stations; 23,834 Distribution Transformers; 15,952 Ckm of Feeder Segregation; 771 Ckm of 11 KV lines; 11,529 Ckm of LT lines; 2338 Ckm of 33 KV & 66 KV lines; 4,18,877 Consumer Energy Meters and 23,834 Distribution Transformers Meters have been completed under new projects of DDUGJY in Bihar.

(d) & (e) : For effective implementation of the scheme, a three tier monitoring mechanism is in place. At the Government of India level apart from review at Nodal Agency level and Monitoring Committee, it is regularly reviewed during Review, Planning & Monitoring (RPM) meetings. The overall progress was found to be 60% in the last review meeting. DDUGJY is also available for review under DISHA, by Hon'ble Members of Parliament.

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## ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO.2989 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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## State-wise, Year-wise Release of funds under DDUGJY

(Rs. Crore)

Sr. No.	Name of State	2016-17	2017-18	2018-19	2019-20 till 31.05.2019	Total
1	Andhra Pradesh	128	165	175	3	471
2	Arunachal Pradesh	101	81	160		342
3	Assam	598	401	1088	24	2110
4	Bihar	1292	763	2412	117	4584
5	Chhattisgarh	126	552	79	21	777
6	Gujarat	110	143	181		435
7	Haryana		45	22		67
8	Himachal Pradesh			15		15
9	J&K		65	542	21	629
10	Jharkhand	327	862	1362	10	2561
11	Karnataka	145	204	451	50	850
12	Kerala	134	87	57		278
13	Madhya Pradesh	421	600	952	5	1977
14	Maharashtra	257	143	481.67	5.34	887
15	Manipur	36	33	41	0	111
16	Meghalaya	26	58	155	118	355
17	Mizoram	14	42	35		91
18	Nagaland	21	24	55		100
19	Orissa	1079	366	1360	36	2841
20	Punjab		15	42		57
21	Rajasthan	347	782	1246	17	2391
22	Sikkim		18	21		39
23	Tamil Nadu	110	2	244		356
24	Telangana	27	60	61		148
25	Tripura	78	62	112		251
26	Uttar Pradesh	2262	3149	3560	3	8974
27	Uttarakhand	16	33	270		319
28	West Bengal	273	241	1281		1795
29	Goa			3.27		3
30	D&N Haveli			1		1
31	Puducherry	1		0		1
32	Andaman Nicobar		1			1
	Grand Total	7930	8997	16464	429	33820

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.2993  
TO BE ANSWERED ON 11.07.2019

BURNING OF FLY ASH IN POWER STATIONS

2993. SHRI NARANBHAIKACHHADIYA:

Will the Minister of POWER  
be pleased to state:

- (a) the details of fly ash being produced annually due to burning of coal in power stations ;
- (b) the arrangements made to handle the fly ash by power stations;
- (c) whether any byproducts are made from the fly ash and if so, the profit it adds to the power stations;
- (d) whether fly ash contributes in pollution; 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 THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP

( SHRI R.K. SINGH)

(a) : As per information received from Central Electricity Authority (CEA) annual generation of fly ash (Million tonnes) from 2013 to 2018 (April to March) is as follows:

Sl. No.	Year	Generation of fly ash (Million tonnes)
1	2013-14	172.87
2	2014-15	184.14
3	2015-16	176.74
4	2016-17	169.25
5	2017-18	196.44

(b) : Various methods adopted for handling and disposal of fly ash in thermal power plants are:

- i) Wet Ash handling system.
- ii) High concentration slurry disposal (HCSD).
- iii) Dry fly ash disposal system.

(c) : Fly ash produced in the country is utilized for various purposes such as formine filling manufacture of cement, brick & tiles, reclamation of low-lying areas in Roads & flyovers construction; embankments, Agriculture, Concrete, Hydro Power Sector and Others.

The Monthly data of amount received and Expenditure Borne by various Thermal Power Plants from Data of Ash Availability & Utilization web Portal (From April, 2018 to March, 2019) is annexed.

(d) & (e): Fly ash handling in power plants cause fugitive dust if not handled properly. The power plants are required to take all requisites measures to avoid the same.

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## ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 2993 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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The Monthly data of amount received and Expenditure Borne by various Thermal Power Plant's from Data of Ash Availability & Utilization web Portal (From April, 2018 to March, 2019).

Sr. No	Month	Data Uploaded by No. Of TPP's	Amount received by TPP's (Rs)	Expenditure Borne by TPP's (Rs)
1	Apr-18	127	44,56,55,714	17,32,23,291
2	May-18	127	46,48,85,571	23,43,93,781
3	Jun-18	128	44,90,13,734	17,55,38,079
4	Jul-18	129	33,39,67,085	39,66,92,329
5	Aug-18	128	34,14,18,521	15,12,69,477
6	Sep-18	129	39,67,24,905	16,01,85,807
7	Oct-18	125	47,45,39,336	18,67,59,242
8	Nov-18	124	34,12,49,481	18,18,35,537
9	Dec-18	122	43,95,90,397	23,49,03,422
10	Jan-19	122	43,24,02,530	25,25,89,219
11	Feb-19	120	37,64,40,936	15,67,82,596
12	Mar-19	121	41,15,72,773	20,47,13,742
	Total		4,90,74,60,982	2,50,88,86,523

Reference -<https://mapp.ntpc.co.in/asha/>

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3001  
TO BE ANSWERED ON 11.07.2019

STATUS OF POWER GENERATION

3001. ADV. A.M. ARIFF:

Will the Minister of POWER  
be pleased to state:

- (a) the quantum of total power being generated in the country as on date, source-wise;
- (b) the details of power generation capacity, demand, supply and difference between demand and supply in the country, State/UT-wise;
- (c) the name of the States which are self-sufficient in power supply and those with inadequate power supply along with the quantum of their power supply, source-wise; and
- (d) the quantum of power generated through various power projects of the States during the last three years along with the quantum of power given to the States out of the total power generated by them?

A N S W E R

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

( SHRI R.K. SINGH)

(a) to (d): The details of source wise installed generation capacity and power generation during 2018-19 and the current year, 2019-20 (upto May, 2019) is given at Annexure-I. The state wise details of power supply position indicating electricity demand and supply during the current year 2019-20 (upto June, 2019) is given at Annexure-II. The state wise details of quantum of power generated through various power projects supplying power to the States during the last three years and current year (upto May, 2019) is given at Annexure-III. The Power generated through various power projects of the States is being consumed by the state itself to meet their power requirement. The states also purchase power from Central Generating Stations, Independent Power Producers (IPPs) and also from power markets to meet their electricity requirements.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 3001 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Source-wise break up of All India Installed Capacity as on 30.06.2019.

Source/ Fuel	Capacity (MW)
Thermal	
Coal	194489.50
Lignite	6260.00
Gas	24937.22
Diesel	637.63
Thermal Total	226324.34
Nuclear	6780
Hydro	45399.22
RES #	
Small Hydro Power	4603.75
Wind Power	36089.12
Bio Power	
-BM Power/Cogen.	9131.5
-Waste to Energy	138.3
Solar Power	29409.25
RES Total #	79371.92
All India Total	357875.48

# Installed capacity in respect of RES (MNRE) as on 31.05.2019

Source wise Generation for the current year (upto June,19)

Source	Monitored Capacity as on 31.05.2019 (in MW)	2019-20 (upto June, 2019)
THERMAL	226212.85	287690.9
NUCLEAR	6780.00	10971.43
HYDRO	45399.22	39548.8
Bhutan Import	-	932.8
Total (conventional)	278392.07	339143.93
RENEWABLE SOURCES		21949.38#
Grand Total ( Conventional +Renewable)		361093.3

\* PROVISIONAL BASED ON ACTUAL-CUM-ASSESSMENT

# figures are for May, 2019

Note: Gross Generation from conventional sources (Thermal, Hydro and Nuclear) stations of 25 MW and above only.

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## ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 3001 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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## 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 &amp; 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.

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## ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 3001 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Details of State-wise & Fuel-wise Generation for the last three years & the current year ( upto May 2019)

State	NAME OF THE STATION	Monitored Capacity as on 31.05.2019 MW	Generation (MU)			
			2019-20 *(upto-May 19)	2018-19	2017-18	2016-17
DELHI	BADARPUR TPS	0	0	1400.33	1556.97	1704.85
	I.P.CCPP	270	91.57	599.63	578.8	695.52
	PRAGATI CCGT-III	1500	622.93	3620.46	2957.53	2047.49
	PRAGATI CCGP	330.4	223.65	1515.62	1955.4	1805.4
	RAJGHAT TPS	135	0	0	0	0
	RITHALA CCGP	108	0	0	0	0
HARYANA	FARIDABAD CCGP	431.59	0	597.09	837.38	1034.05
	INDIRA GANDHI STPP	1500	572.97	7387.28	7734.53	5473.77
	MAHATMA GANDHI TPS	1320	949.06	6898.35	7325.47	2895.7
	PANIPAT TPS	920	530.81	3378.89	2579.45	2205.93
	RAJIV GANDHI TPS	1200	177.38	3852.19	4681.01	3856.75
	YAMUNA NAGAR TPS	600	650.91	3321.63	3448.13	3424.24
HIMACHAL PRADESH	ALLAIN DUHANGAN HPS	192	109.87	582.23	683.01	679.12
	BAIRA SIUL HPS	180	0	366.67	641.73	669.33
	BASPA HPS	300	186.46	1275.58	1336.65	1342.75
	BASSI HPS	66	78.74	251.56	315.17	297.76
	BHAKRA H P S				5134.02	5168.27
	BHAKRA LEFT HPS	594	382.82	2248.69		
	BHAKRA RIGHT HPS	785	503	1989.5		
	BUDHIL HPS	70	58.19	288.08	317.63	261.25
	CHAMERA- I HPS	540	635.63	2484.56	2344.08	2224.39
	CHAMERA- II HPS	300	383.65	1508.02	1487.11	1443.93
	CHAMERA-III HPS	231	258.48	1043.42	1068.05	917.09
	CHANJU-I HPS	36	43	137.44	79.42	11.29
	DEHAR H P S	990	804.69	3226.3	3086.24	3184.68
	GIRI BATA HPS	60	17.61	214.45	169.94	140.6
	KARCHAM WANGTOO HPS	1000	716.06	3968.69	4569.93	4372.29
	KASHANG INTEGRATED	195	31.52	118.24	197.13	56.09
	KOLDAM	800	507.09	3013.93	3313.62	3225.16
	LARJI HPS	126	147.34	593.86	612.36	611.66
	MALANA HPS	86	62.51	320.55	346.29	353.79
	MALANA-II HPS	100	62.07	349.39	368.89	366.54
	NATHPA JHAKRI HPS	1500	1316.24	6507.15	7207.73	7050.64
	PARBATI-III HPS	520	89.01	608.3	710.53	682.48
	PONG H P S	396	146.56	1512.56	1641.57	1369.93
	RAMPUR HPS	412.02	374.22	1828.76	2015	1960.42
	SAINJ HPS	100	0	408.81	134.99	0
	SANJAY HPS	120	105.36	589.42	493.39	187.4
	SHANAN HPS	110	142.1	472.39	508.52	472.88
JAMMU AND KASHMIR	BAGLIHAR HPS	450	429.75	2291.15	2506.71	2184.56
	BAGLIHAR II HPS	450	490.28	1857.91	1821.95	1758.98
	CHUTAK HPS	44	8.99	48.96	45.72	44.12
	DULHASTI HPS	390	412.89	2273.38	2343.86	2280.02
	KISHANGANGA HPS	330	221.63	529.25	1.68	0
	LOWER JHELUM HPS	105	110.69	589.33	480.99	483.15
	NIMMO BAZGO HPS	45	17.26	105.55	98.83	95.21
	PAMPURE GPS (Liq.)	175	0	0	0	0
	SALAL HPS	690	902.61	3412.55	3247.09	3423.09
	SEWA-II HPS	120	181.12	498.32	506.39	470.61
	UPPER SINDH-II HPS	105	42.7	305.97	327.24	362.91
	URI-I HPS	480	706.52	3048.29	2349.66	2803.1
	URI-II HPS	240	336.54	1580.92	1207.44	1471.94

PUNJAB	ANANDPUR SAHIB HPS				647.81	673.87
	ANANDPUR SAHIB-I HPS	67	56.15	405.86		
	ANANDPUR SAHIB-II HPS	67	54.96	21.92		
	GANGUWAL HPS	77.65	96.37	599.37	494.09	416.54
	GH TPS (LEH.MOH.)	920	86.47	2485.15	2944.5	2736.39
	GND TPS(BHATINDA)	0	0	0	301.33	698.58
	GOINDWAL SAHIB TPP	540	235.57	2445.49	1541	223.91
	KOTLA HPS	77.65	97.48	609.6	508.22	430.58
	MUKERIAN HPS				1270.76	1083.51
	MUKERIAN-I HPS	45	96.13	1175.44		
	MUKERIAN-II HPS	45	2.33	19.2		
	MUKERIAN-III HPS	58.5	3.24	24.66		
	MUKERIAN-IV HPS	58.5	2.36	24.83		
	RAJPURA TPP	1400	1447.03	9123.71	9110.04	9441.76
	RANJIT SAGAR HPS	600	453.16	1454.52	1803.42	1306.08
	ROPAR TPS	840	13.64	1669.99	2274.36	2776.36
	TALWANDI SABO TPP	1980	1923.59	10639.92	8556.82	7078.84
RAJASTHAN	ANTA CCPP	419.33	179.26	550.65	450.94	695.18
	BARSINGSAR LIGNITE	250	166.26	1357.1	1648.81	1463.25
	CHHABRA TPP	2320	2208.69	10379.13	7630.44	6826.93
	DAE (RAJASTHAN)	100	0	0	0	0
	DHOLPUR CCPP	330	0	20.92	247.72	124.84
	GIRAL TPS	250	0	0	0	0
	JALIPA KAPURDI TPP	1080	1011.86	6700.1	6855.95	6622.49
	JAWAHAR SAGAR HPS	99	2.08	247	261.1	307.55
	KALISINDH TPS	1200	678.55	5550.4	6691.18	5944.12
	KAWAI TPS	1320	1417.39	7599.26	5067.15	8289.27
	KOTA TPS	1240	1318.74	7921.01	7213.05	7486.79
	MAHI BAJAJ HPS				180.17	209.66
	MAHI BAJAJ-I HPS	50	3.28	99.76		
	MAHI BAJAJ-II HPS	90	1.35	17.32		
	R P SAGAR HPS	172	0.02	334.32	378.26	448.78
	RAJASTHAN A.P.S.	1080	1326.29	8034.28	8605.8	7472.6
	RAMGARH CCPP	273.8	140.79	998.09	1448.68	1425.72
	SURATGARH TPS	1500	798.68	7168.92	4964.36	4474.99
UTTAR PRADESH	ANPARA C TPS	1200	1439.44	8236.75	8397.1	8451.36
	ANPARA TPS	2630	3447.13	20140.46	16618.51	15219.41
	AURAIYA CCPP	663.36	18.19	544.96	376.97	535.67
	BARKHERA TPS	90	32.24	148.7	190.36	391.92
	DADRI (NCTPP)	1820	1449.57	10533.54	9933.39	8765.46
	DADRI CCPP	829.78	437.85	1661.51	1627.81	2236.96
	HARDUAGANJ TPS	605	572.08	3141.52	3850.52	3825.11
	KHAMBARKHERA TPS	90	31.67	141.2	181.51	375.3
	KHARA HPS	72	65.89	286.14	259.14	268.93
	KUNDARKI TPS	90	50.23	203.67	192.12	460.8
	LALITPUR TPS	1980	1475.04	5449.92	8565.92	3953.51
	MAQSOODPUR TPS	90	32.22	141.28	167.48	417.24
	MATATILA HPS	30.6	9.37	97.48	93.81	122.68
	MEJA STPP	660	279.67	69.61	8.22	
	NARORA A.P.S.	440	616.25	3161.89	3636.38	3378.89
	OBRA HPS	99	9	231.03	299.96	216.71
	OBRA TPS	1094	621.7	3648.03	4313.9	3842.06
	PANKI TPS	0	0	0	338.69	762.6
	PARICHHA TPS	1140	662.89	4978.88	6427.09	6139.11
	PRAYAGRAJ TPP	1980	1438.4	7759.32	5635.06	4468.48
	RIHAND HPS	300	25.22	561.71	833.78	567.24
	RIHAND STPS	3000	4130.88	22686.8	23530.54	21959.62
	ROSA TPP Ph-I	1200	1321.71	4340.9	7718.8	7913.9
	SINGRAULI STPS	2000	2594.42	14798.21	14781.83	15219.06
	TANDA TPS	440	405.34	2371.8	3277.98	3241.42
	UNCHAHR TPS	1550	1573.89	7241	7092.48	6993.65
	UTRAULA TPS	90	32.76	196.09	192.93	415.02
UTTARAKHAND	CHIBRO (YAMUNA) HPS	240	174.94	809.53	783.57	714
	CHILLA HPS	144	129.78	632.41	811.66	769.35
	DHAKRANI HPS	33.75	31.37	147.48	129.68	120.19
	DHALIPUR HPS	51	44.12	219.99	186.71	180.4
	DHAULI GANGA HPS	280	237.22	1106.21	1153.16	956.13
	GAMA CCPP	225	135.72	412.36	560.66	492.43
	KASHIPUR CCPP	225	263.33	841.88	1062.33	476.58
	KHATIMA HPS	41.4	36.27	232.25	212.6	180.14
	KHODRI HPS	120	80.06	369.68	355.75	333.29

	KOTESHWAR HPS	400	223.52	1223.84	1220.33	1224.55
	KULHAL HPS	30	28.12	146.55	123.97	122.2
	MANERI BHALI - I HPS	90	91.25	430.4	394.77	349.22
	MANERI BHALI - II HPS	304	257.22	1302.34	1276.65	1251.71
	RAMGANGA HPS	198	5.23	188.14	250.64	180.94
	SHRINAGAR HPS	330	220.54	1375.31	1382.54	1280.75
	TANAKPUR HPS	94.2	85.36	452.89	459.74	430.29
	TEHRI ST-1 HPS	1000	471.9	3172.08	3080.94	3146.32
	VISHNU PRAYAG HPS	400	315.28	1932.02	2160.9	2042.05
CHHATTISGARH	AKALTARA TPS	1800	1958.01	7912.22	5806.98	6732.49
	AVANTHA BHANDAR	600	0	0	572.13	2819.44
	BALCO TPS	600	530.17	2768.07	2313.07	3193.38
	BANDAKHAR TPP	300	389.68	2137.6	2223.84	1405.4
	BARADARHA TPS	1200	1215.05	6729.62	6536.81	7188.39
	BHILAI TPS	500	554.08	3426.23	3877.77	3651.19
	BINJKOTE TPP	600	484.09	1464.92	673.97	0
	CHAKABURA TPP	30	43.56	241.55	268.75	242.94
	DSPM TPS	500	679.72	3828.15	4042.97	3982.4
	HASDEOBANGO HPS	120	40.85	243.08	178.07	153.76
	KASAIPALLI TPP	270	342.37	1900.36	1905.36	2012.43
	KATGHORA TPP	35	0	0	0	0
	KORBA STPS	2600	3394.85	20083.42	20477.94	20364.88
	KORBA-II	200	0	226.1	545.24	893.64
	KORBA-III	240	239.47	1317.27	1242.2	1396.99
	KORBA-WEST TPS	1340	1439.39	9472.41	9283.64	9235.86
	LARA TPP	800	71.15	262.91	0	0
	MARWA TPS	1000	729.09	6415.52	5720	2554.67
	NAWAPARA TPP	600	594.6	3095.17	2741.13	714.27
	OP JINDAL TPS	1000	489.46	3349.21	4221.47	4482.79
	PATHADI TPP	600	658.7	4293.08	4139.42	4448.61
	RAIKHEDA TPP	1370	699.44	2830.89	1367.92	763.34
	RATIJA TPS	100	115.92	799.1	743.06	432.03
	SALORA TPP	135	0	0	0	0
	SIPAT STPS	2980	3968.45	23907.12	23009.82	23778.93
	SVPL TPP	63	48.81	12.44	27.13	303.06
	SWASTIK KORBA TPP	25	0	0	0	0
	TAMNAR TPP	2400	1426.79	7044.63	6684.29	4797.7
	UCHPINDA TPP	1440	439.58	1953.26	1438.78	137.59
GOA	GOA CCPP (Liq.)	48	0	0	0	0
GUJARAT	AKRIMOTA LIG TPS	250	129.78	1188.45	1357.12	1392.9
	BARODA CCPP	160	0	0	35.56	135.09
	BHAVNAGAR CFBC TPP	500	0	588.95	480.15	55.47
	DGEN MEGA CCPP	1200	273.42	0.7	0	1.02
	DHUVARAN CCPP	594.72	69.65	699.97	595.78	306.76
	ESSAR CCPP	515	0	0	0	0
	GANDHAR CCPP	657.39	99.47	1573.91	3111.93	2358.82
	GANDHI NAGAR TPS	630	626.7	3703.99	3741.98	2172.33
	GIPCL. GT IMP	0	31.88	202.85	196.18	203.42
	HAZIRA CCPP	156.1	0	24.22	2.48	24.32
	HAZIRA CCPP EXT	351	56.34	352.28	193.33	230.06
	KADANA HPS	240	11.7	237.39	308.92	339.01
	KAKRAPARA	440	345.48	999.93	0	0
	KAWAS CCPP	656.2	451.89	2499.39	2405.9	1718.18
	KUTCH LIG. TPS	290	193.09	1205.39	1297.78	1483.92
	MUNDRA TPS	4620	5573.33	23912.38	21907.95	30298.43
	MUNDRA UMTTP	4000	5122.7	26839.3	26514.87	27460.24
	PEGUTHAN CCPP	655	0	293.98	434.57	280.62
	PIPAVAV CCPP	702	26.34	493.76	168.06	229.99
	S SAROVAR CHPH HPS	250	49.61	594.84	562.86	876.34
	S SAROVAR RBPH HPS	1200	0	0	376.61	2332.87
	SABARMATI (C STATION)	60	0	0	0.01	0
	SABARMATI (D-F STATIONS)	362	491.26	2785.64	2638.77	2759.1
	SALAYA TPP	1200	303.42	0	2682.42	5213.21
	SIKKA REP. TPS	500	551.14	2725.93	2677.54	2148.22
	SUGEN CCPP	1147.5	1268.55	6237.45	6522.62	4771.5
	SURAT LIG. TPS	500	599.36	3521.75	3271.72	3178.22
	UKAI HPS	300	46.02	210.58	303.53	395.66
	UKAI TPS	1110	1386.71	6936.96	6768.96	5296.15
	UNOSUGEN CCPP	382.5	173.35	0	0	0
	UTRAN CCPP	374	54.78	418.22	257.59	157.14
	WANAKBORI TPS	1470	1488.54	8343.14	7704.68	3929.62

