

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.403
ANSWERED ON 30.03.2017

PENDING POWER PROJECTS

*403. SHRI B.V. NAIK:

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 during the last three years, State-wise;
- (b) the details of pending power projects, State-wise; and
- (c) the names of power projects pending in Karnataka and the time by which these projects are likely to be completed along with the action being taken by the Government in this direction?

A N S W E R

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

(SHRI PIYUSH GOYAL)

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

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO.403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

(a) : The details of sources of power generation in every State and the quantum of power generated during the last three years, State-wise from conventional sources is given at Annexure-I.

State-wise Installed capacity of Renewable Energy Sources (RES) as on 31.12.2016 and power generated during the last three years from RES is given at Annexure-IIA and Annexure-IIB respectively.

(b) : After enactment of the Electricity Act 2003, generation of electricity has been de-licensed. Techno-Economic Clearance of Central Electricity Authority (CEA) is not required for setting up of thermal power projects.

As per information available in CEA, 70 thermal power projects (above 25 MW), aggregating to 68766.15 MW, are under construction in the country. The state-wise details of such projects are furnished at Annexure-III.

Presently, 44 Hydro-electric projects (above 25 MW), aggregating to 11993.5 MW, are under construction in the country. The state-wise details of such projects are furnished at Annexure-IV.

Detailed Project Reports (DPRs) of another 44 hydropower projects, with an aggregate installed capacity of 26160 MW in the country, have been concurred by CEA, but these projects are yet to be taken up for construction due to various reasons. State wise details of the same are furnished at Annexure-VA.

Further, there are DPRs of 9 hydropower projects with an aggregate installed capacity of 6414 MW in the country, which are under examination in various appraising groups of CEA/CWC/CSMRS/MoWR, RD&GR for concurrence of CEA. State wise details of the same are furnished at Annexure-VB.

(c) : Thermal power projects totaling to 1970 MW are presently under construction in Karnataka. The details of these projects are given below:

Thermal power projects under construction in Karnataka

Sl. No.	Sector/Project Name	Implementing Agency	Unit No.	Unit Cap (MW)	Anticipated Comm. Date
Central Sector					
1	Kudgi STPP Ph-I	NTPC	U-3	800	07/2017
State Sector					
1	Yelahanka CCPP	KPCL	GT + ST	370	03/2018
2	Yermarus TPP	KPCL	2	800	03/2017
			Total	1970	

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

- (i) The CEA monitors the progress of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers. CEA also holds review meetings periodically with the developers and other stakeholders to identify and resolve issues that are critical for commissioning of 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.
- (iii) A Power Project Monitoring Panel (PPMP) has been set up by the Ministry of Power, for monitoring of on-going Thermal Generation projects targeted for commissioning during the 12th Plan period and beyond for online monitoring and resolution of issues.
- (iv) Issues are also raised in PRAGATI, for proactive governance and timely implementation, as and when required.

ANNEXURE REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

Statewise and fuel wise generation for current year and last three years

Region	State	CATEGORY	Fuel	Installed Capacity as on 28.02.2017	Power Generation (MUS)			
					2016-17 (upto-Feb. 17)*	2015-16	2014-15	2013-14
NR	BBMB	HYDRO	HYDRO	2866.30	9976.26	11818.90	10599.78	12125.01
	BBMB Total			2866.30	9976.26	11818.90	10599.78	12125.01
	DELHI	THERMAL	COAL	840.00	1703.15	2288.04	3704.75	4526.37
			NATURAL GAS	2208.40	4184.73	3918.06	5018.08	4111.30
	DELHI Total			3048.40	5887.88	6206.10	8722.83	8637.67
	HARYANA	HYDRO	HYDRO	0.00	0.00	0.00	0.00	0.00
		THERMAL	COAL	5540.00	16852.71	21146.50	27177.18	24642.35
			NATURAL GAS	431.59	927.33	1100.64	1571.43	1731.87
	HARYANA Total			5971.59	17780.04	22247.14	28748.61	26374.22
	HIMACHAL PRADESH	HYDRO	HYDRO	6757.02	25968.53	27087.49	23319.13	21680.66
	HIMACHAL PRADESH Total			6757.02	25968.53	27087.49	23319.13	21680.66
	JAMMU AND KASHMIR	HYDRO	HYDRO	3119.00	14151.57	15136.15	14485.02	12426.79
		THERMAL	HIGH SPEED DIESEL	175.00	0.00	0.00	0.00	0.00
	JAMMU AND KASHMIR Total			3294.00	14151.57	15136.15	14485.02	12426.79
	PUNJAB	HYDRO	HYDRO	1051.00	3319.43	4327.84	4039.07	3913.52
		THERMAL	COAL	6540.00	21592.01	19015.05	18921.83	16817.97
	PUNJAB Total			7591.00	24911.44	23342.89	22960.90	20731.49
	RAJASTHAN	HYDRO	HYDRO	411.00	870.51	1033.80	863.33	1059.98
		NUCLEAR	NUCLEAR	1180.00	6707.08	8419.24	7722.39	9233.13
		THERMAL	COAL	6260.00	30206.06	32882.92	32759.78	25777.92
			LIGNITE	1580.00	7480.63	8776.53	9089.71	6010.48
			NATURAL GAS	1023.13	2026.69	2834.86	3750.71	3769.85
	RAJASTHAN Total			10454.13	47290.97	53947.35	54185.92	45851.36
	UTTAR PRADESH	HYDRO	HYDRO	501.60	1101.31	935.08	1247.69	1241.73
		NUCLEAR	NUCLEAR	440.00	3047.08	3432.60	2890.54	2703.50
		THERMAL	COAL	20383.00	103124.98	102450.54	103569.23	102705.93
			NATURAL GAS	1493.14	2598.16	4511.31	4194.28	5191.85
	UTTAR PRADESH Total			22817.74	109871.53	111329.53	111901.74	111843.01
	UTTARAKHAND	HYDRO	HYDRO	3756.35	12616.65	12765.92	11439.22	11025.01
		THERMAL	NATURAL GAS	450.00	786.90	0.00	0.00	0.00
	UTTARAKHAND Total			4206.35	13403.55	12765.92	11439.22	11025.01
WR	CHHATTISGARH	HYDRO	HYDRO	120.00	151.52	323.30	258.18	251.51
		THERMAL	COAL	20308.00	95224.95	89189.99	79452.39	70678.61
	CHHATTISGARH Total			20428.00	95376.47	89513.29	79710.57	70930.12
	GOA	THERMAL	NAPHTHA	48.00	0.00	0.00	12.61	241.32
	GOA Total			48.00	0.00	0.00	12.61	241.32
	GUJARAT	HYDRO	HYDRO	1990.00	3782.50	2951.85	3811.58	7106.29
		NUCLEAR	NUCLEAR	440.00	0.00	2028.17	3529.40	3752.43
		THERMAL	COAL	14432.00	72326.13	81254.47	84968.56	74375.30
			LIGNITE	1290.00	5537.07	6126.79	6258.01	5813.03
			NATURAL GAS	7695.41	9544.46	12555.98	6970.99	6151.64
	GUJARAT Total			25847.41	91190.16	104917.26	105538.54	97198.69
	MADHYA PRADESH	HYDRO	HYDRO	2395.00	7058.57	4869.82	6299.75	9215.93
		THERMAL	COAL	17065.00	82772.38	90870.68	68912.72	50430.94
	MADHYA PRADESH Total			19460.00	89830.95	95740.50	75212.47	59646.87
	MAHARASHTRA	HYDRO	HYDRO	2887.00	5044.67	4700.37	5287.88	6255.03
		NUCLEAR	NUCLEAR	1400.00	9835.35	10389.14	10269.89	9884.54
		THERMAL	COAL	23356.00	82694.17	96855.01	87035.78	72507.42
			NATURAL GAS	3460.00	8622.34	5299.91	4715.66	6052.95
	MAHARASHTRA Total			31103.00	106196.53	117244.43	107309.21	94699.94
SR	ANDHRA PRADESH	HYDRO	HYDRO	1150.00	898.98	671.33	1862.48	2026.57
		THERMAL	COAL	10990.00	52254.39	52023.75	40821.87	38256.22
			DIESEL	36.80	0.00	0.00	0.00	0.00
			NATURAL GAS	4880.40	5584.87	5535.51	2561.07	5244.06
	ANDHRA PRADESH Total			17057.20	58738.24	58230.59	45245.42	45526.85
	KARNATAKA	HYDRO	HYDRO	3657.40	5678.30	7479.37	13160.29	13026.82
		NUCLEAR	NUCLEAR	880.00	5961.92	7672.71	6462.17	6539.06
		THERMAL	COAL	7080.00	27675.32	32401.17	30540.83	29774.22
			DIESEL	153.12	0.00	0.00	0.00	24.41
	KARNATAKA Total			11770.52	39315.54	47553.25	50163.29	49364.51