MADHYA PRADESH	AMARKANTAK EXT TPS	210	307.55	1636.16	1728.15	1481.04
	ANUPPUR TPP	1200	1338.47	6689.6	6225.05	3760.16
	BANSAGAR TONS-I HPS	315	194.15	578.35	545.37	1239.02
	BANSAGAR-II HPS	30	16.9	37.09	56.12	109.73
	BANSAGAR-III HPS	60	3.49	85.32	68.8	53.48
	BARGI HPS	90	21.23	356.19	159.05	445.47
	BINA TPS	500	489.91	2503.79	2465.28	812.85
	GADARWARA TPP	800	178.62	0		
	GANDHI SAGAR HPS	115	0.66	249.88	351.38	351
	INDIRA SAGAR HPS	1000	181.04	1308.79	881.76	3320.79
	MADHIKHERA HPS	60	0.02	88.99	22.52	147.21
	MAHAN TPP	1200	951.78	3220.09	2918.23	2629.2
	NIGRI TPP	1320	1347.34	7330.28	7688.93	7266.96
	NIWARI TPP	45	35.6	77.38	87.88	237.26
	OMKARESHWAR HPS	520	116.42	612.04	443.6	1427.7
	RAJGHAT HPS	45	0	80.02	58.21	62.26
	SANJAY GANDHI TPS	1340	1351.17	8680.63	7543.08	6843.25
	SASAN UMTTP	3960	5671.03	32877.27	31792.52	29414.72
	SATPURA TPS	1330	1068.14	7472.97	5020.85	3644.9
	SEIONI TPP	600	515.09	2500.55	1666.87	311.25
	SHREE SINGAJI TPP	2520	1800.63	7753.38	3954.09	2474.65
	VINDHYACHAL STPS	4760	6193.26	37539	37495.73	32206.94
MAHARASHTRA	AMARAVATI TPS	1350	599.34	4074.09	4771.38	1874.7
	BELA TPS	270	0	149.37	80.51	0
	BHANDARDHARA HPS ST-II	34	3.39	56.44	42.55	47.12
	BHIRA HPS	150	45.29	351.02	341.17	379.14
	BHIRA PSS HPS	150	81.59	558.77	551.13	572.49
	BHIRA TAIL RACE HPS	80	12.8	94.57	97.15	101.58
	BHIVPURI HPS	75	74.04	315.9	307.2	206.59
	BHUSAWAL TPS	1210	1251.5	6595.75	6623.87	6120.56
	BUTIBORI TPP	600	0	2212.73	3306.31	3742.52
	CHANDRAPUR(MAHARASHTRA) STPS	2920	3276.57	15850.79	14798.22	14941.77
	DAHANU TPS	500	618.14	3617.02	3534.27	3742.55
	DHARIWAL TPP	600	607.87	3228.9	2393.27	1541.71
	GEPL TPP Ph-I	120	0	0	0	0
	GHATGHAR PSS HPS	250	24.7	192.98	152.83	383.87
	GMR WARORA TPS	600	771.38	3895.25	3746.1	3703.42
	JSW RATNAGIRI TPP	1200	1428.05	8019.75	6731.26	6681.86
	KHAPARKHEDA TPS	1340	1464.05	7471.18	6179.19	7714.77
	KHOPOLI HPS	72	50.63	342.49	316.38	307.24
	KORADI TPS	2400	1818.8	8429.52	9387.08	5853.85
	KOYNA DPH HPS	36	44.17	196.18	135.15	156.02
	KOYNA-I HPS				517.92	640.51
	KOYNA-I&II HPS	600	357.59	1024.61		
	KOYNA-II HPS				533.3	649.7
	KOYNA-III HPS	320	244.91	480.65	498.91	614.14
	KOYNA-IV HPS	1000	754.68	1066.51	945.47	1245.48
	MANGAON CCPP	388	0	0	0	215.44
	MAUDA TPS	2320	2211.45	11878.13	7971.14	4305.65
	MIHAN TPS	246	0	0	0	0
	NASIK (P) TPS	1350	0	0	1.69	0.72
	NASIK TPS	630	583.92	2316.16	2887.88	3328.71
	PARAS TPS	500	709.54	2628.25	3116.32	2988.82
	PARLI TPS	1170	156.17	2842.07	3067.31	1627.09
	PENCH HPS	160	10.85	131.61	159.53	360.14
	RATNAGIRI CCPP	1967.08	729.13	4465.63	4501.03	
	RATNAGIRI CCPP I					0
	RATNAGIRI CCPP II					2438.41
	RATNAGIRI CCPP III					2119.31
	SHIRPUR TPP	150	0	0	4.74	
	SOLAPUR	1320	76.69	1783.67	1397.56	0
	TARAPUR	1400	2013.52	10766.42	6876.25	10860.2
	TILLARI HPS	60	18.14	110.96	57.81	106.16
	TIRORA TPS	3300	4266.77	21665.55	17596.24	17642.56
	TROMBAY CCPP	180	260.75	1410.82	1353.66	1413.14
	TROMBAY TPS	1250	853.7	5018.74	4940.5	4980.93
	URAN CCPP	672	398.57	2574.69	3211.7	3294.56
	VAITARNA HPS	60	55.09	154.17	204.62	153.52
	WARDHA WARORA TPP	540	0	1052.44	1129.7	1394.9



ANDHRA PRADESH	DAMODARAM SANJEEVAIAH TPS	1600	1480.29	6957.21	4939.92	8804.65
	Dr. N.TATA RAO TPS	1760	2074.69	10885.93	10821.55	11652.38
	GAUTAMI CCPP	464	0	0	0	0
	GMR Energy Ltd - Kakinada	220	0	0	0	0
	GODAVARI CCPP	208	82.21	1142.85	572.4	1008.75
	GREL CCPP (Rajahmundry)	768	0	0	0	643.51
	JEGURUPADU CCPP PH I	235.4	83.88	826.31	1065.12	924.13
	JEGURUPADU CCPP PH II	220	0	0	0	75.08
	KONASEEMA CCPP	445	0	0	0	0
	KONDAPALLI EXTN CCPP .	366	0	0	0	157.32
	KONDAPALLI CCPP	350	175.79	1667.06	660.7	850.27
	KONDAPALLI ST-3 CCPP	742	0	0	0	1266.11
	LVS POWER DG	36.8	0	0	0	0
	NAGARJUN SGR RBC HPS	90	0	101.55	59.73	4.15
	NAGARJUN SGR TPD	50	1.5	49.92	42.13	7.35
	PAINAMPURAM TPP	1320	1532.72	8369.17	9833.58	9059.4
	PEDDAPURAM CCPP	220	0	0	0	0
	RAYALASEEMA TPS	1650	1575.98	6637.55	6924.7	6711.64
	SGPL TPP	1320	1706.57	9736.08	8970.59	1658.6
	SIMHADRI	2000	1897.08	12449.08	11773.71	14173.49
	SIMHAPURI TPS	600	0	99.46	25.02	1617.72
	SRISAILAM HPS	770	28.28	551.07	574.95	640.61
	THAMMINAPATNAM TPS	300	0	36.59	587.3	1373.63
	UPPER SILERU HPS	240	113.51	476.34	482.22	340.41
	VEMAGIRI CCPP	370	0	0	0	305.33
	VIJESWARAM CCPP	272	116.23	1114.49	1192.04	691.1
	VIZAG TPP	1040	604.73	949.1	3326.14	3282.53
KARNATAKA	ALMATTI DPH HPS	290	4.64	408.42	441.58	404.05
	BELLARY DG	25.2	0	0	0	0
	BELLARY TPS	1700	877.22	4059.06	4021.14	6402.37
	BHADRA HPS	26	1.68	55.21	15.69	27.06
	GERUSUPPA HPS	240	85.5	525.67	280.89	276.6
	GHAT PRABHA HPS	32	8.16	80.67	48.37	48.74
	HAMPI HPS	36	0.37	19.21	36.26	0.1
	JOG HPS	139.2	41.97	194.44	191.48	288.25
	KADRA HPS	150	39.82	375.85	192.91	176.42
	KAIGA	880	1277.06	7216.53	7533.41	6533.49
	KALINADI HPS	855	554.01	2777.85	1537.28	1344.82
	KALINADI SUPA HPS	100	107.68	596.16	290.98	239.2
	KODASALI HPS	120	51.09	345.56	170.94	154.16
	KUDGI STPP	2400	1088.53	7566.33	3945.19	25.49
	LIGANAMAKKI HPS	55	35.71	252.53	125.55	105.64
	MUNIRABAD HPS	28	0	89.42	51.38	31.49
	RAICHUR TPS	1720	2165.6	8917.98	10834.52	11495.67
	SHARAVATHI HPS	1035	912.69	4786.18	2722.35	2708.77
	SIVASAMUNDRUM HPS	42	20.13	284.19	176.81	145.14
	T B DAM HPS	36	1.73	152.54	97.71	81.16
	TORANGALLU TPS(SBU-I)	260	190.29	1319.47	1675.06	1714.95
	TORANGALLU TPS(SBU-II)	600	301.5	2484.62	2338.1	2700.39
	UDUPI TPP	1200	1050.6	5214.35	6181.32	7875.42
	VARAHI HPS	460	200.45	1243.79	762.44	740.75
	YELHANKA (DG)	127.92	0	0	0	0
	YERMARUS TPP	1600	0	790.93	997.45	246.54
KERALA	BRAMHAPURAM DG	63.96	0	0.28	0.46	5.53
	COCHIN CCPP (Liq.)	174	0	0	42.65	0
	IDAMALAYAR HPS.	75	59.33	345.5	256.26	171.72
	IDUKKI HPS.	780	635.15	2920.43	1611.06	1380.06
	KAKKAD HPS.	50	39.12	221.66	159.88	131.68
	KOZHICODE DG	96	12.13	3.79	1.46	42.19
	KUTTIYADI HPS.	75	17.88	233.75	430.12	327.24
	KUTTIYADI ADDL. EXTN.	100	55.62	270.27	170.94	151.48
	KUTTIYADI EXTN. HPS.	50	14.13	189.36		
	LOWER PERIYAR HPS.	180	35.85	525.18	507.74	307.23
	NARIAMANGLAM HPS	45	35.71	377.85	310.6	197.3
	PALLIVASAL HPS.	37.5	23.61	185.25	188.39	166.05
	PANNIAR HPS.	30	21.25	114.59	129.47	62.33
	PORINGALKUTTU HPS.	32	3.93	94.6	116.74	91.1
	R. GANDHI CCPP (Liq.)	359.58	0	0.81	4.19	15.4
	SABARIGIRI HPS.	300	281.45	1516.4	968.46	798.79
	SENGULAM HPS.	48	24.96	122.98	144.91	115.66
	SHOLAYAR HPS.	54	53.36	202.39	204.69	166.85

PUDUCHERRY	KARAIKAL CCPP	32.5	42.61	229.88	226.45	246.84
TAMIL NADU	ALIYAR HPS.	60	5.33	48.57	90.08	61.73
	BASIN BRIDGE GT (Liq.)	120	0	0.05	6.12	10.98
	BHAWANI BARRAGE-II HPS	30	2.63	77.16	37.62	19.83
	BHAWANI BARRAGE-III	30	0	34.06	0	17.47
	BHAWANI KATTAL	30	1.33	70.21	16.96	20.59
	ENNORE TPS	0	0	0	0	191.99
	ITPCL TPP	1200	1105.07	5544.59	5724.29	4975.7
	KADAMPARI HPS.	400	0.79	434.75	384.36	289.39
	KARUPPUR CCPP	119.8	129.26	647.48	480.13	478.97
	KODAYAR HPS.				123.98	169.43
	KODAYAR-I HPS.	60	11.45	144.11		
	KODAYAR-II HPS.	40	0.01	49.97		
	KOVIKALPAL CCPP	107.88	38.92	315.36	302.47	348
	KUDANKULAM	2000	1101.14	6142.61	8718.54	6466.02
	KUNDAH HPS.				806.23	815.61
	KUNDAH-I HPS.	60	43.32	270.77		
	KUNDAH-II HPS.	175	101.88	678.67		
	KUNDAH-III HPS.	180	56.69	397.66		
	KUNDAH-IV HPS.	100	5.74	172.05		
	KUNDAH-V HPS.	40	6.09	89.84		
	KUTTALAM CCPP	100	29.09	410.27	349.49	380.17
	LOWER METTUR HPS.				131.95	92.27
	LOWER METTUR-I	30	4.06	69.66		
	LOWER METTUR-II	30	2.17	31.68		
	LOWER METTUR-III	30	3.45	65.27		
	LOWER METTUR-IV	30	2.15	53.7		
	MADRAS A.P.S.	440	262.21	1490.93	2975.74	3204.67
	METTUR DAM HPS.	50	10.87	147.96	52.24	44.75
	METTUR TPS	840	1080.43	5807.22	7558.6	9177.43
	METTUR TPS - II	600	726.26	3153.1		
	METTUR TUNNEL HPS.	200	5.91	440.59	163.32	80.73
	MOYAR HPS	36	13.93	161.99	94.4	61.52
	MUTHIARA TPP	1200	346.04	3221.74	3906.24	3749.1
	NEYVELI ( EXT) TPS	420	565.52	2949.65	3247.15	3328.33
	NEYVELI TPS- I	500	500.41	3105.9	3379.73	3696.52
	NEYVELI TPS(Z)	250	260.66	1290.36	1025.27	1078.69
	NEYVELI TPS-II	1470	1828.33	10744.54	10262.56	11052.08
	NEYVELI TPS-II EXP	500	324.75	1931.31	2009.9	1373.25
	NORTH CHENNAI TPS	1830	2065.02	10711.12	10062.78	10092.3
	P.NALLUR CCPP	330.5	0	0	0	189.35
	PAPANASAM HPS.	32	1.55	120.91	115.28	66.54
	PARSON'S VALLEY HPS.	30	0	45.94	27.11	23.95
	PERIYAR HPS.	161	0	703	287.1	93.91
	PYKARA HPS.	59.2	0.04	22.05	0.98	12.74
	PYKARA ULTMATE HPS.	150	40.21	507.96	274.11	192.55
	SAMALPATTI DG	105.7	0	0	0	0
	SAMAYANALLUR DG	106	0	0	0	12.01
	SARKARPATHY HPS.	30	26.6	129.65	85.46	63.29
	SHOLAYAR HPS (TN)	70	0	220.86	157.73	228.11
	SURULIYAR HPS.	35	7.92	92.55	70.69	42.71
	TUTICORIN (JV) TPP	1000	502.64	5486.62	5412.83	6252.04
	TUTICORIN (P) TPP	300	0	0	0	23.62
	TUTICORIN TPS	1050	1280.64	6306.31	5247.18	5547.59
	VALANTARVY CCPP	52.8	51.54	352.86	371.45	378.18
	VALLUR TPP	1500	1202.42	7706.87	7167.72	9210.86
	VALUTHUR CCPP	186.2	227.74	1178.03	1258.51	966.71
TELANGANA	KAKATIYA TPS	1100	1491.33	7727.37	7392.3	6578.52
	KOTHAGUDEM TPS	420	424.75	3611.15	3871.07	3964.11
	KOTHAGUDEM TPS (NEW)	1800	2438.21	9210.48	7131.2	6586.16
	LOWER JURALA HPS	240	0	153.31	205.9	176.34
	LOWER SILERU HPS	460	174.06	1094.06	1109.77	831.9
	NAGARJUN SGR HPS	815.6	17.7	338.82	184.49	186.15
	NAGARJUN SGR LBC HPS	60	0	53.3	12.8	0
	POCHAMPAD HPS	36	0.4	31.7	35.69	75.29
	PRIYADARSHNI JURALA HPS	234	0	165	217.4	211.99
	PULICHINTALA HPS	120	0	17.3	6.6	13
	RAMAGUNDEM - B TPS	62.5	83.42	423.03	474.84	453.7
	RAMAGUNDEM STPS	2600	3151.14	18547.91	18867.65	19597.52
	SINGARENI TPP	1200	1618.23	8698.48	9575.16	4099.33
	SRISAILAM LB HPS	900	20.73	985.18	829.1	617.22

ANDAMAN NICOBAR	AND. NICOBAR DG	40.05	19.89	120.73	258.79	215.56
BIHAR	BARAUNI TPS	710	8.89	44.85	39.48	131.42
	BARH II	1320	1753.33	9845.23	9272.35	7642.01
	KAHALGAON TPS	2340	2502.74	16485.91	16316.65	15947.93
	MUZAFFARPUR TPS	610	670.94	3039.78	1750.61	793.49
	NABI NAGAR TPP	750	764.56	2754.75	1060.94	0
DVC	BOKARO 'B' TPS	210	52.99	688.44	573.94	1456.68
	BOKARO TPS 'A' EXP	500	527.6	2920.75	2924.25	208
	CHANDRAPURA(DVC) TPS	630	689.08	3560.59	4075.82	5642.7
	DURGAPUR STEEL TPS	1000	1230.18	6293.54	6503.85	6655.77
	DURGAPUR TPS	210	34.18	981.28	947.1	592.72
	KODARMA TPP	1000	1275.31	6278.75	5911.3	3801.77
	MAITHON HPS.	63.2	1.28	101.36	114.41	122.03
	MEJIA TPS	2340	2606.7	12744.35	12478.48	12936.78
	PANCHET HPS.	80	4.8	79.79	141.94	133.51
	RAGHUNATHPUR TPP	1200	827.95	3208.4	2279.47	2016.51
JHARKHAND	JOJOBERA TPS	240	282.86	1519.04	1618.38	2274.02
	MAHADEV PRASAD STPP	540	469.85	2876.22	2909.92	3257.47
	MAITHON RB TPP	1050	1221.5	7267.81	7345.34	7356.63
	PATRATU TPS	0	0	0	0	385.88
	SUBERNREKHA HPS.				190.38	30.13
	SUBERNREKHA-I HPS.	65	0.35	51.47		
	SUBERNREKHA-II HPS.	65	0.31	49.72		
	TENUGHAT TPS	420	415.97	1689.05	1933.31	1423.3
ORISSA	BALIMELA HPS.	510	303.88	1732.21	1477.19	1001.38
	CHIPLIMA HPS	72	34.29	168.31		
	DERANG TPP	1200	753.22	4213.6	3657.42	6515.3
	HIRAKUD HPS	275.5	61.76	380.27	863.05	716.97
	IB VALLEY TPS	420	546.88	3085.46	2840.33	3235.67
	ICCL IMP	0	30.21	186.59	296.5	320.25
	KAMALANGA TPS	1050	1228.71	6690.02	5583.99	5932.79
	MACHKUND HPS	114.75	113.54	593.68	467.7	700.31
	NALCO IMP	0	15.56	194.02	279.43	315.43
	RENGALI HPS.	250	55.54	837.89	762.61	553.56
	STERLITE TPP	1200	74.4	828.09	1074.47	7801.53
	TALCHER (OLD) TPS	460	663.49	3606.84	3780.71	3759.53
	TALCHER STPS	3000	3812.57	21242.3	22976.99	22847.48
	UPPER INDRAVATI HPS.	600	403.5	2141.84	1745.57	1521.64
	UPPER KOLAB HPS.	320	139.11	923.25	706.87	619.34
	UTKAL TPP (IND	350	0	0	0	0
SIKKIM	CHUZACHEN HPS	110	69.44	417.4	444.79	494.75
	DIKCHU HPS	96	81.31	462.24	370.1	
	JORETHANG LOOP	96	37.69	409.75	406.01	405.63
	RANGIT HPS	60	52.03	349.09	345.91	347.14
	TASHIDING HPS	97	40.62	423.73	73.07	0
	TEESTA V HPS	510	580.35	2701.46	2818.78	2773.46
	TEESTA-III HPS	1200	1116.67	4258.4	4429.33	309.42
WEST BENGAL	BAKRESWAR TPS	1050	1439.12	7182.26	7486.77	7050.54
	BANDEL TPS	330	204.99	1315.39	1926.03	1885.02
	BUDGE BUDGE TPS	750	1049.73	6011.69	6033.39	5410.75
	D.P.L. TPS	660	544.06	2442.23	2524.46	2143.41
	FARAKKA STPS	2100	2444.88	14846.44	13356.91	13743.98
	HALDIA GT (Liq.)	40	0	0	0	0
	HALDIA TPP	600	753.52	4614.74	4525.89	4015.49
	HIRANMAYE TPP	300	0	80.71	27.48	
	JALDHAKA HPS ST-I	36	34.96	197.04	145.18	205.46
	KASBA GT (Liq.)	40	0	0	0	0
	KOLAGHAT TPS	1260	772.6	4422.88	4749.84	6038
	PURULIA PSS HPS.	900	161.24	1103.97	1014.37	1106.97
	RAMMAM HPS.	50	23.36	236.93	122.47	248.42
	SAGARDIGHI TPS	1600	1236.81	6051.94	6341.75	4877.43
	SANTALDIH TPS	500	674.12	3552.62	2941.59	3667.33
	SOUTHERN REPL. TPS	135	101.32	283.78	303.76	410.68
	TEESTA LOW DAM-III HPS	132	93.79	572.06	386.87	553.87
	TEESTA LOW DAM-IV HPS	160	114.93	708.45	495.15	602.53
	TITAGARH TPS	240	0	0	0	232.81