	KERALA	HYDRO	HYDRO	1881.50	3661.57	6363.75	6852.65	7708.18
		THERMAL	DIESEL	159.96	46.92	146.84	207.69	220.88
			NAPHTHA	533.58	15.40	142.75	973.83	1320.74
	KERALA Total			2575.04	3723.89	6653.34	8034.17	9249.80
	PUDUCHERRY	THERMAL	NATURAL GAS	32.50	224.95	227.59	102.14	256.97
	PUDUCHERRY Total			32.50	224.95	227.59	102.14	256.97
	TAMIL NADU	HYDRO	HYDRO	2203.20	2246.96	4474.27	5058.95	4994.75
		NUCLEAR	NUCLEAR	1440.00	8585.01	5471.76	5227.15	2115.13
		THERMAL	COAL	9860.00	44270.82	44371.67	35818.52	28299.38
			DIESEL	411.70	12.01	76.23	1045.97	1451.39
			LIGNITE	3240.00	18600.87	19341.12	20155.96	20416.18
			NAPHTHA	120.00	10.42	8.72	2.85	0.85
			NATURAL GAS	897.18	2520.02	2663.06	4109.01	4933.02
	TAMIL NADU Total			18172.08	76246.11	76406.83	71418.41	62210.70
	TELANGANA	HYDRO	HYDRO	2766.60	1937.93	1515.47	4400.92	4502.16
		THERMAL	COAL	6682.50	36813.52	35352.73	36501.05	34650.71
	TELANGANA Total			9449.10	38751.45	36868.20	40901.97	39152.87
ER	ANDAMAN NICOBAR	THERMAL	DIESEL	40.05	184.97	182.85	153.76	171.49
	ANDAMAN NICOBAR Total			40.05	184.97	182.85	153.76	171.49
	BIHAR	HYDRO	HYDRO	0.00	0.00	0.00	0.00	0.00
		THERMAL	COAL	4535.00	22176.85	20827.01	18272.27	14939.36
	BIHAR Total			4535.00	22176.85	20827.01	18272.27	14939.36
	DVC	HYDRO	HYDRO	143.20	246.06	176.51	267.30	225.63
		THERMAL	COAL	7640.00	30167.58	27853.42	25283.81	27889.66
	DVC Total			7783.20	30413.64	28029.93	25551.11	28115.29
	JHARKHAND	HYDRO	HYDRO	130.00	30.13	51.24	33.73	109.53
		THERMAL	COAL	2825.00	13616.46	15882.43	14588.15	14235.65
	JHARKHAND Total			2955.00	13646.59	15933.67	14621.88	14345.18
	ORISSA	HYDRO	HYDRO	2142.25	4560.10	4910.34	6919.49	7547.45
		THERMAL	COAL	8880.00	46724.37	52311.46	44412.95	38664.74
	ORISSA Total			11022.25	51284.47	57221.80	51332.44	46212.19
	SIKKIM	HYDRO	HYDRO	1965.00	3980.47	3551.92	3345.29	2945.38
		THERMAL	DIESEL	0.00	0.00	0.00	0.00	0.00
	SIKKIM Total			1965.00	3980.47	3551.92	3345.29	2945.38
	WEST BENGAL	HYDRO	HYDRO	1278.00	2571.36	2025.33	2149.81	1395.56
		THERMAL	COAL	9375.00	45198.09	44921.29	47592.21	44674.32
			HIGH SPEED DIESEL	80.00	0.00	0.00	0.00	0.00
	WEST BENGAL Total			10733.00	47769.45	46946.62	49742.02	46069.88
NER	ARUNACHAL PRADESH	HYDRO	HYDRO	405.00	1200.35	1280.25	1109.48	980.94
	ARUNACHAL PRADESH Total			405.00	1200.35	1280.25	1109.48	980.94
	ASSAM	HYDRO	HYDRO	325.00	1423.83	1190.68	1031.89	1215.95
		THERMAL	COAL	250.00	1517.71	117.12	0.00	0.00
			MULTI FUEL	60.00	0.00	0.00	0.00	0.00
			NATURAL GAS	614.45	2575.02	3214.32	3267.95	3149.27
	ASSAM Total			1249.45	5516.56	4522.12	4299.84	4365.22
	MANIPUR	HYDRO	HYDRO	105.00	707.70	536.64	372.44	639.84
		THERMAL	DIESEL	36.00	0.00	0.00	0.00	0.00
	MANIPUR Total			141.00	707.70	536.64	372.44	639.84
	MEGHALAYA	HYDRO	HYDRO	332.00	890.27	1035.99	863.15	981.61
	MEGHALAYA Total			332.00	890.27	1035.99	863.15	981.61
	NAGALAND	HYDRO	HYDRO	75.00	254.55	163.14	165.15	245.71
	NAGALAND Total			75.00	254.55	163.14	165.15	245.71
	TRIPURA	THERMAL	NATURAL GAS	1132.10	5298.43	5109.38	3824.44	2366.49
	TRIPURA Total			1132.10	5298.43	5109.38	3824.44	2366.49
IMPORT	Bhutan (IMP)	HYDRO	HYDRO		5585.15	5244.21	5007.74	5597.90
	Bhutan (IMP) Total				5585.15	5244.21	5007.74	5597.90
	Grand Total			265317.43	1057745.51	1107822.28	1048672.96	967150.34

* PROVISIONAL BASED ON ACTUAL-CUM-ASSESSMENT

- Note:
1. Generation includes generation from plants 25 MW & above capacity (from conventional sources i.e. hydro, thermal and nuclear only).
 2. Figures given above indicate gross generation of all power stations (Central, State & Private Sector) located geographically in the respective State/UT.
 3. Generation does not include Renewable Energy Resources (RES) generation.