ARUNACHAL PRADESH	PARE	110	62.9	347.16	0	0
	RANGANADI HPS.	405	172.88	1051.86	1416.74	1249.01
ASSAM	BONGAIGAON TPP	750	708.16	2824.21	1732.17	1680.27
	KARBI LANGPI HPS.	100	40.34	372.72	484.98	396.59
	KATHALGURI CCPP	291	285.69	1639.49	1598.25	1572.63
	KHONDONG HPS.	50	35.46	203.82	260.77	197.1
	KOPILI HPS.	200	148.95	1117.82	1172.83	1088.27
	LAKWA GT	97.2	56.15	464.66	657.03	888.73
	LAKWA REPLACEMENT POWER PROJ.	69.76	91.18	287.86		
	NAMRUP CCPP	161.25	41.86	314.4	326.86	354.88
MANIPUR	LEIMAKHONG DG	36	0	0	0	0
	LOKTAK HPS.	105	70.89	602.61	837.74	741.07
MEGHALAYA	KYRDEMKULAI HPS.	60	15.16	134.84	132.18	65.29
	MYNTDU(LESHKA) St-1 HPS	126	54.4	362.95	502.47	391.65
	NEW UMTRU HPS	40	14.68	180.03	159.52	0
	UMIAM HPS ST-I	36	10.61	85.11	128.65	96.65
	UMIAM HPS ST-IV	60	16.34	166.6	217.44	166.01
MIZORAM	TUIRIAL HPS	60	7.89	168.44	78.37	
NAGALAND	DOYANG HPS.	75	5.54	231.47	274.39	258.94
TRIPURA	AGARTALA GT	135	116.01	650.63	688.27	904.58
	BARAMURA GT	58.5	28.99	173.54	177.88	188.25
	MONARCHAK CCPP	101	110.08	681.27	671.53	172.05
	ROKHIA GT	111	74.31	414.03	408.43	435.94
	TRIPURA CCPP	726.6	872.93	4711.38	4053.16	4173.07
Bhutan (IMP)	Bhutan (IMP)		592.7	4406.62	4778.33	5617.34
		278392.07	226010.27	1249336.7	1206306.25	1160140.94

Note: \* Tentative

1. Gross Generation from conventional sources (Thermal, Hydro and Nuclear) stations of 25 MW and above only.
2. Figures given above indicate gross generation of all power stations(Central, State& Private Sector) located geographically in the respective State/UT.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3010  
TO BE ANSWERED ON 11.07.2019

OUTPUT OF NTPC PLANT AT TANDA

3010. SHRI RITESH PANDEY:

Will the Minister of POWER  
be pleased to state:

- (a) the output of NTPC plant at Tandaduring 2018-19 and 2019-20, Month-wise;
- (b) whether the output was below average in January and February 2019;
- (c) if so, the reasons therefor; and
- (d) the details of the breakdown of the amount of power purchased by the Government of Uttar Pradesh during 2017-18, 2018-2019 and 2019-2020, Supplier-wise?

A N S W E R

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

( SHRI R.K. SINGH)

(a) to (c): The month wise power output of NTPC plant at Tanda during year 2018-19 and 2019-20, is given at Annexure-I. The Power output was less in February, 2019 and March, 2019 as all units were under shut down from 15.02.2019 to 23.03.2019 due to Grid restriction. The shutdown (planned shutdown) was extended upto 31.03.2019 for mandatory Boiler Inspection.

(d) : The details of the power purchased by Government of Uttar Pradesh during 2017-18, 2018-2019 and 2019-2020 is at Annexure-II.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 3010 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Power output of NTPC plant at Tanda during year 2018-19 and 2019-20

FY 2018-19		FY 2019-20	
Month	Generation (MUs)	Month	Generation (MUs)
April, 2018	216.9	April, 2019	216.1
May, 2018	207.1	May, 2019	189.1
June, 2018	231.6	June, 2019	200.9
July, 2018	188.8		
August, 2018	211.4		
September, 2018	200.6		
October, 2018	257.6		
November, 2018	253.4		
December, 2018	234.2		
January, 2019	255.9		
February, 2019	110.4		
March, 2019	3.7		

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ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 3010 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Details of Power Purchased by Uttar Pradesh			
ORGANISATION / PROJECT	F.Y-2017-18	F.Y-2018-19	F.Y-2019-20 (Upto Apr-19)
	Energy in MU	Energy in MU	Energy in MU
a) <u>State &amp; Other Sector</u> : -			
UPRVUNL	28801.63	29636.12	2268.85
UPJVNL	1269.56	989.23	0.00
IPP	46745.92	42081.06	3734.21
COGENERATORS	3775.72	4488.88	506.55
SOLAR	517.66	875.39	90.27
MICRO HYDEL	1.84	1.58	0.00
CPP	81.56	56.11	0.00
Total	81193.89	78128.37	6599.89
b) <u>Central Sector</u> : -			
NAPP	1095.08	1030.35	104.00
RAPP B (III & IV)	560.47	480.47	45.45
RAPP C ( V & VI)	734.49	866.12	66.76
TAPP 3 & 4	0	22.37	2.64
KAPS	0	3.19	0.53
NPCIL	2390.04	2402.51	219.38
SALAL	214.25	224.13	29.54
TANAKPUR	68.39	72.92	8.65
URI I,II	731.7	958.25	113.68
CHAMERA-I	459.65	491.59	67.45
CHAMERA-II	354.78	395.26	52.15
CHAMERA-III	240.36	256.23	34.56
DHAULIGANGA	253.22	271.33	26.13
DULHASTI	563.83	595.36	60.6
SEWA II	128.28	132.97	26.45
PARBATI-III	159.3	155.70	10.61
KISHANGANGA	0	212.86	57.35
NHPC	3173.76	3766.59	487.17
ANTA	96.9	56.79	24
AURAIYA	55.47	23.15	0
DADRI (Gas)	486.26	279.38	75.42
UNCHAHAHAR-I,II,III & IV	2988.94	2254.98	198.32
ER POWER	200.03	153.75	10.44
KAHALGAON -I, II	2073.3	1597.89	85.77
Koldam (Hydro Power Station)	625.78	634.00	46.23
DADRI Th-I	643.88	339.11	17.62
DADRI Th-II	601.19	332.07	30.61

RIHAND-I,II,III	7672.89	6947.93	584.67
SINGRAULI	5570.35	5186.58	399.47
TANDA	2938.29	2091.00	184.13
SINGRAULI SHPS	0	6.20	0.31
JHANOR GPS	0	2.21	0
KORBA-I STPS	0	17.84	2.22
KORBA-III STPS	0	10.36	0.78
KAWAS GPS	0	2.82	0.13
MAUDA-I GPS	0	25.19	1.29
MAUDA-II GPS	0	32.61	4.73
SOLAPUR TPS	0	9.00	0
SIPAT-I	0	43.75	4.58
SIPAT-II STPS	0	12.17	1.47
VINDHYACHAL-I STPS	0	15.41	1.32
VINDHYACHAL-II STPS	0	11.71	1.32
VINDHYACHAL-III STPS	0	12.39	1.30
VINDHYACHAL-IV STPS	0	17.92	1.51
VINDHYACHAL -V STPS	0	8.34	0.74
NTPC	23953.28	20124.57	1678.38
TEHRI	1188.92	1279.14	98.28
KOTESHWAR	485.77	526.82	44.77
THDC	1674.69	1805.96	143.05
NVVN BUNDLED THERMAL POWER	674.63	609.47	73.7
NVVN BUNDLED SOLAR POWER	212.56	331.52	37.28
SJVNL	1476.65	1452.16	130.4
TALA (PTC)	127.43	112.03	3.03
TEESTA-III	0	742.96	59.37
Bilateral Agreements & IEX &PEX	3848.92	5422.40	272.16
WIND POWER	0	230.42	49.47

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3014  
TO BE ANSWERED ON 11.07.2019

SETTING UP OF POWER PLANTS

†3014. SHRI ASHOK KUMARRAWAT:

Will the Minister of POWER  
be pleased to state:

- (a) whether any steps have been taken or proposed to be taken by the Government to set up power plants of NTPC at various locations of Misrikh region in Uttar Pradesh including Hardoi and Sitapur;
- (b) if so, the details thereof, location-wise;
- (c) whether any survey has been conducted to set up power plants in the said region;
- (d) if so, the details thereof; and
- (e) the time by which the power plants are likely to be established in the said region and the estimated cost likely to be incurred thereon?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b): NTPC is setting up two Solar Power Projects of 140 MW and 85 MW capacity in Bilhaur under Misrikh parliamentary constituency of Uttar Pradesh. NTPC has won these projects against UPNEDA's Solar tenders based on Tariff based Competitive bidding guidelines. Presently, both Projects are under implementation and are likely to be operational by November-2020. The likely estimated cost of these two projects is Rs. 1078.13 Crore.

(c) & (d): Central Electricity Authority (CEA) had got the studies conducted by CMPDI and NRSA for identification of sites for thermal power plants based on satellite mapping using remote sensing technology during the period 2003 to 2014. Two sites viz. Sandila and Pihani in Hardoi with potential of 2000 MW each were identified as potential sites for thermal power plants in the Misrikh region of Uttar Pradesh.

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

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3016  
TO BE ANSWERED ON 11.07.2019

NEW POWER PROJECTS

3016. MS. RAMYA HARIDAS:

Will the Minister of POWER  
be pleased to state:

- (a) whether the use of electricity in the country has increased during the last ten years;
- (b) if so, the details thereof;
- (c) whether the production of electricity in the country is enough for meeting the demand and if so, the details thereof and if not, the reasons therefor; and
- (d) the new power projects approved by the Government under the Central scheme in the country especially in Kerala?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b): The per capita consumption of electricity has increased from 779 units during 2009-10 to 1181 units during 2018-19.

(c): As on 30<sup>th</sup> June, 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 during the current year was around 184 GW which was successfully met.

(d): Generation is a delicensed activity under Electricity Act 2003. Electricity Generation projects are set by various utilities and State / Central Public Sector Undertakings (CPSUs) keeping in view the demand for power and techno-commercial viability. During the year 2019, the investment approval has been granted by the Central Government for Khurja Super Thermal Power Project (1320 MW) in Uttar Pradesh, Buxar Thermal Power Project (1320 MW) in Bihar, Kiru Hydro Electric Project (624 MW) in Jammu & Kashmir and Teesta-VI Hydro Electric Project (500 MW) in Sikkim.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3018  
TO BE ANSWERED ON 11.07.2019

ELECTRICITY GRID

3018. SHRI B.B. PATIL:

Will the Minister of POWER  
be pleased to state:

- (a) whether a large population in the country do not have access to the electricity grid and are living in complete darkness and if so, the details thereof along with the reasons therefor;
- (b) whether kerosene lanterns are used by them which are extremely harmful to health and if so, the details thereof along with the corrective steps being taken in this regard; and
- (c) the steps being taken by the Government to provide electricity to all in the country?

A N S W E R

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

( SHRI R.K. SINGH)

(a) to (c): Government of India launched the Pradhan Mantri Sahaj Bijli Har Ghar Yojana - Saubhagya in October, 2017 with the aim to achieve universal household electrification by providing electricity connections to all remaining un-electrified households in rural and all poor households in urban areas across the country. The Scheme includes provision of solar based standalone systems to provide electricity to un-electrified households in remote & inaccessible villages/habitations, where grid extension is not feasible or cost is prohibitive.

All States have declared electrification of all households on Saubhagya portal, except 18,734 households in LWE affected areas of Chhattisgarh as on 31.03.2019. Subsequently, Government of Rajasthan reported that some additional households remained to be electrified. They have been asked to electrify the remaining households quickly.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3021  
TO BE ANSWERED ON 11.07.2019

VILLAGE ELECTRIFICATION IN NORTH EAST REGION

†3021.SHRI NABA KUMARSARANIA:

Will the Minister of POWER  
be pleased to state:

- (a) the number of villages where electricity has been provided so far in the country, State/UT-wise;
- (b) the number of villages electrified in North East region so far, State-wise;
- (c) the number of villages yet to be electrified in North East region, State-wise including Assam;
- (d) the time by which these are likely to be electrified;
- (e) the scheme under which these villages are being electrified; and
- (f) whether the Government proposes to provide any subsidy in this regard and if so, the details thereof?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (e): As reported by the States, all inhabited census villages across the country stand electrified on 28.04.2018, including those in North East region.

(f): Question does not arise.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3046  
TO BE ANSWERED ON 11.07.2019

FINANCIAL ASSISTANCE TO JHARKHAND FOR POWER GENERATION

3046. DR. NISHIKANT DUBEY:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government of Jharkhand has sought additional financial assistance from the Union Government for increasing power generation in the State during each of the last three years;
- (b) if so, the details thereof;
- (c) whether the Union Government proposes to sanction the funds required for the said purpose; and
- (d) if so, the details thereof?

A N S W E R

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

( SHRI R.K. SINGH)

(a) : The Government of Jharkhand has not sought any additional financial assistance from the Union Government for increasing power generation in the State during the last three years.

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

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3060  
TO BE ANSWERED ON 11.07.2019

AGREEMENTS FOR SAUBHAGYA

3060. SHRI REBATI TRIPURA:  
SHRI AJAY NISHAD:  
SHRI MANOJ TIWARI:  
SHRI SANTOSH KUMAR:  
SHRI VIJAY KUMARDUBEY:  
SHRI ANURAG SHARMA:

Will the Minister of POWER  
be pleased to state:

- (a) the details of efforts being made by the Government to achieve the objectives of Pradhan Mantri Sahaj Bijli Har Ghar Yojana "Saubhagya" in near future in each State/UT including North East region;
- (b) whether the Government has made any time limit to achieve these objectives and if so, the details thereof and if not, the reasons therefor;
- (c) the details of the agreements signed/made for achieving the objectives of this Yojana, State/UT-wise; and
- (d) the details of the allocation made for the year 2019-20, State/UT-wise?

A N S W E R

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

( SHRI R.K. SINGH)

(a) to (c): Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana - Saubhagya, in October 2017, with an outlay of Rs.16,320 crore to achieve universal household electrification by providing electricity connections to all remaining un-electrified households in rural and all poor households in urban areas across the country.

All States have declared electrification of all households on Saubhagya portal, except 18,734 households in LWE affected areas of Chhattisgarh. Since the launch of Saubhagya scheme, 2.63 crore households were electrified across the country up to 31.03.2019. The State-wise details are given at Annexure. Subsequently Government of Rajasthan on 01.07.2019 has reported that an additional 1,45,528 un-electrified households in the State and Government of Chhattisgarh on 14.06.2019 has reported 40,394 un-electrified households. They have been advised to complete connecting these households.

(d): The time-line for electrification under Saubhagya Scheme was 31.03.2019, hence question does not arise.

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## ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO.3060 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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State-wise number of households electrified as per Saubhagya portal during the period from 11.10.2017 to 31.03.2019.

Sl.No.	Name of the States	Number of households electrified
1	Andhra Pradesh	1,81,930
2	Arunachal Pradesh	47,089
3	Assam	17,45,149
4	Bihar	32,59,041
5	Chhattisgarh	749,397
6	Gujarat	41,317
7	Haryana	54,681
8	Himachal Pradesh	12,891
9	Jammu & Kashmir	3,87,501
10	Jharkhand	15,30,708
11	Karnataka	3,56,974
12	Madhya Pradesh	19,84,264
13	Maharashtra	15,17,922
14	Manipur	1,02,748
15	Meghalaya	1,99,839
16	Mizoram	27,970
17	Nagaland	1,32,507
18	Odisha	24,52,444
19	Puducherry	912
20	Punjab	3,477
21	Rajasthan	18,62,736
22	Sikkim	14,900
23	Tamil Nadu	2,170
24	Telangana	5,15,084
25	Tripura	1,39,090
26	Uttar Pradesh	79,80,568
27	Uttarakhand	2,48,751
28	West Bengal	7,32,290
Total		2,62,84,350

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3075  
TO BE ANSWERED ON 11.07.2019

DEPENDENCE ON IMPORTED COAL

†3075.SHRI CHANDAN SINGH:

Will the Minister of POWER  
be pleased to state:

- (a) whether a number of power generating projects in the country are dependant on imported coal;
- (b) if so, the details thereof, project-wise;
- (c) whether imported coal has increased the cost of power generation and consumers have to pay for this; and
- (d) if so, the details thereof along with the increase in the cost of electricity?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b) : Yes, Sir. Some power plants have been designed to operate on imported coal. As per data available with the Central Electricity Authority (CEA), the details of coal based thermal power plants designed to operate on imported coal are given at Annexure. In addition, some power plants use imported coal for blending with domestic coal.

(c) & (d): The variable charge of a thermal power plant depends upon various factors like price, gross calorific value and transportation cost of imported and domestic coal. The power purchased by Distribution licensee for supply to consumers is based on the merit order despatch system. Accordingly, the cheapest power is scheduled first and the costliest may or may not get scheduled and is dependent upon the electricity demand of the consumer.

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## ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3075 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Coal based thermal power plants in the country are designed to operate on imported coal

Sl. No.	Name of Thermal Power Station	Capacity (MW)
1	Sikka TPS	500
2	Trombay TPS	1250
3	Ratnagiri TPS	1200
4	Torangullu SBU-I TPS	260
5	Torangullu SBU-II TPS	600
6	Mundra TPS	4620
7	Udupi TPS	1200
8	Mundra UMTPP	4000
9	ESSAR (Salaya) TPS	1200
10	Simhapuri TPS	600
11	Thaminapattnam TPS	300
12	Muthiara TPS	1200
13	ITPCL-Cuddalore TPS	1200

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3077  
TO BE ANSWERED ON 11.07.2019

TRANSMISSION AND DISTRIBUTION LOSSES

†3077. SHRI MANSUKHBHAIDHANJIBHAI VASAVA:  
SHRI GNANATHIRAVIAMS.:

Will the Minister of POWER  
be pleased to state:

- (a) the targets fixed for bringing down transmission and distribution losses in the country during each of the last three years and the current year along with the achievements made in this regard, State/UT-wise;
- (b) whether the Government proposes to give performance-based incentives to the States for reducing transmission and distribution losses;
- (c) if so, the details thereof;
- (d) whether the Government also proposes to provide several crores to revamp and revitalize the entire power transmission and distribution system; 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 THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP

( SHRI R.K. SINGH)

- (a) : Government of India launched the UjwaIDiscom Assurance Yojana (UDAY) in November 2015 for the financial and operational turnaround of State-owned Power Distribution Companies (DISCOMS) and under the scheme, it is targeted to reduce Aggregate Technical & Commercial (AT&C) losses to 15% by FY 2018-19.

As per latest provisional data provided by States on UDAY Portal, State Power Distribution Utilities have reported improvement in Aggregate Technical & Commercial (AT&C) losses, which have come down from 20.80% in 2015-16 to 18.76% in 2017-18.

The state /UT wise targets & achievements of AT&C losses are at Annexure.

(b) to (e) : The responsibility for reduction of AT&C losses in the Distribution network rests with the State Power Departments/Utilities. Government of India have launched various schemes such as Integrated Power Development Scheme (IPDS), Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and UjwalDiscom Assurance Yojana (UDAY) to enable States to improve their Distribution infrastructure systems and management of Discoms so that AT&C losses are reduced. Projects under IPDS/DDUGJY schemes envisage creation /augmentation of sub-transmission & distribution infrastructure, metering of distribution transformers/feeders/ consumers, underground (UG) and aerial bunched (AB) cables including IT enablement of distribution infrastructures for reduction of AT&C losses etc.

Under IPDS and DDUGJY , funding of up to 60% of scheme cost is provided as grant [85% for special category States] as per the guidelines. Additional 15% of sanction cost (5% for special category States) is provided as grant on achievement of various milestones including reduction of AT&C losses to a level as per the trajectory agreed upon between States and Ministry of Power, Government of India. Further, based on performance of state under UDAY, including AT&C losses reduction, funds have been sanctioned for Smart Metering under IPDS.