ANNEXURE REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

State/UT-wise Installed Capacity of grid interactive renewable power as on 31.12.2016

All figures in MW

Sl. No.	State /UTs	Wind	Solar	Biomass	Bagasse	Small Hydro	Total
1	Chandigarh		16.20			0.00	16.20
2	Delhi		38.78		16.00	0.00	54.78
3	Haryana		53.27	96.40		73.50	223.17
4	Himachal Pradesh		0.33			798.81	799.14
5	Jammu & Kashmir		1.00			158.03	159.03
6	Punjab		545.43	62.00	9.25	170.90	787.58
7	Rajasthan	4216.72	1317.64	119.25		23.85	5677.46
8	Uttar Pradesh		239.26	1933.11	5.00	25.10	2202.47
9	Uttarakhand		45.10	72.72		209.33	327.15
10	Chhattisgarh		135.19	228.50		76.00	439.69
11	Goa		0.05			0.05	0.10
12	Gujarat	4441.57	1158.50	65.30		16.60	5681.97
13	Madhya Pradesh	2288.60	840.35	92.53	3.90	86.16	3311.54
14	Maharashtra	4666.03	430.46	1967.85	12.72	346.18	7423.24
15	Dadra & Nagar Haveli		0.60			0.00	0.60
16	Daman & Diu		4.00			0.00	4.00
17	Andhra Pradesh	2092.50	979.65	378.20	58.16	241.98	3750.49
18	Telangana	98.70	973.41	158.10		0.00	1230.21
19	Karnataka	3154.20	327.53	1401.08	1.00	1220.73	6104.54
20	Kerala	43.50	15.86			205.02	264.38
21	Tamil Nadu	7694.33	1590.97	889.40	8.05	123.05	10305.80
22	Lakshadweep		0.75			0.00	0.75
23	Puducherry		0.03			0.00	0.03
24	Andaman & Nicobar		5.40			5.25	10.65
25	Bihar		95.91	92.50		70.70	259.11
26	Jharkhand		17.51			4.05	21.56
27	Odisha		77.64			64.63	142.27
28	Sikkim		0.01			52.11	52.12
29	West Bengal		23.07	300.00		98.50	421.57
30	Arunachal Pradesh		0.27			104.61	104.87
31	Assam		11.18			34.11	45.29
32	Manipur		0.01			5.45	5.46
33	Meghalaya		0.01			31.03	31.04
34	Mizoram		0.10			41.47	41.57
35	Nagaland		0.50			30.67	31.17
36	Tripura		5.02			16.01	21.03
37	Others	4.30	61.70			0.00	66.00
	Total	28700.45	9012.68	7856.94	114.08	4333.87	50018.02

Source: Ministry of New and Renewable Energy

ANNEXURE REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

GENERATION from Various Renewable Energy Sources for the Year 2014 - 15								
(Tentative, as per information received in CEA)								
							(All figures in MU)	
Sl. No.	State / Utility	Wind	Solar	Biomass	Baggase	Small Hydro	Others	Total
1	Chandigarh	0.00	2.23	0.00	0.00	0.00	0.00	2.23
2	Delhi	0.00	3.18	0.00	0.00	0.00	113.44	116.63
3	Haryana	0.00	10.36	111.71	67.65	280.96	0.00	470.69
4	HP	0.00	0.00	0.00	0.00	1685.08	0.00	1685.08
5	J & K	0.00	0.00	0.00	0.00	313.23	0.00	313.23
6	Punjab	0.00	129.89	347.23	138.64	543.53	0.00	1159.29
7	Rajasthan	4053.85	1259.19	278.24	0.00	5.30	0.00	5596.57
8	Uttar Pradesh	0.00	20.13	89.17	2823.19	30.30	177.91	3140.70
9	Uttarakhand	0.00	11.63	0.00	87.50	565.25	0.00	664.38
10	NTPC (Dadri, Faridabad & Unchahar)	0.00	22.90	0.00	0.00	0.00	0.00	22.90
11	Oil India Ltd	117.78	9.14	0.00	0.00	0.00	0.00	126.93
12	Chhattisgarh	0.00	13.54	1044.35	0.00	8.40	0.00	1066.29
13	NTPC Rajgarh	0.00	62.94	0.00	0.00	0.00	0.00	62.94
14	Gujarat	5660.09	1474.56	40.48	0.00	47.13	0.00	7222.27
15	Madhya Pradesh	592.25	562.29	74.13	0.00	196.71	2.13	1427.51
16	Maharashtra	6804.80	349.32	163.53	2690.18	275.82	0.28	10283.93
17	Dadra & Nagar Haveli	0.00	0.03	0.00	0.00	0.00	0.00	0.03
18	Daman & Diu	0.00	0.15	0.00	0.00	0.00	0.00	0.15
19	Andhra Pradesh	1675.82	159.77	313.35	273.30	274.61	14.20	2711.06
20	Telangana	0.00	138.12	161.23	378.40	60.43	64.68	802.86
21	Karnataka	4658.10	100.39	208.15	2882.51	1845.75	0.00	9694.90
22	Kerala	58.40		0.71	0.00	570.53	0.00	629.64
23	NTPC Ramagundam	0.00	15.62	0.00	0.00	0.00	0.00	15.62
24	Tamil Nadu	10147.06	158.75	325.60	1044.19	226.81	0.00	11902.39
25	Lakshadweep	0.00	5.13	0.00	0.00	0.00	40.96	46.09
26	Andaman & Nicobar	0.00	0.00	0.00	0.00	0.47	0.00	0.47
27	Bihar	0.00	0.00	1.97	178.14	29.01	0.00	209.13
28	Jharkhand	0.00	8.32	0.00	0.00		0.00	8.32
29	Odisha	0.00	44.94	0.00	0.00	284.88	0.00	329.82
30	Sikkim	0.00	0.00	0.00	0.00	20.88	0.00	20.88
31	West Bengal	0.16	7.07	0.00	1220.97	325.43	0.00	1553.63
32	DVC	0.00	0.00	0.00	0.00	146.86	0.00	146.86
33	NTPC (Andaman & Talcher)	0.00	18.79	0.00	0.00		0.00	18.79
34	Arunachal Pradesh	0.00	0.00	0.00	0.00	51.94	0.00	51.94
35	Assam	0.00	9.65	0.00	0.00	54.87	0.00	64.52
36	Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	Meghalaya	0.00	0.00	0.00	0.00	66.94	0.00	66.94
38	Mizoram	0.00	0.00	0.00	0.00	34.86	0.00	34.86
39	Nagaland	0.00	0.00	0.00	0.00	84.14	0.00	84.14
40	Tripura	0.00	0.00	0.00	0.00	29.37	0.00	29.37
41	NEEPCO	0.00	0.98	0.00	0.00		0.00	0.98
	Total	33768.30	4599.02	3159.85	11784.66	8059.50	413.60	61784.93

GENERATION from Various Renewable Energy Sources for the Year 2015 - 16
(Tentative, as per information received in CEA)

							(All figures in MU)	
Sl. No.	State/Utility	Wind	Solar	Biomass	Bagasse	Small Hydro	Others	Total
1	Chandigarh	0.00	3.40	0.00	0.00	0.00	0.00	3.40
2	Delhi	0.00	4.11	0.00	0.00	0.00	124.87	128.97
3	Haryana	0.00	114.96	170.86	64.69	992.65	0.00	1343.15
4	HP	0.00	0.00	0.00	0.00	1921.77	0.00	1921.77
5	J & K	0.00	0.00	0.00	0.00	304.79	0.00	304.79
6	Punjab	0.00	380.57	408.66	194.88	490.08	0.00	1474.20
7	Rajasthan	4583.59	1766.10	245.49	0.00	5.06	0.00	6600.24
8	Uttar Pradesh	0.00	89.75	190.19	2839.11	29.73	52.71	3201.49
9	Uttarakhand .	0.00	5.87	0.00	91.86	605.69	0.00	703.42
10	NTPC (Dadri, Faridabad, Unchahar & Singrauli)	0.00	42.41	0.00	0.00	0.00	0.00	42.41
11	Oil India Ltd	183.77	9.90	0.00	0.00	0.00	0.00	193.67
12	Chhattisgarh	0.00	52.70	1119.32	0.00	30.41	0.00	1202.42
13	NTPC Rajgarh	0.00	81.00	0.00	0.00	0.00	0.00	81.00
14	Gujarat	6446.58	1497.60	23.28	0.00	36.27	0.00	8003.73
15	Madhya Pradesh	1558.43	1105.28	125.83	0.00	118.54	2.34	2910.42
16	Maharashtra	6121.34	638.76	303.66	3129.75	562.77	0.30	10756.58
17	Dadra and Nagar Haveli	0.00	0.50	0.00	0.00	0.00	0.00	0.50
18	Daman & Diu	0.00	4.25	0.00	0.00	0.00	0.00	4.25
19	Andhra Pradesh	2013.04	282.67	424.64	274.64	103.10	8.52	3106.61
20	Telangana	0.00	402.51	180.06	316.84	48.69	79.80	1027.90
21	Karnataka	4797.95	187.69	201.17	3390.75	1483.48	0.00	10061.03
22	Kerala	51.45	7.38	5.35	67.61	486.99	0.00	618.78
23	NTPC Ramagundam	0.00	16.02	0.00	0.00	0.00	0.00	16.02
24	Tamil Nadu	7273.23	507.18	308.21	1028.84	214.02	0.00	9331.47
25	Lakshadweep	0.00	1.02	0.00	0.00	0.00	0.00	1.02
26	Andaman & Nicobar	0.00	6.26	0.00	0.00	12.46	0.00	18.72
27	Bihar	0.00	6.39	0.00	110.02	48.69	0.00	165.11
28	Jharkhand	0.00	19.77	0.00	0.00	0.00	0.00	19.77
29	Odisha	0.00	150.73	20.48	0.00	263.24	0.00	434.45
30	Sikkim	0.00	0.00	0.00	0.00	41.93	0.00	41.93
31	West Bengal	0.00	6.28	0.00	1444.30	157.57	0.00	1608.15
32	DVC	0.00	0.00	0.00	0.00	118.26	0.00	118.26
33	NTPC (Andaman & Talcher)	0.00	18.91	0.00	0.00	0.00	0.00	18.91
34	Arunachal Pradesh	0.00	0.22	0.00	0.00	18.22	0.00	18.44
35	Assam	0.00	31.60	0.00	0.00	59.34	0.00	90.94
36	Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	Meghalaya	0.00	0.00	0.00	0.00	65.96	0.00	65.96
38	Mizoram	0.00	0.00	0.00	0.00	27.62	0.00	27.62
39	Nagaland	0.00	0.00	0.00	0.00	88.73	0.00	88.73
40	Tripura	0.00	0.00	0.00	0.00	18.47	0.00	18.47
41	NEEPCO	0.00	6.15	0.00	0.00	0.00	0.00	6.15
	Total	33029.39	7447.92	3727.21	12953.29	8354.51	268.53	65780.85