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## ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3077 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Statement of AT&C Loss (Achievements) for FY 16, FY17, FY18 and FY19 against MoU Targets							
Sl. No.	Parameter	Unit	Achievement 2015-16 (Baseline data)	MoU Target 2016-17	Achievement 2016-17	MoU Target 2017-18	Achievement 2017-18
1	Andhra Pradesh	(In %)	9.41	9.26	10.96	9.00	8.69
2	Arunachal Pradesh	(In %)	64.27	52.41	35.88	43.00	65.45
3	Assam	(In %)	25.51	19.00	23.81	17.75	15.71
4	Bihar	(In %)	43.74	36.43	38.97	29.03	33.19
5	Chhattisgarh	(In %)	21.79	18.93	19.34	18.00	18.8
6	Dadra and Nagar Haveli	(In %)	Data Not Given	7.95	9.23	7.50	6.09
7	Daman and Diu	(In %)	13.25	10.33	10.65	9.32	10.34
8	Goa	(In %)	17.12	18.75	16.79	16.59	16.12
9	Gujarat	(In %)	15.04	14.00	12.28	13.50	11.71
10	Haryana	(In %)	29.83	24.02	25.43	20.04	20.29
11	Himachal Pradesh	(In %)	12.92	13.25	8.48	13.00	12.14
12	Jammu & Kashmir	(In %)	61.6	46.00	61.34	35.00	53.78
13	Jharkhand	(In %)	34.71	28.00	31.8	22.00	31.78
14	Karnataka	(In %)	14.94	15.50	15.36	15.00	14.48
15	Kerala	(In %)	16.03	11.45	17.28	11.23	12.05
16	Madhya Pradesh	(In %)	23.97	21.15	26.53	19.15	29.74
17	Maharashtra	(In %)	19.07	16.74	18.88	17.51	17.41
18	Manipur	(In %)	44.21	28.89	36.89	20.33	24.61
19	Meghalaya	(In %)	36.48	32.51	34.87	27.50	34.64
20	Puducherry	(In %)	19.88	19.00	18.98	15.00	19.56
21	Punjab	(In %)	15.9	15.30	14.46	14.50	17.26
22	Rajasthan	(In %)	30.41	20.11	26.02	17.57	20.02
23	Sikkim	(In %)	38.06	29.50	40.59	25.94	32.57
24	Tamil Nadu	(In %)	14.58	14.05	14.53	13.79	14.23
25	Telangana	(In %)	13.95	12.45	15.88	11.19	13.5
26	Tripura	(In %)	20.94	30.00	16.61	25.00	15.52
27	Uttar Pradesh	(In %)	26.47	28.27	30.21	23.63	27.67
28	Uttarakhand	(In %)	17.19	16.00	14.02	15.00	15.73
	UDAY States Average	(In %)	20.8	18.74	20.25	16.83	18.76

(Above data for AT&C is based on provisional / unaudited data as submitted by States /DISCOMs on UDAY portal )

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3088  
TO BE ANSWERED ON 11.07.2019

IPDS

3088. SHRI Y.S. AVINASH REDDY:  
DR. (PROF.) KIRITPREMJIBHAI SOLANKI:

Will the Minister of POWER  
be pleased to state:

- (a) the salient features of the Integrated Power Development Scheme(IPDS) and the status of its implementation in the country;
- (b) the total budgetary allocation made along with the quantum of funds released under the said scheme, State/UT-wise including Andhra Pradesh;
- (c) the steps taken by the Government under the scheme to reduce Aggregate Technical & Commercial(AT&C) losses and to ensure 24x7 power supply as mentioned under the objectives of the scheme; and
- (d) the details of completion of work in different towns of Andhra Pradesh under the said scheme?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b): The Integrated Power Development Scheme (IPDS) was approved by the Government of India on 20.11.2014 with the aim to provide quality and reliable power supply in the urban areas with the following components:

- i. Strengthening of Sub-transmission and Distribution network in urban areas;
- ii. Metering of feeders/distribution transformers/consumers in urban areas;

- iii. IT enablement of distribution sector and strengthening of distribution network, being undertaken under R-APDRP (Restructured Accelerated Power Development and Reforms Programme) as subsumed component.

The IPDS Scheme has a total outlay of Rs.32,612 crore including a budgetary support of Rs.25,354 crore from the Government of India for new projects in addition to a total outlay of Rs.44,011 crore including budgetary support of Rs.22,727 crore under subsumed components of R-APDRP. New Projects worth Rs.32,059 crore have been sanctioned in 546 circles of 32 states/UTs and Rs.8,648 crore have been disbursed. State-wise details are placed at Annexure-I.

As on 15.06.2019, sub transmission & distribution works have been reported completed in 299 circles by the Utilities including 13 circles of Andhra Pradesh.

(c) : Under IPDS scheme, central funding is being provided for strengthening of sub-transmission and distribution networks in the urban areas and metering of distribution transformers/feeders/ consumers for reduction of Aggregate Technical & Commercial (AT&C) losses. Funds have also been sanctioned under IPDS for Under Ground (UG) cabling and Aerial Bunched (AB) cables.

(d) : Details of completion of works in Andhra Pradesh (circle-wise) are placed at Annexure-II.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3088 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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State- wise details of funds sanctioned and disbursed under IPDS

Amount in Rs crore				
Sl.No.	State/UT	Utility	Total Approved Cost	Total GoI Grant Released
1	Andaman and Nicobar Islands	AN-DISCOM	18	1
2	Andhra Pradesh	APEPDCL	466	165
3	Andhra Pradesh	APSPDCL	475	184
4	Arunachal Pradesh	Arunachal-PD	159	13
5	Assam	APDCL	742	157
6	Bihar	NBPDCL	1,449	442
7	Bihar	SBPDCL	1,712	198
8	Chhattisgarh	CSPDCL	656	71
9	Delhi	NDMC	198	33
10	Goa	Goa-PD	84	2
11	Gujarat	DGVCL	197	34
12	Gujarat	MGVCL	398	203
13	Gujarat	PGVCL	488	198
14	Gujarat	UGVCL	251	19
15	Haryana	DHBVNL	362	53
16	Haryana	UHBVNL	130	13
17	Himachal Pradesh	HPSEBL	190	33
18	Jammu & Kashmir	JKPDD	521	38
19	Jharkhand	JBVNL	790	292
20	Karnataka	BESCOM	545	249
21	Karnataka	CESCOM	257	59
22	Karnataka	GESCOM	191	69
23	Karnataka	HESCOM	309	92
24	Karnataka	MESCOM	213	86
25	Kerala	CPT	5	1
26	Kerala	KSEBL	731	107
27	Madhya Pradesh	MPMKVVCL-C	528	87
28	Madhya Pradesh	MPPKVVCL-E	619	150
29	Madhya Pradesh	MPPKVVCL-W	655	128
30	Maharashtra	BEST	105	19
31	Maharashtra	MSEDCL	2,555	451
32	Manipur	Manipur-PD	157	96
33	Meghalaya	MePDCL	108	15
34	Mizoram	Mizoram-PD	111	20
35	Nagaland	Nagaland-PD	138	31
36	Odisha	CESU	310	120
37	Odisha	NESCO	351	173
38	Odisha	SOUTHCO	288	129
39	Odisha	WESCO	289	133
40	Puducherry	Puducherry-PD	22	4
41	Punjab	PSPCL	465	69
42	Rajasthan	AjVVNL	493	70
43	Rajasthan	JaVVNL	618	87
44	Rajasthan	JoVVNL	494	72
45	Sikkim	Sikkim-PD	161	10
46	Tamil Nadu	TANGEDCO	1,854	304
47	Telangana	TSNPDCL	255	108
48	Telangana	TSSPDCL	514	225
49	Tripura	TSEC	221	24
50	Uttar Pradesh	DVVNL	858	383
51	Uttar Pradesh	KESCO	496	251
52	Uttar Pradesh	MVVNL	824	338
53	Uttar Pradesh	PaVVNL	1,723	740
54	Uttar Pradesh	PoVVNL	1,527	648
55	Uttarakhand	UPCL	725	136
56	West Bengal	DPL	59	10
57	West Bengal	WBSEDCL	3,000	807
	Total :		32,059	8,648

Source: Power Finance Corporation (PFC)

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ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 3088 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Status of works in Andhra Pradesh

System strengthening of sub-transmission and distribution system

Utility	Circle name	Progress of work
APEPDCL	Eluru	Completed
	Rajahmundry circle	Completed
	Srikakulam	Completed
	Vishakhapatnam	Completed
	Vizianagaram	Completed
APSPDCL	Anantapuram	Completed
	Guntur	Completed
	Kadapa	Completed
	Kurnool	Completed
	Nellore	Completed
	Ongole	Completed
	Tirupati	Completed
	Vijayawada	Completed

IT Phase-II

Utility	Towns Covered (No)	No. of towns Go-Live w.r.t. feeder data at NPP
APEPDCL	8	8
APSPDCL	11	11

Enterprise Resource Planning (ERP)

Utility	Sanction cost (Rs Cr)	Completion Status
APEPDCL	11	Awarded. Under implementation
APSPDCL	14	

Real Time-Data Acquisition System (RT-DAS) and Gas Insulated Sub-station (GIS) , funds worth Rs. 16 cr. And 115 cr. have been sanctioned respectively.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3092  
TO BE ANSWERED ON 11.07.2019

ASSESSMENT OF UDAY

3092. DR. MANOJ RAJORIA:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government has assessed the performance of UjwalDISCOM Assurance Yojana (UDAY) which was launched for the much needed revival of distribution utilities;
- (b) if so, the details thereof; and
- (c) the steps taken by the Government for persuading/convincing the States for clearing their entire outstanding dues?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b) : The Government is continuously conducting performance assessments of Ujwal DISCOM Assurance Yojana (UDAY) in the Monitoring Committee Meetings & focused meetings with States/DISCOMs. As per provisional data provided by States on UDAY Portal, State Power Distribution Utilities have reported improvement in their performance in a number of parameters: (i) AT&C losses have come down from 20.80% in FY 2015-16 to 18.76% in 2017-18 and (ii) ACS – ARR Gap has come down from 60 paise per unit in 2015-16 to 17 paise per unit in 2017-18.

(c): Ministry of Power has continuously been taking up the matter with the states and has written to all the Chief Secretaries of the States/UTs in March 2019 to clear their entire outstanding dues.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3105  
TO BE ANSWERED ON 11.07.2019

LAND ACQUIRED BY NTPC

†3105.DR. VIRENDRA KUMAR:

Will the Minister of POWER  
be pleased to state:

- (a) whether the construction of boundary wall has been completed by NTPC after acquiring the land in the Chhatarpur district of Madhya Pradesh;
- (b) if so, the details thereof and if not, the time by which the work is likely to be completed; and
- (c) the number of such proposal spending before the Government for consideration in the country including the district of Chhatarpur in Madhya Pradesh alongwith the time by which a decision is likely to be taken in the matter and work to start?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b): At Barethi STPP located in Chhatarpur district of Madhya Pradesh, total length of boundary wall to be constructed is 12.25km for NTPC acquired land in Main Plant. Construction work of 9 km length has already been completed and the remaining work of 3.25 km is likely to be completed by FY-2019-20.

(c) : After enactment of the Electricity Act 2003, electricity generation is a delicensed activity and any generating company can setup a thermal power project taking into consideration issues like viability, availability of fuel etc. As such Techno- Economic clearance of Central Electricity Authority (CEA) is not required for setting up of thermal power projects and proposals for thermal power projects are not being received in CEA.

GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3114  
TO BE ANSWERED ON 11.07.2019

MODERNISATION OF HYDRO POWERPROJECTS

3114. DR. AMOL RAMSINGKOLHE:  
SHRI KULDEEP RAISHARMA:  
SHRIMATI SUPRIYASULE:  
DR. HEENA GAVIT:  
DR. SUBHASH RAMRAOBHAMRE:  
SHRI SUNIL DATTATRAYTATKARE:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government has assessed the potential of States which are capable of generating hydro power;
- (b) if so, the details thereof along with the steps being taken by the Government to harness the potential;
- (c) the details of the improvement/modernisation carried out to increase the output of various hydel power projects and the funds allocated and utilised for the said purpose during each of the last three years and the current year, State/UT-wise; and
- (d) whether various hydro power projects allotted to the private sector in various States are yet to take off and if so, the details thereof along with the reasons for delay, project-wise?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b): As per reassessment studies of hydroelectric potential carried out by the Central Electricity Authority (CEA) in the country during the year 1978-87, the assessed hydro power potential (above 25 MW) is 1,45,320 MW. The state-wise details of potential and its status of development are enclosed at Annexure-I.

Recently, to promote Hydro Power Sector, Government has approved the following measures:

1. Declaring Large Hydro Power (LHPs) (> 25 MW projects) as Renewable Energy source;
2. Hydro Purchase Obligation (HPO) as a separate entity within Non-solar Renewable Purchase Obligation (RPO);
3. Tariff rationalization measures for bringing down hydro power tariff in initial years;
4. Budgetary Support for Flood Moderation/Storage Hydro Electric Projects (HEPs);
5. Budgetary Support to Cost of Enabling Infrastructure, i.e. roads/bridges etc.

(c) : During last three years (i.e. 2016-17, 2017-18 and 2018-19) and the current year 2019-20 (upto June), improvement / modernisation of 7 schemes (3 schemes in Central Sector and 4 schemes in State Sector) with an aggregate installed capacity of about 1914.4 MW have been completed and achieved a benefit of 116.8 MW through Life Extension. The state - wise list of these hydro Renovation & Modernisation (R&M) schemes are given at Annexure-II.

(d) : 104 Hydro Electric Projects (HEPs) with installed capacity (IC) of 38,751 MW have been allotted to the Private Sector for development by various States. Out of these, 91 HEPs with installed capacity of 36,269 MW have not taken off for construction. Details of these 91 HEPs with reasons for delay are given at Annexure-III.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3114 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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STATUS OF HYDRO ELECTRIC POTENTIAL DEVELOPMENT\*  
(In terms of Installed Capacity – Above 25 MW)

Region/ State	Identified Capacity as per reassessment study		Capacity In Operation**		Capacity Under Construction**	
	Total (MW)	Above 25 MW	(MW)	%	(MW)	(%)
<b>NORTHERN</b>						
Jammu & Kashmir	14146	13543	3449.0	25.47	1935.5	14.29
Himachal Pradesh	18820	18540	9809.0	52.91	1885.0	10.17
Punjab	971	971	1096.3	100	206.0	21.22
Haryana	64	64	0.0	0	0.0	0.00
Rajasthan	496	483	411.0	85.09	0.0	0.00
Uttarakhand	18175	17998	3756.4	20.87	1490.0	8.28
Uttar Pradesh	723	664	501.6	75.54	0.0	0.00
Sub Total (NR)	53395	52263	19023.3	36.40	5516.5	10.56
<b>WESTERN</b>						
Madhya Pradesh	2243	1970	2235.0	100	400.0	20.30
Chhattisgarh	2242	2202	120.0	5.45	0.0	0.00
Gujarat	619	590	550.0	100	0.0	0.00
Maharashtra	3769	3314	2647.0	79.87	0.0	0.00
Goa	55	55	0.0	0.00	0.0	0.00
Sub-total (WR)	8928	8131	5552.0	68.28	400.0	4.92
<b>SOUTHERN</b>						
Andhra Pradesh	2366	2341	1610.0	68.77	960.0	41.01
Telangana	2058	2019	800.0	39.62	0.0	0.00
Karnataka	6602	6459	3644.2	56.42	0.0	0.00
Kerala	3514	3378	1856.5	54.96	100.0	2.96
Tamil Nadu	1918	1693	1778.2	100	0.0	0.00
Sub Total (SR)	16458	15890	9688.9	60.97	1060.0	6.67
<b>EASTERN</b>						
Jharkhand	753	582	170.0	29.21	0.0	0.00
Bihar	70	40	0.0	0.00	0.0	0.00
Odisha	2999	2981	2142.3	71.86	0.0	0.00
West Bengal	2841	2829	441.2	15.60	120.0	4.24
Sikkim	4286	4248	2169.0	51.06	1133.0	26.67
Sub Total (ER)	10949	10680	4922.5	46.09	1253.0	11.73
<b>NORTH EASTERN</b>						
Meghalaya	2394	2298	322.0	14.01	0.0	0.00
Tripura	15	0	0.0	0.00	0.0	0.00
Manipur	1784	1761	105.0	5.96	0.0	0.00
Assam	680	650	350.0	53.85	0.0	0.00
Nagaland	1574	1452	75.0	5.17	0.0	0.00
Arunachal Pradesh	50328	50064	515.0	1.03	2600.0	5.19
Mizoram	2196	2131	60.0	2.82	0.0	0.00
Sub Total (NER)	58971	58356	1427.0	2.45	2600.0	4.46
ALL INDIA	148701	145320	40613.6	27.95	10829.5	7.45

\* Excluding Pumped Storage Hydro Plants

\*\* Capacity above 25 MW

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ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 3114 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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State-wise list of Hydro Renovation, Modernisation, Uprating & Life Extension (RMU&LE) schemes completed during last three years (i.e. 2016-17, 2017-18 & 2018-19) and 2019-20 (upto June, 2019)

Sl. No	Project, Agency, Inst. Cap. (No. x MW)	Capacity Covered under RMU&LE (No.x.MW)	Completed Cost (Rs. Crores)	Benefits (MW)	Category	Year of Completion
CENTRAL SECTOR						
1	Salal, NHPC (6x115)	5x115	51.08	-	R&M	2019-20
2	Ganguwal (1x29.25+2x24.2) & Kotla (1x29.25+2x24.2) BBMB	1x24.2 (U-2) 1x24.2 (U-3)	9.58	48.4 (LE)	RM&LE	2017-18
3	Dehar Power House (Unit-3), BBMB (6x165)	1x165	16.00	-	R&M	2017-18
STATE SECTOR						
4	Sumbal Sindh, J&KSPDC	2x11.3	24.59	-	R&M	2016-17
5	Khatima, UJVNL	3x13.8	118.83	41.40 (LE)	RM&LE	2016-17
6	Sharavathy Generating Station (PhB), KPCL	10x103.5	29.27	-	R&M	2016-17
7	Jaldhaka St.I, WBSEDCL	3x9	79.97	27 (LE)	RM&LE	2016-17
Total		1914.4	329.32	116.8(LE)		

Abbreviations: R&M – Renovation & Modernisation; U – Uprating; LE – Life Extension

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## ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 3114 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Status of 91 Hydro Electric Projects allotted to Private Sector Developers and not taken off for construction

## A. Status of 19 Hydro Electric Projects for which DPR concurred by CEA

Sl. No	Name of Scheme	Developer	Installed Capacity (MW)	CEA Concurrence	Remarks / Reasons
Uttarakhand					
1.	Alaknanda	GMR (Badrinath) HPG Ltd.	300	08.08.08	EC accorded on 12.3.2008, FC-I accorded on 08.11.2011. FC-II accorded on 09.11.2012. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
Himachal Pradesh					
2.	Miyar	MHPCL	120	07.02.13	EC accorded on 30.07.12. FC-I accorded on 27.07.12. FC-II not obtained.
3	Chhatru	DSC	126	15.01.15	EC recommended by EAC on 24.02.15. FC-I & FC-II not obtained.
4	Kutehr	JSWEPL	240	31.08.10	EC accorded on 05.07.2011, FC-I accorded on 22.06.2011 and FC-II accorded on 19.02.2013. Construction of the project could not be started due to non-completion of activities as under: i) Lease of Forest land ii) Felling of trees.
Nagaland					
5	Dikhu	NMPPL	186	31.03.14	EC not obtained by developer. FC not applicable as forest land is not involved.
Meghalaya					
6	Kynshi - I	AKPPL	270	31.03.15	EC & FC not obtained by developer.
Arunachal Pradesh					
7	Dibbin	KSKDHPL	120	04.12.09	EC accorded on 23.7.12. FC-I accorded on 7.2.12. FC-II not obtained.
8	Kalai-II	Kalai PPL	1200	27.03.15	EC accorded 20.5.15. FC-I and FC-II not obtained.
9	Heo	HPPL	240	28.07.15	EC accorded on 10.11.15. FC-I accorded on 27.10.15. FC-II not obtained.
10	Tato-I	SHPPL	186	28.10.15	EC accorded on 10.11.15. FC-I accorded on 27.10.15. FC-II not obtained.
1.	TalongLonda	GMR LHPL	225	16.08.13	EC accorded on 07.08.15. FC-I & FC-II not obtained.
2.	Etalin	EHEPCL	3097	12.07.13	EC recommended by EAC on 31.01.17. FC-I & FC-II not obtained.
3.	Lower Siang	JAPL	2700	16.02.10	EC & FC not obtained by developer.
4.	Hirong	JAPL	500	10.04.13	EC & FC not obtained by developer. However, as per MoEF&CC, matter of FC is closed vide letter dated 02.12.2015.

5.	Naying	NDSCPL	1000	11.09.13	EC & FC not obtained by developer. EC is linked with Siang BSR.
6.	Attunli	AHEPCL	680	02.07.18	Both EC and FC are not obtained.
7.	NyamjangChhu	NJCHPL	780	24.03.11	EC accorded on 19.04.12. FC-I accorded on 9.4.2012. NGT vide judgement dated 7.4.2016, has suspended EC till the time the studies are carried out.
8.	Demwe Lower	ADPL	1750	20.11.09	EC accorded on 12.02.10. FC-II accorded on 03.05.2013. As per NGT order dated 24.10.17, NBWL issue to reconsider by MoEF&CC.
9.	Nafra	SNEL	120	11.02.11	EC accorded on 19.08.13. FC-I accorded on 12.7.11 & FC-II accorded on 19.11.2012. Financial closure not achieved by the developer.
Total			13840		

B. Status of DPRs of 22 Hydro-Electric Schemes – DPR submitted but returned by CEA

Sl. No.	Scheme	State	Installed Capacity (MW)	Month of Return	Remarks / Reasons
10.	Mori Hanol	Uttarakhand	63	01/2010	DPR has been returned due to non-availability of updated hydrology. Also geological investigations are inadequate.
11.	BogudiyarSirkariBhyol	Uttarakhand	146	09/2010	DPR has been returned due to inadequate geological investigations.
12.	Bara Banghal	Himachal Pradesh	200	06/2011	DPR returned due to inadequate geological investigations, environmental & wild life issues.
13.	ReoliDugli	Himachal Pradesh	430	05/2019	Developer vide letter dated 29.08.2018 informed that the company has decided not to go ahead with the implementation of the project. In view of this, CEA returned the DPR.
14.	Seli	Himachal Pradesh	400	05/2019	Govt. of Himachal Pradesh vide letter dt. 23.09.17 have cancelled the allotment of Seli HEP in favour of SHPCL. In view of this, CEA returned the DPR.
15.	Dugar	Himachal Pradesh	449	05/2019	
16.	SachKhas	Himachal Pradesh	267	05/2019	Developer vide letter dated 29.08.2018 informed that the company has decided not to go ahead with implementation of the project. In view of this, CEA returned the DPR.
17.	Teesta St.-II	Sikkim	480	05/2007	DPR has been returned due to inadequate geological investigations.
18.	Lethang	Sikkim	96	04/2010	DPR was not accepted for examination due to lacks of barrage v/s dam design, review of I.C., spillway capacity etc.
19.	Yamne St-II	Arunachal Pradesh	84	05/2011	DPR has been returned due to inadequate geological investigations.
20.	Hutong -II	Arunachal Pradesh	1200	05/2012	The DPR was returned as the scheme is now developed as storage scheme.
21.	Kalai-I	Arunachal Pradesh	1352	05/2012	STC decided that MFIPL should carry out the detailed investigation for the revised DPR.
22.	Pemashelphu	Arunachal Pradesh	90	02/2013	Due to non-replying of the comments and likely change in location of Dam and benefits from the project, DPR of project was returned.



23.	Sissiri	Arunachal Pradesh	100	02/2013	Project was under consideration of STC due to conversion of storage Scheme to ROR Scheme. STC Cleared the Scheme as ROR scheme vide letter dated-14.12.2012. presentation meeting held on 21.02.2013. DPR could not be accepted to detailed examination as representation of State Govt. pointed out that irrigation and drinking water component should be internal part of two project and cost of same should be included in cost of project. DPR returned to developer for sort out the issue with State Govt.
24.	Gimliang	Arunachal Pradesh	80	06/2013	DPR has been returned due to inadequate geological investigations.
25.	Raigam	Arunachal Pradesh	141	06/2013	
26.	Kangtang Shiri	Arunachal Pradesh	80	07/2013	Returned on 29.07.2013 due to inadequate investigation and in proper layout etc.
27.	Demwe Upper HEP	Arunachal Pradesh	1080	03/2015	Developer informed that due to lack of confidence in constructability of Dam considering its deep foundation, they are not in a position to finalize the type of dam and are still in consultation with the contractors in this regard. Hence the project was returned by CEA.
28.	Nyukcharang chu	Arunachal Pradesh	96	04/2015	DPR has been returned due to inadequate geological investigations.
29.	Subansiri Middle (Kamla)	Arunachal Pradesh	1800	01/2018	The projects were returned vide CEA letter dated 29.01.2018 and all the partial clearances issued till date were rescinded as no progress has been made by the Developer towards resolving the issues
30.	Magochu	Arunachal Pradesh	96	01/2018	
31.	Tagurshit	Ar. Pr.	74	06/2019	Developer vide letter dated 28.08.2018 informed that the company has decided not to go ahead with implementation of the project. In view of this, CEA returned the
Total			8804		

C. Status of 24 Hydro Electric Projects under Survey & Investigation

Sl. No.	Name of Scheme	Basin/River	District	Agency for DPR	Type	Installed Capacity (MW)
Category I: Schemes likely to cost more than Rs. 1000 Crores - DPR under purview of CEA for Concurrence						
Conventional HEPs						
Arunachal Pradesh						
32.	Oju	Subansiri	Upper Subansiri	NavayugaEngg. Co. Ltd.	ROR	1878
33.	Pauk	Siang	West Siang	Velcan Energy Pvt Ltd	ROR	145
Sub Total (Ar.Pr)						2023
Total Conventional HEP (Cat I)						2023
Category II: Schemes likely to cost less than Rs. 1000 Crores - DPR under purview of State for approval						
Arunachal Pradesh						
34.	Chomi	Subansiri	KurungKumey	Adveta Power	ROR	80
35.	Chela	Subansiri	KurungKumey	Adveta Power	ROR	75
36.	Badao	Kameng	East Kameng	Coastal Projects Pvt. Ltd.	ROR	66
37.	Para	Kameng	East Kameng	Coastal Projects Pvt. Ltd.	ROR	45
38.	Pachuk-II	Kameng	Pachuk	Energy development Co. Ltd	ROR	61
39.	Tsa Chu - I Lower	Tawang	Nykcharongchu	Energy development Co. Ltd	ROR	77
40.	Tsa Chu - II	Tawang	Nykcharongchu	Energy development Co. Ltd	ROR	67
41.	Pachuk-II Lower	Kameng	Pakke Bung	Energy development Co. Ltd	ROR	51
42.	Marijingla	Kameng	Kameng	Energy development Co. Ltd	ROR	39
43.	Marijingla Lower	Kameng	Kameng	Energy development Co. Ltd	ROR	37
44.	Rego	Siang	West Siang	Greenko Energies Ltd.	ROR	97
45.	Rapum	Siang	West Siang	Greenko Energies Ltd.	ROR	66

46.	Pango	Siang	Upper Siang	Meenakshi Power Ltd.	ROR	96
47.	Sippi	Siang	Upper Siang	Meenakshi Power Ltd.	ROR	96
48.	Jidu (Yangsang)	Siang	Upper Siang	Meenakshi Power Ltd.	ROR	96
49.	Digin	Kameng	Sangti	Patel Hydro Power Pvt.Ltd.	ROR	46
50.	Panyor	Dikrong	Lower Subansiri	Rajratna Energy Holding Pvt. Ltd.	ROR	80
51.	Tidding-I	Lohit	Anjaw	Sai Krishnodaya Ind. (P) Ltd.	ROR	84
52.	Tidding-II	Lohit	Anjaw	Sai Krishnodaya Ind. (P) Ltd.	ROR	75
53.	Lower Yamne St-I	Siang	Upper Siang	Yamne Power Pvt. Ltd	ROR	75
54.	Lower Yamne St-II	Siang	Upper Siang	Yamne Power Pvt. Ltd	ROR	87
Himachal Pradesh						
55.	Tidong-II	Tidong	Kinnaur	Tidong Hydro Power Ltd.	ROR	60
Total (Category II)						1556
Total Conventional HEPs (Cat I + Cat II)						3579.0

D. Status of 26 Hydro Electric Projects where Survey & Investigation is held up

Sl. No.	Scheme	Basin/River	Installed Capacity (MW)	Agency	Date of Allotment/ MoA	Status / Reasons
Himachal Pradesh						
56.	SumteKothang	Spiti	130.00	Reliance Power Ltd.	31.12.2012	S&I held up due to opposition from locals and NGOs.
57.	Lara Sumta	Spiti	104.00	Reliance Power Ltd.	31.12.2012	S&I held up due to opposition from locals and NGOs.
Total (Himachal Pradesh)			234.00			
Uttarakhand						
58.	UrthingSobla	Dhauliganga	280.00	Reliance Power Ltd.		S&I heldup as the project area falls under Askot Musk deer Sanctuary.
59.	Mapang - Bogidiyar	Goriganga	200.00	GVK-L&T	07.05.2005	S&I held up due to Supreme Court order directing MoEF and State of Uttarakhand not to grant any Environmental Clearance or Forest Clearance for any hydroelectric project in the State of Uttarakhand until further orders.
Total (Uttarakhand)			480.00			
Arunachal Pradesh						
60.	Bhareli-II (Kameng-II)	Kameng	600.00	Mountain Falls Ltd.	23.11.2006	S&I held up due to project lie in Pakke Wild life Sanctuary. Dropped as per Kameng Basin study report.
61.	Papu	Papu	90.00	CESC Ltd.	16.05.2012	Issue of interference of levels with the Upstream project of M/s Vensar Energy Ltd, i.ePapu Valley HEP (45MW) requires to be resolved.
62.	Kameng Dam	Kameng	420.00	KSK Energy Ventures Ltd.	25.01.2007	MoEF did not issue ToR due to proximity to Pakke Tiger Reserve. All possible alternative site(s), the said proximity of tiger reserve persists due to which any project in this vicinity is not permitted and the project is dropped.
63.	Emra-I	Emra	275.00	Athena Energy Ventures Pvt. Ltd.	02.02.2008	No proper approach road to the project site. No progress is shown till date. Intent to Terminate by GoAP under process since 25/07/2018.
64.	Amulin	Mathun	420.00	Reliance Power Ltd.	03.02.2009	Commissioner (Power), GoAP stated in a meeting in the Ministry that approval has been accorded for termination of the project & letter for termination would be issued shortly.

65.	Emini	Mathun	500.00	Reliance Power Ltd.	03.02.2009	No progress after 1 years and 5 month since the approval of the Basin study hence, Intent to terminate by GoAP issued on 16/07/18
66.	Mihumdon	Dri	400.00	Reliance Power Ltd.	03.02.2009	Commissioner (Power), GoAP stated on a meeting in the Ministry that approval has been accorded for termination of the project & letter for termination would be issued shortly.
67.	Nalo	Subansiri	635.00	Indus Hydro Power	16.11.2010	First consultaion meeting held on 27.11.2013. Intent to terminate under proocess since 19.03/2018.
68.	Rho	Tawang	93.00	SEW Energy	2.3.2009	First consultation meeting held on 30.10.2013. The Developer were advised to speed up the implementation of the project and also pursue the Environmental clearance with MoEF& CC.
69.	Dardu	Pare	60.00	KVK Energy & Infrastructure Ltd.	26.12.2007	No activity/progress in the project. Local public are demanding to hand over the project to CPSU. Intention to terminate by GoAP is under process since 10/04/18.
70.	Naba	Singit	1000.00	Abir Infrastructure Pvt. Ltd.	21.06.2010	S&I held up due to unapproachable area/difficult & inhospitable terrain & local law & order problem. There is no activity in the project. 2nd show cause notice was issued by GoAP on 26/06/2015.
71.	Dengser	Subansiri	552.00	Coastal Infrastructre Pvt. Ltd.	26.04.2011	S&I held up due to unapproachable area/difficult & inhospitable terrain & local law & order problem. No activity in the project. 1st show cause notice was issued on 12/05/2015.
72.	Niare	Singit	800.00	Coastal Infrastructre Pvt. Ltd.	26.04.2011	S&I held up due to unapproachable area/difficult & inhospitable terrain & local law & order problem. There is no Activity in the project. 5th Show cause notice was issued by GoAP on 12/05/2015.
73.	Yamne-I	Yamne	111.00	S.S. Yamne Power Pvt. Ltd.	5.3.2009	First consultation meeting held on 30.07.2014. S&I held up. Local Problems in Siang Valley. Problems of law and order. Reply to final showcause notice not submitted. Hence under process for termination since 18/05/18.
74.	Emra-II	Emra	390.00	Athena Energy Ventures Pvt. Ltd.	02.02.2009	S&I held up. No road connectivity to project site. Local issues, communication problem. Facing local problem. developer was asked to complete the drilling work by march 2014. Till now no progress in Submission of DPR. Intent to Terminate under process since 25/07/2018.
75.	Anjaw	Lohit	270.00	Athena Energy Ventures Pvt. Ltd.	09.07.2007	First consultaion meeting held on 30.07.2014. S&I held up. No progress is shown by the Developer. The project will be considered for issuing of Intent to terminate.

76.	Dinchang	Digo	252.00	KSK Energy Ventures Ltd	11.9.2007	DPR preparation is in advanced stage of completion but not completed due to various reasons. GoAP has issued termination notice to which Developer pleaded not to withdraw the project.
77.	Ithun-I	Ithun	84.00	JVKIL Consortium	29.8.2008	Non-operationalization of Hunli-Desali road. Very slow progress, hence under process for Intent to Terminate by GoAP since 19/07/2018.
78.	Subansiri Upper	Singit	1800.00	KSK Energy Ventures Ltd	18.03.2010	S&I held up due to lack of clarity on funding of Flood Moderation cost. there is an issue regarding who will bear the cost of flood moderation. As per CERC's Regulations the cost of flood moderation components cannot be loaded on tariff.
79.	New Melling	Tawang	90.00	SEW Energy	23.02.2010	S&I held up due to no activity/progress in the project.
	Total (Ar. Pradesh)		8842.00			
	Meghalaya					
90.	Kynshi-II	Kynshi	450.00	GoMe&Jaiprakash Power Venture Ltd. (JV)	11.12.2007	S&I held up on account of non-finalisation of dam location/height due to deposit of Uranium. The installed capacity is revised to 325 MW.
	Total (Meghalaya)		450.00			
	Sikkim					
91.	Suntaleytar	Rangpo Chu	40.00	Hindustan Electric Power Ltd.	LOI date 23.02.12	S&I to be taken up after finalization of MOA.
	Total (Sikkim)		40.00			
	Total (All India)		10046.00			
	Grand Total (A+B+C+D)		36,269.00			

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3122  
TO BE ANSWERED ON 11.07.2019

POWER GENERATION AND PENDING POWERPROJECTS

3122. SHRI PARBATBHAI SAVABHAI PATEL:  
SHRI NARANBHAI KACHHADIYA:

Will the Minister of POWER  
be pleased to state:

- (a) the details of sources of power generation in every State and the quantum of power generated there from during the last three years, State/UT-wise;
- (b) the details of pending power projects, State/UT-wise;
- (c) the names of pending power projects especially in respect of Gujarat and the time by which these projects are likely to be completed; and
- (d) the action being taken by the Government in this direction?

A N S W E R

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

( SHRI R.K. SINGH)

(a): Source wise and state wise details of power generation from Conventional Sources (Thermal, Nuclear & Hydro (above 25 MW capacity)) & Renewable Energy Sources during the last three years and current year 2019-20 (up to May, 2019) are given at Annexure-I & II respectively.

(b) & (c): After enactment of Electricity Act 2003, generation of electricity has been de-licensed. As per information available in the CEA, details of thermal power projects (units) under construction in the country including Gujarat is given at Annexure- III. The state-wise list of under construction hydro electric projects (above 25 MW) is given at Annexure -IV.

(d): The action taken by the Government for early completion of these projects are:

(i): Central Electricity Authority (CEA) monitors the progress of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers. CEA holds review meetings periodically with the developers and other stakeholders to identify and resolve issues critical for commissioning of the projects.

(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.

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ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3122 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Details of State-wise & Fuel-wise Generation for the last three years & current year ( Up to May 2019)

State	NAME OF THE STATION	Fuel	Monitored Capacity as on 31.05.2019 MW	Generation (MU)			
				2019-20 *(upto-May 19)	2018-19	2017-18	2016-17
DELHI	BADARPUR TPS	COAL	0	0	1400.33	1556.97	1704.85
	I.P.CCPP	NATURAL GAS	270	91.57	599.63	578.8	695.52
	PRAGATI CCGT-III	NATURAL GAS	1500	622.93	3620.46	2957.53	2047.49
	PRAGATI CCPP	NATURAL GAS	330.4	223.65	1515.62	1955.4	1805.4
	RAJGHAT TPS	COAL	135	0	0	0	0
	RITHALA CCPP	NATURAL GAS	108	0	0	0	0
HARYANA	FARIDABAD CCPP	NATURAL GAS	431.59	0	597.09	837.38	1034.05
	INDIRA GANDHI STPP	COAL	1500	572.97	7387.28	7734.53	5473.77
	MAHATMA GANDHI TPS	COAL	1320	949.06	6898.35	7325.47	2895.7
	PANIPAT TPS	COAL	920	530.81	3378.89	2579.45	2205.93
	RAJIV GANDHI TPS	COAL	1200	177.38	3852.19	4681.01	3856.75
	YAMUNA NAGAR TPS	COAL	600	650.91	3321.63	3448.13	3424.24
HIMACHAL PRADESH	ALLAIN DUHANGAN HPS	HYDRO	192	109.87	582.23	683.01	679.12
	BAIRA SIUL HPS	HYDRO	180	0	366.67	641.73	669.33
	BASPA HPS	HYDRO	300	186.46	1275.58	1336.65	1342.75
	BASSI HPS	HYDRO	66	78.74	251.56	315.17	297.76
	BHAKRA H P S	HYDRO				5134.02	5168.27
	BHAKRA LEFT HPS	HYDRO	594	382.82	2248.69		
	BHAKRA RIGHT HPS	HYDRO	785	503	1989.5		
	BUDHIL HPS	HYDRO	70	58.19	288.08	317.63	261.25
	CHAMERA- I HPS	HYDRO	540	635.63	2484.56	2344.08	2224.39
	CHAMERA- II HPS	HYDRO	300	383.65	1508.02	1487.11	1443.93
	CHAMERA-III HPS	HYDRO	231	258.48	1043.42	1068.05	917.09
	CHANJU-I HPS	HYDRO	36	43	137.44	79.42	11.29
	DEHAR H P S	HYDRO	990	804.69	3226.3	3086.24	3184.68
	GIRI BATA HPS	HYDRO	60	17.61	214.45	169.94	140.6
	KARCHAM WANGTOO HPS	HYDRO	1000	716.06	3968.69	4569.93	4372.29
	KASHANG INTEGRATED	HYDRO	195	31.52	118.24	197.13	56.09
	KOLDAM	HYDRO	800	507.09	3013.93	3313.62	3225.16
	LARJI HPS	HYDRO	126	147.34	593.86	612.36	611.66
	MALANA HPS	HYDRO	86	62.51	320.55	346.29	353.79
	MALANA-II HPS	HYDRO	100	62.07	349.39	368.89	366.54
	NATHPA JHAKRI HPS	HYDRO	1500	1316.24	6507.15	7207.73	7050.64
	PARBATI-III HPS	HYDRO	520	89.01	608.3	710.53	682.48
	PONG H P S	HYDRO	396	146.56	1512.56	1641.57	1369.93
	RAMPUR HPS	HYDRO	412.02	374.22	1828.76	2015	1960.42
	SAINJ HPS	HYDRO	100	0	408.81	134.99	0
	SANJAY HPS	HYDRO	120	105.36	589.42	493.39	187.4
	SHANAN HPS	HYDRO	110	142.1	472.39	508.52	472.88
JAMMU AND KASHMIR	BAGLIHAR HPS	HYDRO	450	429.75	2291.15	2506.71	2184.56
	BAGLIHAR II HPS	HYDRO	450	490.28	1857.91	1821.95	1758.98
	CHUTAK HPS	HYDRO	44	8.99	48.96	45.72	44.12
	DULHASTI HPS	HYDRO	390	412.89	2273.38	2343.86	2280.02
	KISHANGANGA HPS	HYDRO	330	221.63	529.25	1.68	0
	LOWER JHELUM HPS	HYDRO	105	110.69	589.33	480.99	483.15
	NIMMO BAZGO HPS	HYDRO	45	17.26	105.55	98.83	95.21
	PAMPURE GPS (Liq.)	HIGH SPEED DIESEL	175	0	0	0	0
	SALAL HPS	HYDRO	690	902.61	3412.55	3247.09	3423.09

	SEWA-II HPS	HYDRO	120	181.12	498.32	506.39	470.61
	UPPER SINDH-II HPS	HYDRO	105	42.7	305.97	327.24	362.91
	URI-I HPS	HYDRO	480	706.52	3048.29	2349.66	2803.1
	URI-II HPS	HYDRO	240	336.54	1580.92	1207.44	1471.94
PUNJAB	ANANDPUR SAHIB HPS	HYDRO				647.81	673.87
	ANANDPUR SAHIB-I HPS	HYDRO	67	56.15	405.86		
	ANANDPUR SAHIB-II HPS	HYDRO	67	54.96	21.92		
	GANGUWAL HPS	HYDRO	77.65	96.37	599.37	494.09	416.54
	GH TPS (LEH.MOH.)	COAL	920	86.47	2485.15	2944.5	2736.39
	GND TPS(BHATINDA)	COAL	0	0	0	301.33	698.58
	GOINDWAL SAHIB TPP	COAL	540	235.57	2445.49	1541	223.91
	KOTLA HPS	HYDRO	77.65	97.48	609.6	508.22	430.58
	MUKERIAN HPS	HYDRO				1270.76	1083.51
	MUKERIAN-I HPS	HYDRO	45	96.13	1175.44		
	MUKERIAN-II HPS	HYDRO	45	2.33	19.2		
	MUKERIAN-III HPS	HYDRO	58.5	3.24	24.66		
	MUKERIAN-IV HPS	HYDRO	58.5	2.36	24.83		
	RAJPURA TPP	COAL	1400	1447.03	9123.71	9110.04	9441.76
	RANJIT SAGAR HPS	HYDRO	600	453.16	1454.52	1803.42	1306.08
	ROPAR TPS	COAL	840	13.64	1669.99	2274.36	2776.36
	TALWANDI SABO TPP	COAL	1980	1923.59	10639.92	8556.82	7078.84
RAJASTHAN	ANTA CCPP	NATURAL GAS	419.33	179.26	550.65	450.94	695.18
	BARSINGSAR LIGNITE	LIGNITE	250	166.26	1357.1	1648.81	1463.25
	CHHABRA TPP	COAL	2320	2208.69	10379.13	7630.44	6826.93
	DAE (RAJASTHAN)	NUCLEAR	100	0	0	0	0
	DHOLPUR CCPP	NATURAL GAS	330	0	20.92	247.72	124.84
	GIRAL TPS	LIGNITE	250	0	0	0	0
	JALIPA KAPURDI TPP	LIGNITE	1080	1011.86	6700.1	6855.95	6622.49
	JAWAHAR SAGAR HPS	HYDRO	99	2.08	247	261.1	307.55
	KALISINDH TPS	COAL	1200	678.55	5550.4	6691.18	5944.12
	KAWAI TPS	COAL	1320	1417.39	7599.26	5067.15	8289.27
	KOTA TPS	COAL	1240	1318.74	7921.01	7213.05	7486.79
	MAHI BAJAJ HPS	HYDRO				180.17	209.66
	MAHI BAJAJ-I HPS	HYDRO	50	3.28	99.76		
	MAHI BAJAJ-II HPS	HYDRO	90	1.35	17.32		
	R P SAGAR HPS	HYDRO	172	0.02	334.32	378.26	448.78
	RAJASTHAN A.P.S.	NUCLEAR	1080	1326.29	8034.28	8605.8	7472.6
	RAMGARH CCPP	NATURAL GAS	273.8	140.79	998.09	1448.68	1425.72
	SURATGARH TPS	COAL	1500	798.68	7168.92	4964.36	4474.99
UTTAR PRADESH	ANPARA C TPS	COAL	1200	1439.44	8236.75	8397.1	8451.36
	ANPARA TPS	COAL	2630	3447.13	20140.46	16618.51	15219.41
	AURAIYA CCPP	NATURAL GAS	663.36	18.19	544.96	376.97	535.67
	BARKHERA TPS	COAL	90	32.24	148.7	190.36	391.92
	DADRI (NCTPP)	COAL	1820	1449.57	10533.54	9933.39	8765.46
	DADRI CCPP	NATURAL GAS	829.78	437.85	1661.51	1627.81	2236.96
	HARDUAGANJ TPS	COAL	605	572.08	3141.52	3850.52	3825.11
	KHAMBARKHERA TPS	COAL	90	31.67	141.2	181.51	375.3
	KHARA HPS	HYDRO	72	65.89	286.14	259.14	268.93
	KUNDARKI TPS	COAL	90	50.23	203.67	192.12	460.8
	LALITPUR TPS	COAL	1980	1475.04	5449.92	8565.92	3953.51
	MAQSOODPUR TPS	COAL	90	32.22	141.28	167.48	417.24
	MATATILA HPS	HYDRO	30.6	9.37	97.48	93.81	122.68
	MEJA STPP	COAL	660	279.67	69.61	8.22	
	NARORA A.P.S.	NUCLEAR	440	616.25	3161.89	3636.38	3378.89
	OBRA HPS	HYDRO	99	9	231.03	299.96	216.71
	OBRA TPS	COAL	1094	621.7	3648.03	4313.9	3842.06
	PANKI TPS	COAL	0	0	0	338.69	762.6
	PARICHHA TPS	COAL	1140	662.89	4978.88	6427.09	6139.11
	PRAYAGRAJ TPP	COAL	1980	1438.4	7759.32	5635.06	4468.48
	RIHAND HPS	HYDRO	300	25.22	561.71	833.78	567.24
	RIHAND STPS	COAL	3000	4130.88	22686.8	23530.54	21959.62
	ROSA TPP Ph-I	COAL	1200	1321.71	4340.9	7718.8	7913.9
	SINGRAULI STPS	COAL	2000	2594.42	14798.21	14781.83	15219.06
	TANDA TPS	COAL	440	405.34	2371.8	3277.98	3241.42
	UNCHAHAHAR TPS	COAL	1550	1573.89	7241	7092.48	6993.65
	UTRAULA TPS	COAL	90	32.76	196.09	192.93	415.02