GENERATION from Various Renewable Energy Sources for the period
April, 2016 to February, 2017

(Tentative, as per information received in CEA)

(All figures in MU)

Sl. No.	State/Utility	Wind	Solar	Biomass	Bagasse	Small Hydro	Others	Total
1	Chandigarh	0.00	12.82	0.00	0.00	0.00	0.00	12.82
2	Delhi	0.00	4.26	0.00	0.00	0.00	118.17	122.42
3	Haryana	0.00	15.99	172.85	6.38	225.21	0.00	420.42
4	HP	0.00	0.00	0.00	0.00	1968.75	0.00	1968.75
5	J & K	0.00	0.49	0.00	0.00	299.02	0.00	299.51
6	Punjab	0.00	756.19	483.03	171.39	385.16	72.03	1867.80
7	Rajasthan	5210.54	1924.06	243.54	0.00	5.34	0.00	7383.47
8	Uttar Pradesh	0.00	194.60	145.39	2640.57	24.77	69.30	3074.63
9	Uttarakhand	0.00	28.26	0.00	67.79	751.25	0.00	847.29
10	NTPC Dadri, Faridabad, Unchahar, Singrauli & Bhadla)	0.00	48.73	0.00	0.00	0.00	0.00	48.73
11	Oil India Ltd	185.94	21.20	0.00	0.00	0.00	0.00	207.14
12	Chhattisgarh	0.00	108.85	1154.00	0.00	41.27	0.00	1304.12
13	NTPC Rajgarh	0.00	75.02	0.00	0.00	0.00	0.00	75.02
14	Gujarat	7129.44	1561.84	10.08	0.00	23.62	0.00	8724.98
15	Madhya Pradesh	3266.90	1217.73	82.98	0.00	209.17	22.64	4799.42
16	Maharashtra	7195.61	517.48	520.94	1916.15	523.68	0.20	10674.06
17	Dadra and Nagar Haveli	0.00	1.11	0.00	0.00	0.00	0.00	1.11
18	Daman & Diu	0.00	12.55	0.00	0.00	0.00	0.00	12.55
19	Andhra Pradesh	2991.45	1392.06	316.97	155.67	155.75	6.67	5018.57
20	Telangana	197.11	1123.31	157.87	169.47	49.47	31.10	1728.33
21	Karnataka	5764.68	426.24	143.91	1220.82	1574.33	93.77	9223.74
22	Kerala	69.85	23.67	44.43	16.58	374.73	0.00	529.25
23	NTPC (Ramagundam & Anantapuram)	0.00	311.68	0.00	0.00	0.00	0.00	311.68
24	Tamil Nadu	11634.38	1674.74	322.14	815.55	91.36	0.00	14538.17
25	Lakshadweep	0.00	1.37	0.00	0.00	0.00	0.00	1.37
26	Puducherry	0.00	0.35	0.00	0.00	0.00	0.00	0.35
27	Andaman & Nicobar	0.00	5.65	0.00	0.00	13.24	0.00	18.89
28	Bihar	0.00	94.86	0.00	122.84	21.33	0.00	239.04
29	Jharkhand	0.00	34.88	0.00	0.00	0.00	0.00	34.88
30	Odisha	0.00	185.23	57.85	0.00	225.96	0.00	469.04
31	Sikkim	0.00	0.00	0.00	0.00	35.88	0.00	35.88
32	West Bengal	0.00	13.22	0.00	1310.33	104.79	0.00	1428.34
33	DVC	0.00	0.01	0.00	0.00	130.75	0.00	130.76
34	NTPC (Andaman & Talcher)	0.00	18.12	0.00	0.00	0.00	0.00	18.12
35	Arunachal Pradesh	0.00	0.13	0.00	0.00	13.43	0.00	13.56
36	Assam	0.00	42.39	0.00	0.00	80.08	0.00	122.47
37	Manipur	0.00	0.01	0.00	0.00	0.00	0.00	0.01
38	Meghalaya	0.00	0.00	0.00	0.00	57.08	0.00	57.08
39	Mizoram	0.00	0.00	0.00	0.00	47.19	0.00	47.19
40	Nagaland	0.00	0.00	0.00	0.00	88.99	0.00	88.99
41	Tripura	0.00	0.00	0.00	0.00	43.04	0.00	43.04
42	NEEPCO	0.00	6.27	0.00	0.00	0.00	0.00	6.27
	Total	43645.88	11855.00	3855.97	8613.54	7564.65	413.89	75949.27

Note 1) All figures are tentative

2) Data as received from SLDC of the respective states or from the electricity department

ANNEXURE REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

Details of Pending Thermal Power Projects under construction in the country including Karnataka							
Sl. No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.
	CENTRAL SECTOR						
1	Assam	Bongaigaon TPP/ NTPC/ BHEL	Feb-08	U-3	250	Sep-11	Jun-17
2	Bihar	Barh STPP-I /NTPC/Others	Mar-05	U-1	660	May-17 *	May-17
				U-2	660	Nov-17 *	Nov-17
				U-3	660	May-18 *	May-18
3	Bihar	Muzaffarpur TPP(Kanti) Exp/ JV of NTPC& BSEB/BHEL	Apr-10	U-4	195	Jan-13	Mar-17
4	Bihar	Nabi Nagar TPP / JV of NTPC & Rlys/BHEL	Jan-08	U-2	250	May-13	Mar-17
				U-3	250	Aug-13	Jul-17
				U-4	250	Nov-13	Oct-17
5	Bihar	New Nabi Nagar TPP /JV of NTPC & BSPGCL, TG-Alstom & Bharat Forge, SG-BHEL	Jan-13	U-1	660	Jan-17	Jun-17
				U-2	660	Jul-17	Dec-17
				U-3	660	Jan-18	Jun-18
6	Chhattisgarh	Lara TPP/NTPC / SG-Doosan TG-BGR Hitachi	Dec-12	U-1	800	Dec-16	Mar-17
				U-2	800	Jun-17	Sep-17
7	Jharkhand	North Karanpura TPP/ NTPC / BHEL	Feb-14	U-1	660	Feb-18	Feb-19
				U-2	660	Aug-18	Aug-19
				U-3	660	Feb-19	Feb-20
8	Karnataka	Kudgi STPP Ph-I/ NTPC/ SG - Doosan TG-Toshiba	Feb-12	U-3	800	Jan-17	Aug-17
9	Maharashtra	Solapur STPP/ NTPC/ SG-BGR & Hitachi, TG-Alstom & Bharat Forge	Apr-12	U-1	660	May-16	Mar-17
				U-2	660	Nov-16	Aug-17
10	MP	Gadarwara TPP/ NTPC /BTG-BHEL	Mar-13	U-1	800	Mar-17	Jun-17
				U-2	800	Sep-17	Dec-17
11	MP	Khargone TPP/ NTPC/ EPC - L&T	Mar-15	U-1	660	Mar-19	Mar-19
				U-2	660	Sep-19	Sep-19
12	Odisha	Darlipalli STPP/ NTPC / SG- BHEL TG-JSW & Toshiba	Feb-14	U-1	800	Feb-18	Feb-18
				U-2	800	Jun-18	Jun-18
13	Telangana	Telangana Ph- I / NTPC/SG- BHEL TG- Alstom & Bharatforge	Feb-16	U-1	800	Jan-20	Jan-20
				U-2	800	Jul-20	Jul-20
14	TN	Neyveli New TPP/ NLC/BHEL	Dec-13	U-1	500	Jun-15	Nov-17
				U-2	500	Dec-15	May-18
15	UP	Unchahar - IV / NTPC/ NBPPL/BHEL	Aug-13	U-6	500	Dec-16	Mar-17
16	UP	Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR TG-Toshiba	Apr-12	U-1	660	Jun-16	Mar-17
				U-2	660	Dec-16	Oct-17
17	UP	Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd.	Aug-16	U-1	660	Feb-21	Feb-21
				U-2	660	Aug-21	Aug-21
				U-3	660	Feb-22	Feb-22
18	UP	Tanda TPP/ NTPC\ SG: L&T/ TG: Alstom	Sep-14	U-1	660	Sep-18	Sep-18
				U-2	660	Mar-19	Mar-19
	Total Central Sector				23095		
STATE SECTOR							
1	A.P	Dr.Narla Tata Rao TPS St-V / APGENCO / BTG- BHEL	Oct-15	U-1	800	Jun-19	Jun-19
2	A.P	Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG- BHEL	Nov-15	U-1	800	Mar-19	Mar-19
3	AP	Rayalaseema TPP St-IV / APGENCO/ BTG-BHEL	Oct-10	U-6	600	Jul-14	Jun-17
4	Assam	Namrup CCGT / APGCL / BHEL	Feb-09	ST	36.15	Jan-12	Sep-17