UTTARAKHAND	CHIBRO (YAMUNA) HPS	HYDRO	240	174.94	809.53	783.57	714
	CHILLA HPS	HYDRO	144	129.78	632.41	811.66	769.35
	DHAKRANI HPS	HYDRO	33.75	31.37	147.48	129.68	120.19
	DHALIPUR HPS	HYDRO	51	44.12	219.99	186.71	180.4
	DHAULI GANGA HPS	HYDRO	280	237.22	1106.21	1153.16	956.13
	GAMA CCPP	NATURAL GAS	225	135.72	412.36	560.66	492.43
	KASHIPUR CCPP	NATURAL GAS	225	263.33	841.88	1062.33	476.58
	KHATIMA HPS	HYDRO	41.4	36.27	232.25	212.6	180.14
	KHODRI HPS	HYDRO	120	80.06	369.68	355.75	333.29
	KOTESHWAR HPS	HYDRO	400	223.52	1223.84	1220.33	1224.55
	KULHAL HPS	HYDRO	30	28.12	146.55	123.97	122.2
	MANERI BHALI - I HPS	HYDRO	90	91.25	430.4	394.77	349.22
	MANERI BHALI - II HPS	HYDRO	304	257.22	1302.34	1276.65	1251.71
	RAMGANGA HPS	HYDRO	198	5.23	188.14	250.64	180.94
	SHRINAGAR HPS	HYDRO	330	220.54	1375.31	1382.54	1280.75
	TANAKPUR HPS	HYDRO	94.2	85.36	452.89	459.74	430.29
	TEHRI ST-1 HPS	HYDRO	1000	471.9	3172.08	3080.94	3146.32
	VISHNU PRAYAG HPS	HYDRO	400	315.28	1932.02	2160.9	2042.05
CHHATTISGARH	AKALTARA TPS	COAL	1800	1958.01	7912.22	5806.98	6732.49
	AVANTHA BHANDAR	COAL	600	0	0	572.13	2819.44
	BALCO TPS	COAL	600	530.17	2768.07	2313.07	3193.38
	BANDAKHAR TPP	COAL	300	389.68	2137.6	2223.84	1405.4
	BARADARHA TPS	COAL	1200	1215.05	6729.62	6536.81	7188.39
	BHILAI TPS	COAL	500	554.08	3426.23	3877.77	3651.19
	BINJKOTE TPP	COAL	600	484.09	1464.92	673.97	0
	CHAKABURA TPP	COAL	30	43.56	241.55	268.75	242.94
	DSPM TPS	COAL	500	679.72	3828.15	4042.97	3982.4
	HASDEOBANGO HPS	HYDRO	120	40.85	243.08	178.07	153.76
	KASAIPALLI TPP	COAL	270	342.37	1900.36	1905.36	2012.43
	KATGHORA TPP	COAL	35	0	0	0	0
	KORBA STPS	COAL	2600	3394.85	20083.42	20477.94	20364.88
	KORBA-II	COAL	200	0	226.1	545.24	893.64
	KORBA-III	COAL	240	239.47	1317.27	1242.2	1396.99
	KORBA-WEST TPS	COAL	1340	1439.39	9472.41	9283.64	9235.86
	LARA TPP	COAL	800	71.15	262.91	0	
	MARWA TPS	COAL	1000	729.09	6415.52	5720	2554.67
	NAWAPARA TPP	COAL	600	594.6	3095.17	2741.13	714.27
	OP JINDAL TPS	COAL	1000	489.46	3349.21	4221.47	4482.79
	PATHADI TPP	COAL	600	658.7	4293.08	4139.42	4448.61
	RAIKHEDA TPP	COAL	1370	699.44	2830.89	1367.92	763.34
	RATIJA TPS	COAL	100	115.92	799.1	743.06	432.03
	SALORA TPP	COAL	135	0	0	0	0
	SIPAT STPS	COAL	2980	3968.45	23907.12	23009.82	23778.93
	SVPL TPP	COAL	63	48.81	12.44	27.13	303.06
	SWASTIK KORBA TPP	COAL	25	0	0	0	0
	TAMNAR TPP	COAL	2400	1426.79	7044.63	6684.29	4797.7
	UCHPINDA TPP	COAL	1440	439.58	1953.26	1438.78	137.59
GOA	GOA CCPP (Liq.)	NAPHTHA	48	0	0	0	0
GUJARAT	AKRIMOTA LIG TPS	LIGNITE	250	129.78	1188.45	1357.12	1392.9
	BARODA CCPP	NATURAL GAS	160	0	0	35.56	135.09
	BHAVNAGAR CFBC TPP	LIGNITE	500	0	588.95	480.15	55.47
	DGEN MEGA CCPP	NATURAL GAS	1200	273.42	0.7	0	1.02
	DHUVARAN CCPP	NATURAL GAS	594.72	69.65	699.97	595.78	306.76
	ESSAR CCPP	NATURAL GAS	515	0	0	0	0
	GANDHAR CCPP	NATURAL GAS	657.39	99.47	1573.91	3111.93	2358.82
	GANDHI NAGAR TPS	COAL	630	626.7	3703.99	3741.98	2172.33
	GIPCL. GT IMP	NATURAL GAS	0	31.88	202.85	196.18	203.42
	HAZIRA CCPP	NATURAL GAS	156.1	0	24.22	2.48	24.32
	HAZIRA CCPP EXT	NATURAL GAS	351	56.34	352.28	193.33	230.06
	KADANA HPS	HYDRO	240	11.7	237.39	308.92	339.01
	KAKRAPARA	NUCLEAR	440	345.48	999.93	0	0
	KAWAS CCPP	NATURAL GAS	656.2	451.89	2499.39	2405.9	1718.18
	KUTCH LIG. TPS	LIGNITE	290	193.09	1205.39	1297.78	1483.92
	MUNDRA TPS	COAL	4620	5573.33	23912.38	21907.95	30298.43
	MUNDRA UMTTP	COAL	4000	5122.7	26839.3	26514.87	27460.24
	PEGUTHAN CCPP	NATURAL GAS	655	0	293.98	434.57	280.62
	PIPAVAV CCPP	NATURAL GAS	702	26.34	493.76	168.06	229.99
	S SAROVAR CHPH HPS	HYDRO	250	49.61	594.84	562.86	876.34
	S SAROVAR RBPH HPS	HYDRO	1200	0	0	376.61	2332.87
	SABARMATI (C STATION)	COAL	60	0	0	0.01	0



	SABARMATI (D-F STATIONS)	COAL	362	491.26	2785.64	2638.77	2759.1
	SALAYA TPP	COAL	1200	303.42	0	2682.42	5213.21
	SIKKA REP. TPS	COAL	500	551.14	2725.93	2677.54	2148.22
	SUGEN CCPP	NATURAL GAS	1147.5	1268.55	6237.45	6522.62	4771.5
	SURAT LIG. TPS	LIGNITE	500	599.36	3521.75	3271.72	3178.22
	UKAI HPS	HYDRO	300	46.02	210.58	303.53	395.66
	UKAI TPS	COAL	1110	1386.71	6936.96	6768.96	5296.15
	UNOSUGEN CCPP	NATURAL GAS	382.5	173.35	0	0	0
	UTRAN CCPP	NATURAL GAS	374	54.78	418.22	257.59	157.14
	WANAKBORI TPS	COAL	1470	1488.54	8343.14	7704.68	3929.62
MADHYA PRADESH	AMARKANTAK EXT TPS	COAL	210	307.55	1636.16	1728.15	1481.04
	ANUPPUR TPP	COAL	1200	1338.47	6689.6	6225.05	3760.16
	BANSAGAR TONS-I HPS	HYDRO	315	194.15	578.35	545.37	1239.02
	BANSAGAR-II HPS	HYDRO	30	16.9	37.09	56.12	109.73
	BANSAGAR-III HPS	HYDRO	60	3.49	85.32	68.8	53.48
	BARGI HPS	HYDRO	90	21.23	356.19	159.05	445.47
	BINA TPS	COAL	500	489.91	2503.79	2465.28	812.85
	GADARWARA TPP	COAL	800	178.62	0		
	GANDHI SAGAR HPS	HYDRO	115	0.66	249.88	351.38	351
	INDIRA SAGAR HPS	HYDRO	1000	181.04	1308.79	881.76	3320.79
	MADHIKHERA HPS	HYDRO	60	0.02	88.99	22.52	147.21
	MAHAN TPP	COAL	1200	951.78	3220.09	2918.23	2629.2
	NIGRI TPP	COAL	1320	1347.34	7330.28	7688.93	7266.96
	NIWARI TPP	COAL	45	35.6	77.38	87.88	237.26
	OMKARESHWAR HPS	HYDRO	520	116.42	612.04	443.6	1427.7
	RAJGHAT HPS	HYDRO	45	0	80.02	58.21	62.26
	SANJAY GANDHI TPS	COAL	1340	1351.17	8680.63	7543.08	6843.25
	SASAN UMTTP	COAL	3960	5671.03	32877.27	31792.52	29414.72
	SATPURA TPS	COAL	1330	1068.14	7472.97	5020.85	3644.9
	SEIONI TPP	COAL	600	515.09	2500.55	1666.87	311.25
	SHREE SINGAJI TPP	COAL	2520	1800.63	7753.38	3954.09	2474.65
	VINDHYACHAL STPS	COAL	4760	6193.26	37539	37495.73	32206.94
MAHARASHTRA	AMARAVATI TPS	COAL	1350	599.34	4074.09	4771.38	1874.7
	BELA TPS	COAL	270	0	149.37	80.51	0
	BHANDARDHARA HPS ST-II	HYDRO	34	3.39	56.44	42.55	47.12
	BHIRA HPS	HYDRO	150	45.29	351.02	341.17	379.14
	BHIRA PSS HPS	HYDRO	150	81.59	558.77	551.13	572.49
	BHIRA TAIL RACE HPS	HYDRO	80	12.8	94.57	97.15	101.58
	BHIVPURI HPS	HYDRO	75	74.04	315.9	307.2	206.59
	BHUSAWAL TPS	COAL	1210	1251.5	6595.75	6623.87	6120.56
	BUTIBORI TPP	COAL	600	0	2212.73	3306.31	3742.52
	CHANDRAPUR(MAHARASHTRA) STPS	COAL	2920	3276.57	15850.79	14798.22	14941.77
	DAHANU TPS	COAL	500	618.14	3617.02	3534.27	3742.55
	DHARIWAL TPP	COAL	600	607.87	3228.9	2393.27	1541.71
	GEPL TPP Ph-I	COAL	120	0	0	0	0
	GHATGHAR PSS HPS	HYDRO	250	24.7	192.98	152.83	383.87
	GMR WARORA TPS	COAL	600	771.38	3895.25	3746.1	3703.42
	JSW RATNAGIRI TPP	COAL	1200	1428.05	8019.75	6731.26	6681.86
	KHAPARKHEDA TPS	COAL	1340	1464.05	7471.18	6179.19	7714.77
	KHOPOLI HPS	HYDRO	72	50.63	342.49	316.38	307.24
	KORADI TPS	COAL	2400	1818.8	8429.52	9387.08	5853.85
	KOYNA DPH HPS	HYDRO	36	44.17	196.18	135.15	156.02
	KOYNA-I HPS	HYDRO				517.92	640.51
	KOYNA-I&II HPS	HYDRO	600	357.59	1024.61		
	KOYNA-II HPS	HYDRO				533.3	649.7
	KOYNA-III HPS	HYDRO	320	244.91	480.65	498.91	614.14
	KOYNA-IV HPS	HYDRO	1000	754.68	1066.51	945.47	1245.48
	MANGAON CCPP	NATURAL GAS	388	0	0	0	215.44
	MAUDA TPS	COAL	2320	2211.45	11878.13	7971.14	4305.65
	MIHAN TPS	COAL	246	0	0	0	0
	NASIK (P) TPS	COAL	1350	0	0	1.69	0.72
	NASIK TPS	COAL	630	583.92	2316.16	2887.88	3328.71
	PARAS TPS	COAL	500	709.54	2628.25	3116.32	2988.82
	PARLI TPS	COAL	1170	156.17	2842.07	3067.31	1627.09
	PENCH HPS	HYDRO	160	10.85	131.61	159.53	360.14

	RATNAGIRI CCPP	NATURAL GAS	1967.08	729.13	4465.63	4501.03	
	RATNAGIRI CCPP I	NATURAL GAS					0
	RATNAGIRI CCPP II	NATURAL GAS					2438.41
	RATNAGIRI CCPP III	NATURAL GAS					2119.31
	SHIRPUR TPP	COAL	150	0	0	4.74	
	SOLAPUR	COAL	1320	76.69	1783.67	1397.56	0
	TARAPUR	NUCLEAR	1400	2013.52	10766.42	6876.25	10860.2
	TILLARI HPS	HYDRO	60	18.14	110.96	57.81	106.16
	TIRORA TPS	COAL	3300	4266.77	21665.55	17596.24	17642.56
	TROMBAY CCPP	NATURAL GAS	180	260.75	1410.82	1353.66	1413.14
	TROMBAY TPS	COAL	1250	853.7	5018.74	4940.5	4980.93
	URAN CCPP	NATURAL GAS	672	398.57	2574.69	3211.7	3294.56
	VAITARNA HPS	HYDRO	60	55.09	154.17	204.62	153.52
	WARDHA WARORA TPP	COAL	540	0	1052.44	1129.7	1394.9
ANDHRA PRADESH	DAMODARAM SANJEEVAIAH TPS	COAL	1600	1480.29	6957.21	4939.92	8804.65
	Dr. N.TATA RAO TPS	COAL	1760	2074.69	10885.93	10821.55	11652.38
	GAUTAMI CCPP	NATURAL GAS	464	0	0	0	0
	GMR Energy Ltd - Kakinada	NATURAL GAS	220	0	0	0	0
	GODAVARI CCPP	NATURAL GAS	208	82.21	1142.85	572.4	1008.75
	GREL CCPP (Rajahmundry)	NATURAL GAS	768	0	0	0	643.51
	JEGURUPADU CCPP PH I	NATURAL GAS	235.4	83.88	826.31	1065.12	924.13
	JEGURUPADU CCPP PH II	NATURAL GAS	220	0	0	0	75.08
	KONASEEMA CCPP	NATURAL GAS	445	0	0	0	0
	KONDAPALLI EXTN CCPP	NATURAL GAS	366	0	0	0	157.32
	KONDAPALLI CCPP	NATURAL GAS	350	175.79	1667.06	660.7	850.27
	KONDAPALLI ST-3 CCPP	NATURAL GAS	742	0	0	0	1266.11
	LVS POWER DG	DIESEL	36.8	0	0	0	0
	NAGARJUN SGR RBC HPS	HYDRO	90	0	101.55	59.73	4.15
	NAGARJUN SGR TPD	HYDRO	50	1.5	49.92	42.13	7.35
	PAINAMPURAM TPP	COAL	1320	1532.72	8369.17	9833.58	9059.4
	PEDDAPURAM CCPP	NATURAL GAS	220	0	0	0	0
	RAYALASEEMA TPS	COAL	1650	1575.98	6637.55	6924.7	6711.64
	SGPL TPP	COAL	1320	1706.57	9736.08	8970.59	1658.6
	SIMHADRI	COAL	2000	1897.08	12449.08	11773.71	14173.49
	SIMHAPURI TPS	COAL	600	0	99.46	25.02	1617.72
	SRISAILAM HPS	HYDRO	770	28.28	551.07	574.95	640.61
	THAMMINAPATNAM TPS	COAL	300	0	36.59	587.3	1373.63
	UPPER SILERU HPS	HYDRO	240	113.51	476.34	482.22	340.41
	VEMAGIRI CCPP	NATURAL GAS	370	0	0	0	305.33
	VIJESWARAM CCPP	NATURAL GAS	272	116.23	1114.49	1192.04	691.1
	VIZAG TPP	COAL	1040	604.73	949.1	3326.14	3282.53
KARNATAKA	ALMATTI DPH HPS	HYDRO	290	4.64	408.42	441.58	404.05
	BELLARY DG	DIESEL	25.2	0	0	0	0
	BELLARY TPS	COAL	1700	877.22	4059.06	4021.14	6402.37
	BHADRA HPS	HYDRO	26	1.68	55.21	15.69	27.06
	GERUSUPPA HPS	HYDRO	240	85.5	525.67	280.89	276.6
	GHAT PRABHA HPS	HYDRO	32	8.16	80.67	48.37	48.74
	HAMPI HPS	HYDRO	36	0.37	19.21	36.26	0.1
	JOG HPS	HYDRO	139.2	41.97	194.44	191.48	288.25
	KADRA HPS	HYDRO	150	39.82	375.85	192.91	176.42
	KAIGA	NUCLEAR	880	1277.06	7216.53	7533.41	6533.49
	KALINADI HPS	HYDRO	855	554.01	2777.85	1537.28	1344.82
	KALINADI SUPA HPS	HYDRO	100	107.68	596.16	290.98	239.2
	KODASALI HPS	HYDRO	120	51.09	345.56	170.94	154.16
	KUDGI STPP	COAL	2400	1088.53	7566.33	3945.19	25.49
	LIGANAMAKKI HPS	HYDRO	55	35.71	252.53	125.55	105.64
	MUNIRABAD HPS	HYDRO	28	0	89.42	51.38	31.49
	RAICHUR TPS	COAL	1720	2165.6	8917.98	10834.52	11495.67
	SHARAVATHI HPS	HYDRO	1035	912.69	4786.18	2722.35	2708.77
	SIVASAMUNDRUM HPS	HYDRO	42	20.13	284.19	176.81	145.14
	T B DAM HPS	HYDRO	36	1.73	152.54	97.71	81.16
	TORANGALLU TPS(SBU-I)	COAL	260	190.29	1319.47	1675.06	1714.95
	TORANGALLU TPS(SBU-II)	COAL	600	301.5	2484.62	2338.1	2700.39
	UDUPI TPP	COAL	1200	1050.6	5214.35	6181.32	7875.42
	VARAHI HPS	HYDRO	460	200.45	1243.79	762.44	740.75
	YELHANKA (DG)	DIESEL	127.92	0	0	0	0
	YERMARUS TPP	COAL	1600	0	790.93	997.45	246.54

KERALA	BRAMHAPURAM DG	DIESEL	63.96	0	0.28	0.46	5.53
	COCHIN CCPP (Liq.)	NAPTHA	174	0	0	42.65	0
	IDAMALAYAR HPS.	HYDRO	75	59.33	345.5	256.26	171.72
	IDUKKI HPS.	HYDRO	780	635.15	2920.43	1611.06	1380.06
	KAKKAD HPS.	HYDRO	50	39.12	221.66	159.88	131.68
	KOZHICODE DG	DIESEL	96	12.13	3.79	1.46	42.19
	KUTTIYADI HPS.	HYDRO	75	17.88	233.75	430.12	327.24
	KUTTIYADI ADDL. EXTN.	HYDRO	100	55.62	270.27	170.94	151.48
	KUTTIYADI EXTN. HPS.	HYDRO	50	14.13	189.36		
	LOWER PERIYAR HPS.	HYDRO	180	35.85	525.18	507.74	307.23
	NARIAMANGLAM HPS	HYDRO	45	35.71	377.85	310.6	197.3
	PALLIVASAL HPS.	HYDRO	37.5	23.61	185.25	188.39	166.05
	PANNIAR HPS.	HYDRO	30	21.25	114.59	129.47	62.33
	PORINGALKUTTU HPS.	HYDRO	32	3.93	94.6	116.74	91.1
	R. GANDHI CCPP (Liq.)	NAPTHA	359.58	0	0.81	4.19	15.4
	SABARIGIRI HPS.	HYDRO	300	281.45	1516.4	968.46	798.79
	SENGULAM HPS.	HYDRO	48	24.96	122.98	144.91	115.66
	SHOLAYAR HPS.	HYDRO	54	53.36	202.39	204.69	166.85
PUDUCHERRY	KARAIKAL CCPP	NATURAL GAS	32.5	42.61	229.88	226.45	246.84
TAMIL NADU	ALIYAR HPS.	HYDRO	60	5.33	48.57	90.08	61.73
	BASIN BRIDGE GT (Liq.)	NAPTHA	120	0	0.05	6.12	10.98
	BHAWANI BARRAGE-II HPS	HYDRO	30	2.63	77.16	37.62	19.83
	BHAWANI BARRAGE-III	HYDRO	30	0	34.06	0	17.47
	BHAWANI KATTAL	HYDRO	30	1.33	70.21	16.96	20.59
	ENNORE TPS	COAL	0	0	0	0	191.99
	ITPCL TPP	COAL	1200	1105.07	5544.59	5724.29	4975.7
	KADAMPARI HPS.	HYDRO	400	0.79	434.75	384.36	289.39
	KARUPPUR CCPP	NATURAL GAS	119.8	129.26	647.48	480.13	478.97
	KODAYAR HPS.	HYDRO				123.98	169.43
	KODAYAR-I HPS.	HYDRO	60	11.45	144.11		
	KODAYAR-II HPS.	HYDRO	40	0.01	49.97		
	KOVIKALPAL CCPP	NATURAL GAS	107.88	38.92	315.36	302.47	348
	KUDANKULAM	NUCLEAR	2000	1101.14	6142.61	8718.54	6466.02
	KUNDAH HPS.	HYDRO				806.23	815.61
	KUNDAH-I HPS.	HYDRO	60	43.32	270.77		
	KUNDAH-II HPS.	HYDRO	175	101.88	678.67		
	KUNDAH-III HPS.	HYDRO	180	56.69	397.66		
	KUNDAH-IV HPS.	HYDRO	100	5.74	172.05		
	KUNDAH-V HPS.	HYDRO	40	6.09	89.84		
	KUTTALAM CCPP	NATURAL GAS	100	29.09	410.27	349.49	380.17
	LOWER METTUR HPS.	HYDRO				131.95	92.27
	LOWER METTUR-I	HYDRO	30	4.06	69.66		
	LOWER METTUR-II	HYDRO	30	2.17	31.68		
	LOWER METTUR-III	HYDRO	30	3.45	65.27		
	LOWER METTUR-IV	HYDRO	30	2.15	53.7		
	MADRAS A.P.S.	NUCLEAR	440	262.21	1490.93	2975.74	3204.67
	METTUR DAM HPS.	HYDRO	50	10.87	147.96	52.24	44.75
	METTUR TPS	COAL	840	1080.43	5807.22	7558.6	9177.43
	METTUR TPS - II	COAL	600	726.26	3153.1		
	METTUR TUNNEL HPS.	HYDRO	200	5.91	440.59	163.32	80.73
	MOYAR HPS	HYDRO	36	13.93	161.99	94.4	61.52
	MUTHIARA TPP	COAL	1200	346.04	3221.74	3906.24	3749.1
	NEYVELI ( EXT) TPS	LIGNITE	420	565.52	2949.65	3247.15	3328.33
	NEYVELI TPS- I	LIGNITE	500	500.41	3105.9	3379.73	3696.52
	NEYVELI TPS(Z)	LIGNITE	250	260.66	1290.36	1025.27	1078.69
	NEYVELI TPS-II	LIGNITE	1470	1828.33	10744.54	10262.56	11052.08
	NEYVELI TPS-II EXP	LIGNITE	500	324.75	1931.31	2009.9	1373.25
	NORTH CHENNAI TPS	COAL	1830	2065.02	10711.12	10062.78	10092.3
	P.NALLUR CCPP	NATURAL GAS	330.5	0	0	0	189.35
	PAPANASAM HPS.	HYDRO	32	1.55	120.91	115.28	66.54
	PARSON S VALLEY HPS.	HYDRO	30	0	45.94	27.11	23.95
	PERIYAR HPS.	HYDRO	161	0	703	287.1	93.91
	PYKARA HPS.	HYDRO	59.2	0.04	22.05	0.98	12.74
	PYKARA ULTMATE HPS.	HYDRO	150	40.21	507.96	274.11	192.55
	SAMALPATTI DG	DIESEL	105.7	0	0	0	0
	SAMAYANALLUR DG	DIESEL	106	0	0	0	12.01
	SARKARPATHY HPS.	HYDRO	30	26.6	129.65	85.46	63.29
	SHOLAYAR HPS (TN)	HYDRO	70	0	220.86	157.73	228.11
	SURULIYAR HPS.	HYDRO	35	7.92	92.55	70.69	42.71

	TUTICORIN (JV) TPP	COAL	1000	502.64	5486.62	5412.83	6252.04
	TUTICORIN (P) TPP	COAL	300	0	0	0	23.62
	TUTICORIN TPS	COAL	1050	1280.64	6306.31	5247.18	5547.59
	VALANTARVY CCPP	NATURAL GAS	52.8	51.54	352.86	371.45	378.18
	VALLUR TPP	COAL	1500	1202.42	7706.87	7167.72	9210.86
	VALUTHUR CCPP	NATURAL GAS	186.2	227.74	1178.03	1258.51	966.71
TELANGANA	KAKATIYA TPS	COAL	1100	1491.33	7727.37	7392.3	6578.52
	KOTHAGUDEM TPS	COAL	420	424.75	3611.15	3871.07	3964.11
	KOTHAGUDEM TPS (NEW)	COAL	1800	2438.21	9210.48	7131.2	6586.16
	LOWER JURALA HPS	HYDRO	240	0	153.31	205.9	176.34
	LOWER SILERU HPS	HYDRO	460	174.06	1094.06	1109.77	831.9
	NAGARJUN SGR HPS	HYDRO	815.6	17.7	338.82	184.49	186.15
	NAGARJUN SGR LBC HPS	HYDRO	60	0	53.3	12.8	0
	POCHAMPAD HPS	HYDRO	36	0.4	31.7	35.69	75.29
	PRIYADARSHNI JURALA HPS	HYDRO	234	0	165	217.4	211.99
	PULICHINTALA HPS	HYDRO	120	0	17.3	6.6	13
	RAMAGUNDEM - B TPS	COAL	62.5	83.42	423.03	474.84	453.7
	RAMAGUNDEM STPS	COAL	2600	3151.14	18547.91	18867.65	19597.52
	SINGARENI TPP	COAL	1200	1618.23	8698.48	9575.16	4099.33
	SRISAILAM LB HPS	HYDRO	900	20.73	985.18	829.1	617.22
ANDAMAN NICOBAR	AND. NICOBAR DG	DIESEL	40.05	19.89	120.73	258.79	215.56
BIHAR	BARAUNI TPS	COAL	710	8.89	44.85	39.48	131.42
	BARH II	COAL	1320	1753.33	9845.23	9272.35	7642.01
	KAHALGAON TPS	COAL	2340	2502.74	16485.91	16316.65	15947.93
	MUZAFFARPUR TPS	COAL	610	670.94	3039.78	1750.61	793.49
	NABI NAGAR TPP	COAL	750	764.56	2754.75	1060.94	0
DVC	BOKARO 'B' TPS	COAL	210	52.99	688.44	573.94	1456.68
	BOKARO TPS 'A' EXP	COAL	500	527.6	2920.75	2924.25	208
	CHANDRAPURA(DVC) TPS	COAL	630	689.08	3560.59	4075.82	5642.7
	DURGAPUR STEEL TPS	COAL	1000	1230.18	6293.54	6503.85	6655.77
	DURGAPUR TPS	COAL	210	34.18	981.28	947.1	592.72
	KODARMA TPP	COAL	1000	1275.31	6278.75	5911.3	3801.77
	MAITHON HPS.	HYDRO	63.2	1.28	101.36	114.41	122.03
	MEJIA TPS	COAL	2340	2606.7	12744.35	12478.48	12936.78
	PANCHET HPS.	HYDRO	80	4.8	79.79	141.94	133.51
	RAGHUNATHPUR TPP	COAL	1200	827.95	3208.4	2279.47	2016.51
JHARKHAND	JOJOBERA TPS	COAL	240	282.86	1519.04	1618.38	2274.02
	MAHADEV PRASAD STPP	COAL	540	469.85	2876.22	2909.92	3257.47
	MAITHON RB TPP	COAL	1050	1221.5	7267.81	7345.34	7356.63
	PATRATU TPS	COAL	0	0	0	0	385.88
	SUBERNREKHA HPS.	HYDRO				190.38	30.13
	SUBERNREKHA-I HPS.	HYDRO	65	0.35	51.47		
	SUBERNREKHA-II HPS.	HYDRO	65	0.31	49.72		
	TENUGHAT TPS	COAL	420	415.97	1689.05	1933.31	1423.3
ORISSA	BALIMELA HPS.	HYDRO	510	303.88	1732.21	1477.19	1001.38
	CHIPLIMA HPS	HYDRO	72	34.29	168.31		
	DERANG TPP	COAL	1200	753.22	4213.6	3657.42	6515.3
	HIRAKUD HPS	HYDRO	275.5	61.76	380.27	863.05	716.97
	IB VALLEY TPS	COAL	420	546.88	3085.46	2840.33	3235.67
	ICCL IMP	COAL	0	30.21	186.59	296.5	320.25
	KAMALANGA TPS	COAL	1050	1228.71	6690.02	5583.99	5932.79
	MACHKUND HPS	HYDRO	114.75	113.54	593.68	467.7	700.31
	NALCO IMP	COAL	0	15.56	194.02	279.43	315.43
	RENGALI HPS.	HYDRO	250	55.54	837.89	762.61	553.56
	STERLITE TPP	COAL	1200	74.4	828.09	1074.47	7801.53
	TALCHER (OLD) TPS	COAL	460	663.49	3606.84	3780.71	3759.53
	TALCHER STPS	COAL	3000	3812.57	21242.3	22976.99	22847.48
	UPPER INDRAVATI HPS.	HYDRO	600	403.5	2141.84	1745.57	1521.64
	UPPER KOLAB HPS.	HYDRO	320	139.11	923.25	706.87	619.34
	UTKAL TPP (IND	COAL	350	0	0	0	0
SIKKIM	CHUZACHEN HPS	HYDRO	110	69.44	417.4	444.79	494.75
	DIKCHU HPS	HYDRO	96	81.31	462.24	370.1	
	JORETHANG LOOP	HYDRO	96	37.69	409.75	406.01	405.63
	RANGIT HPS	HYDRO	60	52.03	349.09	345.91	347.14
	TASHIDING HPS	HYDRO	97	40.62	423.73	73.07	0
	TEESTA V HPS	HYDRO	510	580.35	2701.46	2818.78	2773.46
	TEESTA-III HPS	HYDRO	1200	1116.67	4258.4	4429.33	309.42

WEST BENGAL	BAKRESWAR TPS	COAL	1050	1439.12	7182.26	7486.77	7050.54
	BANDEL TPS	COAL	330	204.99	1315.39	1926.03	1885.02
	BUDGE BUDGE TPS	COAL	750	1049.73	6011.69	6033.39	5410.75
	D.P.L. TPS	COAL	660	544.06	2442.23	2524.46	2143.41
	FARAKKA STPS	COAL	2100	2444.88	14846.44	13356.91	13743.98
	HALDIA GT (Liq.)	HIGH SPEED DIESEL	40	0	0	0	0
	HALDIA TPP	COAL	600	753.52	4614.74	4525.89	4015.49
	HIRANMAYE TPP	COAL	300	0	80.71	27.48	
	JALDHAKA HPS ST-I	HYDRO	36	34.96	197.04	145.18	205.46
	KASBA GT (Liq.)	HIGH SPEED DIESEL	40	0	0	0	0
	KOLAGHAT TPS	COAL	1260	772.6	4422.88	4749.84	6038
	PURULIA PSS HPS.	HYDRO	900	161.24	1103.97	1014.37	1106.97
	RAMMAM HPS.	HYDRO	50	23.36	236.93	122.47	248.42
	SAGARDIGHI TPS	COAL	1600	1236.81	6051.94	6341.75	4877.43
	SANTALDIH TPS	COAL	500	674.12	3552.62	2941.59	3667.33
	SOUTHERN REPL. TPS	COAL	135	101.32	283.78	303.76	410.68
	TEESTA LOW DAM-III HPS	HYDRO	132	93.79	572.06	386.87	553.87
	TEESTA LOW DAM-IV HPS	HYDRO	160	114.93	708.45	495.15	602.53
	TITAGARH TPS	COAL	240	0	0	0	232.81
ARUNACHAL PRADESH	PARE	HYDRO	110	62.9	347.16	0	0
	RANGANADI HPS.	HYDRO	405	172.88	1051.86	1416.74	1249.01
ASSAM	BONGAIGAON TPP	COAL	750	708.16	2824.21	1732.17	1680.27
	KARBI LANGPI HPS.	HYDRO	100	40.34	372.72	484.98	396.59
	KATHALGURI CCPP	NATURAL GAS	291	285.69	1639.49	1598.25	1572.63
	KHONDONG HPS.	HYDRO	50	35.46	203.82	260.77	197.1
	KOPILI HPS.	HYDRO	200	148.95	1117.82	1172.83	1088.27
	LAKWA GT	NATURAL GAS	97.2	56.15	464.66	657.03	888.73
	LAKWA REPLACEMENT POWER PROJ.	NATURAL GAS	69.76	91.18	287.86		
	NAMRUP CCPP	NATURAL GAS	161.25	41.86	314.4	326.86	354.88
MANIPUR	LEIMAKHONG DG	DIESEL	36	0	0	0	0
	LOKTAK HPS.	HYDRO	105	70.89	602.61	837.74	741.07
MEGHALAYA	KYRDEMKULAI HPS.	HYDRO	60	15.16	134.84	132.18	65.29
	MYNTDU(LESHKA) St-1 HPS	HYDRO	126	54.4	362.95	502.47	391.65
	NEW UMTRU HPS	HYDRO	40	14.68	180.03	159.52	0
	UMIAM HPS ST-I	HYDRO	36	10.61	85.11	128.65	96.65
	UMIAM HPS ST-IV	HYDRO	60	16.34	166.6	217.44	166.01
MIZORAM	TUIRIAL HPS	HYDRO	60	7.89	168.44	78.37	
NAGALAND	DOYANG HPS.	HYDRO	75	5.54	231.47	274.39	258.94
TRIPURA	AGARTALA GT	NATURAL GAS	135	116.01	650.63	688.27	904.58
	BARAMURA GT	NATURAL GAS	58.5	28.99	173.54	177.88	188.25
	MONARCHAK CCPP	NATURAL GAS	101	110.08	681.27	671.53	172.05
	ROKHIA GT	NATURAL GAS	111	74.31	414.03	408.43	435.94
	TRIPURA CCPP	NATURAL GAS	726.6	872.93	4711.38	4053.16	4173.07
Bhutan (IMP)	Bhutan (IMP)	HYDRO		592.7	4406.62	4778.33	5617.34
			278392.07	226010.27	1249336.7	1206306.25	1160140.94

Note: \* Tentative

1. Gross Generation from conventional sources (Thermal, Hydro and Nuclear) stations of 25 MW and above only.
2. Figures given above indicate gross generation of all power stations(Central, State& Private Sector) located geographically in the respective State/UT.

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ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3122 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Installed Capacity and Generation Performance from Renewable Sources.

Sl. No.	Region / State	Installed Capacity as on 31-May, 2019	Generation during April-May, 2019
		(MW)	(MU)
1	Chandigarh	35	2.66
2	Delhi	184	53.63
3	Haryana	427	112.74
4	Himachal Pradesh	894	393.82
5	Jammu & Kashmir	195	84.77
6	Punjab	1282	514.88
7	Rajasthan	7994	2079.30
8	Uttar Pradesh	3028	1078.60
9	Uttarakhand	597	214.90
	Northern Region	14,636	4535.30
10	Chhattisgarh	535	128.62
11	Gujarat	8981	2904.77
12	Madhya Pradesh	4716	1600.61
13	Maharashtra	9321	2362.25
14	Daman & Diu	15.4	4.24
15	D.N.Haveli	5.5	1.36
16	Goa	4.8	-
	Western Region	23,580	7001.85
17	Andhra Pradesh	7947	2188.86
18	Telangana	3994	1271.34
19	Karnataka	13917	3242.66
20	Kerala	415	97.49
21	Tamil Nadu	13103	2746.29
22	Pondicherry	3.1	0.54
23	Lakshadweep	0.8	0.14
	Southern Region	39,380	9547.32
24	Bihar	329	52.52
25	DVC	-	0.01
26	Jharkhand	41	3.43
27	Odisha	512	157.05
28	West Bengal	488	257.34
29	Sikkim	52	4.64
30	Andaman- Nicobar	17	3.16
	Eastern Region	1,438	478.15
31	Arunachal Pradesh	136	0.38
32	Assam	61	4.92
33	Manipur	9	0.35
34	Meghalaya	33	7.89
35	Mizoram	37	7.59
36	Nagaland	32	3.40
37	Tripura	25	5.10
	North-Eastern	333	29.63
38	Others	4.3	357.13
	All India	79,372	21949.38

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ANNEXURE REFERRED TO IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO. 3122 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Details of Under Construction Thermal Power Projects in the Country

Sl. No.	State	Project Name	Unit No	Cap. (MW)	Anticipated Commissioning Schedule
		<i>CENTRAL SECTOR</i>			
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
		<b>TOTAL CENTRAL SECTOR</b>		<b>20420</b>	
		<i>STATE SECTOR</i>			
1	A.P	Dr.Narla Tata Rao TPS St-V	U-1	800	Feb-20
2	A.P	Sri DamodaranSanjeevaiah 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	Bhadradi 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				
		<i>PRIVATE SECTOR</i>						
1	AP	Bhavanapadu TPP Ph-	U-1	660	Uncertain			
			U-2	660	Uncertain			
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	Uncertain			
			U-2	660	Uncertain			
			U-3	660	Uncertain			
			U-4	660	Uncertain			
4	Chhattisgarh	Akaltara TPP (Naiyara)	U-4	600	Apr-22			
			U-5	600	Uncertain			
			U-6	600	Uncertain			
5	Chhattisgarh	Binjkote TPP/	U-3	300	Uncertain			
			U-4	300	Uncertain			
6	Chhattisgarh	LancoAmarkantak TPP-II	U-3	660	Uncertain			
			U-4	660	Uncertain			
7	Chhattisgarh	Singhitarai TPP	U-1	600	Uncertain			
			U-2	600	Uncertain			
8	Chhattisgarh	Salora TPP	U-2	135	Uncertain			
9	Chhattisgarh	Deveri (Visa) TPP	U-1	600	Uncertain			
10	Jharkhand	Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL	U-1	270	Uncertain			
			U-2	270	Uncertain			
11	Jharkhand	Matrishri Usha TPP Ph-II	U-3	270	Uncertain			
			U-4	270	Uncertain			
12	Jharkhand	Tori TPP Ph-I	U-1	600	Uncertain			
			U-2	600	Uncertain			
13	Jharkhand	Tori TPP Ph-II	U-3	600	Uncertain			
14	Maharashtra	Amravati TPP Ph-II	U-1	270	Uncertain			
			U-2	270	Uncertain			
			U-3	270	Uncertain			
			U-4	270	Uncertain			
			U-5	270	Uncertain			
15	Maharashtra	LancoVidarbha TPP	U-1	660	Uncertain			
			U-2	660	Uncertain			
16	Maharashtra	Nasik TPP Ph-II	U-1	270	Uncertain			
			U-2	270	Uncertain			
			U-3	270	Uncertain			
			U-4	270	Uncertain			
			U-5	270	Uncertain			
17	Maharashtra	BijoraGhanmukh TPP	U-1	300	Uncertain			
			U-2	300	Uncertain			
18	Maharashtra	Shirpur TPP	U-2	150	Uncertain			
19	MP	Gorgi TPP	U-1	660	Uncertain			
21	Odisha	IndBarath TPP (Odisha)	U-2	350	Uncertain			
			22	Odisha	KVK Nilanchal TPP	U-1	350	Uncertain
						U-2	350	Uncertain
23	Odisha	LancoBabandh TPP	U-3	350	Uncertain			
			U-1	660	Uncertain			
24	Odisha	Malibrahmani TPP	U-2	660	Uncertain			
			U-1	525	Uncertain			
25	TN	Tuticorin TPP (Ind- Barath)	U-2	525	Uncertain			
			U-1	660	Uncertain			
26	TN	Tuticorin TPP St-IV	U-1	525	Dec-20			
27	WB	Hiranmaye Energy Ltd (India Power corporation (Haladia) TPP	U-3	150	Uncertain			
	Total Private Sector			23730				
	Grand Total			64336.15				

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ANNEXURE REFERRED TO IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO. 3122 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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

State wise					(As on 31.05.2019)
Sl. No.	Name of Scheme (Executing Agency)	Sector	I.C. (No. x MW)	Cap. Under Execution (MW)	Likely Commissioning
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	Uhl-III (BVPCL)	State	3x33.33	100.00	2019-20 (Jan'20)
6	SawraKuddu (HPPCL)	State	3x37	111.00	2019-20 (Mar'20)
7	ShongtongKarcham (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	TangnuRomai (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	PakalDul (CVPPPL)	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+1x1 0	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+3x3 3+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	LataTapovan (NTPC)	Central	3x57	171.00	2023-24 *
29	TapovanVishnugad (NTPC)	Central	4x130	520.00	2020-21 (Dec'20)
30	Tehri PSS (THDC)	Central	4x250	1000.00	2021-23 (Jun'22)
31	VishnugadPipalkoti (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	PhataByung (LANCO)	Private	2x38	76.00	2021-22 *
35	SingoliBhatwari (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. 1<sup>st</sup> June, 2016. Matter Sub-judice.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3130  
TO BE ANSWERED ON 11.07.2019

ASSISTANCE FOR IRRIGATION FACILITY

†3130. SHRI JASWANT SINGH BHABHOR:

Will the Minister of POWER  
be pleased to state:

(a) whether the Government proposes to provide any assistance through electricity connection required for irrigation facility for development of agriculture in tribal areas in Dahod district of Gujarat and if so, the details thereof; and

(b) if not, the reasons therefor along with the further reaction of the Government in the matter?

A N S W E R

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

( SHRI R.K. SINGH)

(a): Government of Gujarat has informed that they are providing assistance through power connection for irrigation facility required for development of agriculture through Tribal Area Sub-Plan Scheme (TASP) in tribal areas of Dahod district of Gujarat. The power connection is given to individual agriculture applicants. Further, the applicant has to pay security deposit, Agreement fee and Test report charges only, while the cost of other HT/LT electric line & transformer charges is borne by the Government of Gujarat.

(b): In view of reply at (a) above, question does not arise.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3138  
TO BE ANSWERED ON 11.07.2019

GANDERBAL HYDROELECTRIC POWER PROJECT

3138. DR. FAROOQ ABDULLAH:

Will the Minister of POWER  
be pleased to state:

- (a) whether the 93 MW NewGanderbal Hydroelectric Power Project has been awarded/ allotted a long ago but no work has started till date; and
- (b) if so, the details thereof and the reasons therefor?

A N S W E R

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

(SHRI R.K. SINGH)

(a) & (b) : The work of 93 MW New Ganderbal Hydroelectric Power Project has not been started so far despite issuance of notification of award to the lowest bidder M/s. Hindustan Construction Company (HCC) on 08.08.2017 by J&K State Power Development Corporation (JKSPDC). M/s. HCC did not submit requisite Performance Bank Guarantee to JKSPDC and therefore, the, contract for the execution of the Project could not be signed. JKSPDC on 03.01.2018 invoked the bank guarantee (EMD) of M/s. HCC.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3150  
TO BE ANSWERED ON 11.07.2019

POWER TARIFFS FIXED BY CERC

3150. PROF. SAUGATA RAY:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Central Electricity Regulatory Commission (CERC) has fixed the power tariffs according to consumption of power;
- (b) if so, the details of power tariffs on various slabs;
- (c) whether the Government noticed that in New Delhi Municipal Council area, the consumers are levied more charges than their consumption; and
- (d) if so, the details thereof?

A N S W E R

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

( SHRI R.K. SINGH)

(a) & (b): The Electricity Act, 2003 has entrusted the responsibility of tariff fixation for retail supply tariff on the State/Joint Electricity Regulatory Commissions (SERCs/JERCs). In this regard, the Appropriate Commission notifies the Terms and Conditions of tariff fixation as per provisions and principles contained in Sections 61, 62 and 64 of the Electricity Act, 2003. The Central Electricity Regulatory Commission (CERC) determines the tariff for Central Government owned companies, companies having inter-state generation of electricity and inter-state transmission of electricity. CERC does not have jurisdiction to determine retail power tariff in respect of consumption of power.

(c) & (d): The Consumer Tariff determination for New Delhi Municipal Council (NDMC) area falls under the purview of Delhi Electricity Regulatory commission (DERC). The electricity consumers of NDMC area are charged for their consumption at the retail tariff determined by the DERC. As per the information received from DERC and NDMC, there is no casewhich has been brought to the notice of concerned authorities of consumers being levied more charges than their consumption.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3152  
TO BE ANSWERED ON 11.07.2019

ELECTRIFICATION OF VILLAGES

3152. SHRIMATI RATHVAGITABENVAJESINGBHAI:

Will the Minister of POWER  
be pleased to state:

- (a) whether the Government has chalked out any plan for electrification of all un-electrified villages across the country;
- (b) if so, the details thereof; and
- (c) the steps taken by the Government to work out off-grid solutions for electrification of villages located in far flung areas where grid extension is neither feasible nor cost effective?

A N S W E R

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

( SHRI R.K. SINGH)

(a) to (c): As reported by the States, all the inhabited census villages across the country stand electrified on 28.04.2018. There were 18,452 un-electrified villages in the country as reported by the States on 01.04.2015. Additional 1,227 villages were subsequently reported un-electrified by the States. During the execution of the programme 1305 villages were found uninhabited/permanent grazing reserve; and the remaining 18,734 villages were electrified. Out of them, 2762 villages were electrified through off-grid solutions.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3156  
TO BE ANSWERED ON 11.07.2019

PERFORMANCE OF POWER PLANTS

3156. SHRI RAJESHBHAICHUDASAMA:

Will the Minister of POWER  
be pleased to state:

- (a) whether the State run plants with combined capacity of 30,000 MW are more than 25 years old and are fit to be retired or retrofitted and if so, the details thereof;
- (b) whether these plants are operating at poor performance parameters such as high heat rate, high auxiliary power consumption and low plant load factor and if so, the details thereof;
- (c) whether most of these plants are loadcentre based plants and located far from coal mines leading to higher cost of transportation; and
- (d) if so, the details thereof?

A N S W E R

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

( SHRI R.K. SINGH)

(a): As on 31.03.2019, a total capacity of 34,297 MW Coal and Lignite based Thermal Power Plants comprising 19,237 MW (104 units) in State Sector and 15,060 MW (69 units) in Central Sector weremore than 25 years old.

Out of these plants, about 2,068 MW (7 units) capacity plants in State Sector and 630 MW (2 units) capacity plants in Central Sector have been identified to be retired in phased manner by the concerned utilities.The decision of retirement or retrofiting of the plant is taken by the concerned utility based on the techno-economic viability of the plant.

(b): Not all of these plants are operating at poor performance parameters.

(c) & (d) : Out of the total 34,297 MW capacity plants, 10,650 MW (58 units) in State sector and 1,810 MW (13 units) in Central sector are Load Centre Power plants.

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GOVERNMENT OF INDIA  
MINISTRY OF POWER

LOK SABHA  
UNSTARRED QUESTION NO.3176  
TO BE ANSWERED ON 11.07.2019

ASSESSMENT OF HYDRO POWER PRODUCTION CAPACITY

†3176.SHRI RAMCHARAN BOHRA:

Will the Minister of POWER  
be pleased to state:

- (a) the present capacity of hydropower production in the country, State/UT-wise;
- (b) whether the Government has assigned responsibility to various agencies for conducting survey for assessment/study of the said capacity and if so, the details thereof;
- (c) the quantum of hydro power being produced in the country presently by the States, State/UT-wise;
- (d) the number of hydro power projects pending in the country for various reasons, State/UT-wise;
- (e) the quantum of funds spent on these projects so far;
- (f) whether the Government has conducted any loss assessment occurring due to the delay; and
- (g) if so, the details thereof, State/UT-wise?

A N S W E R

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

( SHRI R.K. SINGH)

(a) to (c): Presently, 204 hydroelectric power generating stations (above 25 MW capacity) having an aggregate installed capacity of 45399.22 MW are in operation in the country. State/UT-wise installed capacity and energy generated from these hydroelectric stations during last year and current year (upto 30<sup>th</sup> June, 2019) are given at Annexure-I.

.....2.



As per reassessment studies of hydroelectric potential carried out by the Central Electricity Authority (CEA) in the country during the year 1978-87, the assessed hydro power potential (above 25 MW) is 1,45,320 MW. The state-wise details of potential and its status of development are enclosed at Annexure-II.

The responsibility for conducting the basin-wise re-assessment / study of Hydro Electric Potential has been entrusted by CEA to WAPCOS Ltd. in March, 2017 for carrying out the assessment after taking into consideration the actual site constraint i.e. geology, submergence and other aspects including impact of these projects on the Environment and Forest etc. The progress of the reassessment / study is being reviewed by a Monitoring Committee of CEA, Central Water Commission (CWC), Ministry of Environment, Forests & Climate Change (MoEF&CC), Survey of India (Sol) & National Remote Sensing Centre (NRSC).

(d) & (e): 36 hydro power projects (above 25 MW capacity) with an aggregate installed capacity of 12034.5 MW are presently under construction in the country and the fund spent so far on these projects is about Rupees 60,042 crores. Details of State-wise under construction hydro power projects are enclosed as Annexure-III.

(f) & (g): Out of these 36 under construction H.E. Projects, 35 hydro power projects except Natwar Mori H.E. Project are delayed. The annual generation loss from the delayed 35 HEPs is estimated at about 41,018 MU. The details in this regards, are given in Annexure-IV.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 3176 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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STATE / UT-WISE GENERATION FROM H.E. STATIONS (ABOVE 25 MW CAPACITY) IN THE COUNTRY			
STATE / UT	Installed Capacity* (MW) (as on 30.06.2019)	Actual Generation (MU)	
		2018-19	2019-20 (tentative as on 30.06.2019)
NORTHERN REGION			
HIMACHAL PRADESH	9809.02	35908.57	12829.31
JAMMU & KASHMIR	3449.00	16541.58	6002.22
PUNJAB	1096.30	4335.40	1426.09
RAJASTHAN	411.00	698.40	7.89
UTTAR PRADESH	501.60	1176.36	178.65
UTTRAKHAND	3756.35	13741.12	4090.09
TOTAL NORTHERN REGION	19023.27	72401.43	24534.25
WESTERN REGION			
CHHATISGARH	120.00	243.08	43.93
GUJRAT	1990.00	1042.81	138.76
MADHYA PRADESH	2235.00	3396.67	703.75
MAHARASTRA	3047.00	5076.86	1987.33
TOTAL WESTERN REGION	7392.00	9759.42	2873.77
SOUTHERN REGION			
ANDHRA PRADESH	1610.00	2272.94	457.11
KARNATAKA	3644.20	12187.69	2645.58
KERELA	1856.50	7320.21	1658.18
TAMIL NADU	2178.20	5281.59	479.35
TELENGANGA	2405.60	1744.61	38.80
TOTAL SOUTHERN REGION	11694.50	28807.04	5279.02
EASTERN REGION			
JHARKAND	210.00	180.98	8.30
ODISHA	2142.25	6777.45	1542.90
SIKKIM	2169.00	9022.07	3401.32
WEST BENGAL	1341.20	2919.81	738.17
TOTAL EASTERN REGION	5862.45	18900.31	5690.69
NORTH EASTERN REGION			
ARUNACHAL PRADESH	515.00	1399.01	405.71
ASSAM	350.00	1694.36	407.44
NAGALAND	75.00	231.47	14.99
MANIPUR	105.00	602.61	110.91
MEGHALAYA	322.00	929.53	218.20
MIZORAM	60.00	168.44	13.82
TOTAL NORTH EASTERN REGION	1427.00	5025.42	1171.07
TOTAL INDIA	45399.22	134893.62	39548.80

\* Including Pumped Storage Projects

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ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 3176 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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STATUS OF HYDRO ELECTRIC POTENTIAL DEVELOPMENT\*  
(In terms of Installed Capacity - Above 25 MW)

(As on 31.05.2019)

Region/ State	Identified Capacity as per reassessment study		Capacity		Capacity Under Construction**	
	Total (MW)	Above 25 MW	In Operation**		(MW)	(%)
			(MW)	%		
NORTHERN						
Jammu & Kashmir	14146	13543	3449.0	25.47	1935.5	14.29
Himachal Pradesh	18820	18540	9809.0	52.91	1885.0	10.17
Punjab	971	971	1096.3	100	206.0	21.22
Haryana	64	64	0.0	0	0.0	0.00
Rajasthan	496	483	411.0	85.09	0.0	0.00
Uttarakhand	18175	17998	3756.4	20.87	1490.0	8.28
Uttar Pradesh	723	664	501.6	75.54	0.0	0.00
Sub Total (NR)	53395	52263	19023.3	36.40	5516.5	10.56
WESTERN						
Madhya Pradesh	2243	1970	2235.0	100	400.0	20.30
Chhattisgarh	2242	2202	120.0	5.45	0.0	0.00
Gujarat	619	590	550.0	100	0.0	0.00
Maharashtra	3769	3314	2647.0	79.87	0.0	0.00
Goa	55	55	0.0	0.00	0.0	0.00
Sub-total (WR)	8928	8131	5552.0	68.28	400.0	4.92
SOUTHERN						
Andhra Pradesh	2366	2341	1610.0	68.77	960.0	41.01
Telangana	2058	2019	800.0	39.62	0.0	0.00
Karnataka	6602	6459	3644.2	56.42	0.0	0.00
Kerala	3514	3378	1856.5	54.96	100.0	2.96
Tamil Nadu	1918	1693	1778.2	100	0.0	0.00
Sub Total (SR)	16458	15890	9688.9	60.97	1060.0	6.67
EASTERN						
Jharkhand	753	582	170.0	29.21	0.0	0.00
Bihar	70	40	0.0	0.00	0.0	0.00
Odisha	2999	2981	2142.3	71.86	0.0	0.00
West Bengal	2841	2829	441.2	15.60	120.0	4.24
Sikkim	4286	4248	2169.0	51.06	1133.0	26.67
Sub Total (ER)	10949	10680	4922.5	46.09	1253.0	11.73
NORTH EASTERN						
Meghalaya	2394	2298	322.0	14.01	0.0	0.00
Tripura	15	0	0.0	0.00	0.0	0.00
Manipur	1784	1761	105.0	5.96	0.0	0.00
Assam	680	650	350.0	53.85	0.0	0.00
Nagaland	1574	1452	75.0	5.17	0.0	0.00
Arunachal Pradesh	50328	50064	515.0	1.03	2600.0	5.19
Mizoram	2196	2131	60.0	2.82	0.0	0.00
Sub Total (NER)	58971	58356	1427.0	2.45	2600.0	4.46
ALL INDIA	148701	145320	40613.6	27.95	10829.5	7.45

\* Excluding Pumped Storage Hydro Plants

\*\* Capacity above 25 MW

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ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 3176 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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

(As on 31.05.2019)

Sl. No.	Name of Scheme (Executing Agency)	Sector	Cap. Under Execution (MW)
	Andhra Pradesh	-	
1	Polavaram (APGENCO/Irrigation Dept., A.P.)	State	960.00
	Sub-total: Andhra Pradesh		960.00
	Arunachal Pradesh		
2	Kameng (NEEPCO)	Central	600.00
3	Subansiri Lower (NHPC)	Central	2000.00
	Sub-total: Arunachal Pradesh		2600.00
	Himachal Pradesh		
4	Parbati St. II (NHPC)	Central	800.00
5	Uhl-III (BVPCL)	State	100.00
6	SawraKuddu (HPPCL)	State	111.00
7	ShongtongKarcham (HPPCL)	State	450.00
8	Bajoli Holi (GMR)	Private	180.00
9	Sorang (HSPCL)	Private	100.00
10	TangnuRomai (TRPG)	Private	44.00
11	Tidong-I (Statkraft IPL)	Private	100.00
	Sub-total: Himachal Pradesh		1885.00
	Jammu & Kashmir		
12	PakalDul (CVPPL)	Central	1000.00
13	Parnai (JKSPDC)	State	37.50
14	Lower Kalnai (JKSPDC)	State	48.00
15	# Ratle (RHEPPL)	Private	850.00
	Sub-total: Jammu & Kashmir		1935.50
	Kerala		
16	Pallivasal (KSEB)	State	60.00
17	Thottiyar (KSEB)	State	40.00
	Sub-total: Kerala		100.00
	Madhya Pradesh		
18	## Maheshwar (SMHPCL)	Private	400.00
	Sub-total: Madhya Pradesh		400.00
	Maharashtra		
19	Koyna Left Bank (WRD,MAH)	State	80.00
	Sub-total: Maharashtra		80.00
	Punjab		
20	Shahpurkandi (PSPCL/ Irrigation Deptt.,Pb.)	State	206.00
	Sub-total: Punjab		206.00
	Sikkim		
21	Teesta St. VI (under NCLT)	-	500.00
22	Bhasmey (Gati Infrastructure)	Private	51.00
23	Rangit-IV (JAL Power)	Private	120.00
24	Rangit-II (Sikkim Hydro)	Private	66.00
25	Rongnichu (Madhya Bharat)	Private	96.00
26	Panan (Himagiri)	Private	300.00
	Sub-total: Sikkim		1133.00
	Tamil Nadu		
27	Kundah Pumped Storage	State	125.00
	Sub-total: Tamil Nadu		125.00
	Uttarakhand		
28	LataTapovan (NTPC)	Central	171.00
29	TapovanVishnugad (NTPC)	Central	520.00
30	Tehri PSS (THDC)	Central	1000.00
31	VishnugadPipalkoti (THDC)	Central	444.00
32	Naitwar Mori (SJVNL)	Central	60.00
33	Vyasi (UJVNL)	State	120.00
34	PhataByung (LANCO)	Private	76.00
35	SingoliBhatwari (L&T)	Private	99.00
	Sub-total: Uttarakhand		2490.00
	West Bengal		
36	Rammam-III (NTPC)	Central	120.00
	Sub-total: West Bengal		120.00
	Total:		12034.50

# 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.

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ANNEXURE REFERRED TO IN REPLY TO PARTS (f) & (g) OF UNSTARRED QUESTION NO. 3176 TO BE ANSWERED IN THE LOK SABHA ON 11.07.2019.

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Annual Generation Loss of Delayed Under Construction Hydro Electric Projects (above 25 MW) in the Country - State-wise

(As on 30.06.2019)

Sl. No.	Name of Scheme (Executing Agency)	Sector	Cap. Under Execution (MW)	Loss of Energy in MU / Year
Andhra Pradesh				
1	Polavaram (PPA)	State	960.00	2308.00
Sub-total: Andhra Pradesh			960.00	
Arunachal Pradesh				
2	Kameng (NEEPCO)	Central	600.00	3353.00
3	Subansiri Lower (NHPC)	Central	2000.00	7421.59
Sub-total: Arunachal Pradesh			2600.00	
Himachal Pradesh				
4	Parbati St. II (NHPC)	Central	800.00	3108.66
5	Uhl-III (BVPCL)	State	100.00	391.19
6	SawraKuddu (HPPCL)	State	111.00	386.00
7	ShongtongKarcham (HPPCL)	State	450.00	1578.95
8	Bajoli Holi (GMR)	Private	180.00	769.39
9	Sorang (HSPCL)	Private	100.00	524.00
10	TangnuRomai (TRPG)	Private	44.00	185.92
11	Tidong-I (NSL Tidong)	Private	100.00	414.15
Sub-total: Himachal Pradesh			1885.00	
Jammu & Kashmir				
12	PakalDul (CVPPL)	Central	1000.00	3330.18
13	Parnai (JKSPDC)	State	37.50	219.00
14	Lower Kalnai (JKSPDC)	State	48.00	219.30
15	Ratle (RHEPPL)	Private	850.00	3136.76
Sub-total: Jammu & Kashmir			1935.50	
Kerala				
16	Pallivasal (KSEB)	State	60.00	153.90
17	Thottiyar (KSEB)	State	40.00	99.00
Sub-total: Kerala			100.00	
Madhya Pradesh				
18	Maheshwar (SMHPCL)	Private	400.00	823.00
Sub-total: Madhya Pradesh			400.00	
Maharashtra				
19	Koyna Left Bank (WRD,MAH)	State	80.00	0.00
Sub-total: Maharashtra			80.00	
Punjab				
20	Shahpurkandi (PSPCL)	State	206.00	815.12
Sub-total: Punjab			206.00	
Sikkim				
21	Bhasmey (Gati Infrastructure)	Private	51.00	244.10
22	Rangit-IV (JAL Power)	Private	120.00	513.00
23	Rangit-II (Sikkim Hydro)	Private	66.00	272.00
24	Rongnichu (Madhya Bharat)	Private	96.00	383.87
25	Teesta St. VI (LANCO)	Private	500.00	2441.00
26	Panan (Himagiri)	Private	300.00	1147.82
Sub-total: Sikkim			1133.00	
Tamil Nadu				
27	Kundah Pumped Storage	State	125.00	
Sub-total: Tamil Nadu			125.00	
Uttarakhand				
28	LataTapovan (NTPC)	Central	171.00	868.89
29	TapovanVishnugad (NTPC)	Central	520.00	2558.36
30	Tehri PSS (THDC)	Central	1000.00	0.00
31	VishnugadPipalkoti (THDC)	Central	444.00	1674.00
32	Vyasi (UJVNL)	State	120.00	375.24
33	PhataByung (LANCO)	Private	76.00	340.00
34	SingoliBhatwari (L&T)	Private	99.00	487.00
Sub-total: Uttarakhand			2430.00	
West Bengal				
35	Rammam-III (NTPC)	Central	120.00	476.00
Sub-total: West Bengal			120.00	
Total:			11974.50	41018.39

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