5	Bihar	Barauni TPS Extn./ BSEB/ EPC - BHEL	Mar-11	U-8	250	May-14	Jul-17
				U-9	250	Jul-14	Dec-17
6	Gujarat	Bhavnagar CFBC TPP / BECL / BTG-BHEL	Mar-10	U-2	250	Dec-13	Mar-17
7	Gujarat	Wanakbori TPS Extn. / GSECL SG-Alstom, TG-Siemens	Oct-14	U-8	800	Oct-18	Oct-18
8	Karnataka	Yermarus TPP/ KPCL BTG-BHEL	Apr-10	U-2	800	Oct-14	Mar-17
9	Karnataka	Yelahanka CAPP BY KPCL	Nov-15	U-1	370	Mar-17	Mar-18
10	MP	Shri Singhaji TPP St-II / MPGENCO EPC-L&T	Sep-14	U-3	660	Jul-18	Jul-18
				U-4	660	Nov-18	Nov-18
11	Odisha	Ib valley TPP / OPGCL BTG-BHEL	Mar-14	U-3	660	Aug-17	Mar-18
				U-4	660	Jan-18	May-18
12	Rajasthan	Chhabra TPP Extn./RRVUNL / L&T-MHI	Mar-13	U-5	660	Jun-16	Mar-17
				U-6	660	Jun-18	Dec-18
13	Rajasthan	Suratgarh SCTPP/ RRVUNL / BHEL	May-13	U-7	660	Sep-16	Mar-17
				U-8	660	Dec-16	Apr-17
14	Telangana	Kothagudem TPS St-VII/ TSGENCO BTG-BHEL	Jan-15	U-1	800	Nov-17	Jul-18
15	Telangana	Bhadradri TPP / TSGENCO/ BHEL	Mar-15	U-1	270	Feb-17	Dec-17
				U-2	270	Apr-17	Feb-18
				U-3	270	Jun-17	May-18
				U-4	270	Aug-17	Aug-18
16	TN	Ennore exp. SCTPP (Lanco) / TANGEDCO, BTG-LANCO	May-14	U-1	660	Jan-18	Sep-18
17	TN	Ennore SCTPP / TANGEDCO/ BHEL	Sep-14	U-1	660	Jan-18	Sep-18
				U-2	660	Mar-18	Mar-19
18	TN	North Chennai TPP St-III TANGEDCO / BHEL	Jan-16	U-1	800	Jul-19	Jul-19
19	TN	Uppur Super Critical TPP TANGEDCO /BHEL	Feb-16	U-1	800	NA	NA
				U-2	800	NA	NA
20	UP	Harduaganj TPS Exp-II / UPRVUNL/Toshiba JSW	Sep-15	U-1	660	Jun-19	Jun-19
Total State Sector					17156.2		
PRIVATE SECTOR							
1	AP	Bhavanapadu TPP Ph-I / East Coast Energy Ltd., BTG-Chinese	Sep-09	U-1	660	Oct-13	Dec-17*
				U-2	660	Mar-14	May-18*
2	AP	Thamminapatnam TPP stage - II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese	Dec-09	U-3	350	May-12	Dec-17
				U-4	350	Aug-12	Mar-18
3	Bihar	Jas Infra. TPP / JICPL BTG-Chinese	Mar-11	U-1	660	Aug-14	Uncertain*
				U-2	660	Dec-14	Uncertain*
				U-3	660	Apr-15	Uncertain*
				U-4	660	Aug-15	Uncertain*
4	Chhattisgarh	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Chinese	Apr-09	U-3	600	Dec-12	May-17
				U-4	600	Apr-13	Aug-17
				U-5	600	Aug-13	Mar-18
				U-6	600	Dec-13	Jun-18
5	Chhattisgarh	Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. SG-Cethar Vessels, TG-Harbin China	Mar-11	U-1	300	Aug-13	Mar-17
				U-2	300	Nov-13	Jun-17
				U-3	300	Feb-14	Uncertain
				U-4	300	May-14	Uncertain
6	Chhattisgarh	Lanco Amarkantak TPP-II / LAP Pvt. Ltd. BTG-DEC	Nov-09	U-3	660	Jan-13	Apr-17
				U-4	660	Mar-13	Sep-17
7	Chhattisgarh	Singhitarai TPP / Athena Chhattisgarh Power Ltd., BTG - DECL	Dec-09	U-1	600	Jun-14	Apr-17
				U-2	600	Sep-14	Sep-17
8	Chhattisgarh	Nawapara TPP / TRN Energy Pvt. Ltd./Chinese	Jan-11	U-2	300	Apr-14	Mar-17
9	Chhattisgarh	Uchpinda TPP/ RKM Powergen. Pvt. Ltd. /SG-China Western TG-Habin China	Jul-07	U-3	360	Feb-13	Mar-17
				U-4	360	Jul-13	May-17

10	Chhattisgarh	Salora TPP / Vandana Vidyut/ BTG-Cether Vessles	Sep-09	U-2	135	Sep-11	Uncertain*
11	Chhattisgarh	Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL	Jun-10	U-1	600	Aug-13	Uncertain*
12	Jharkhand	Matrishri Usha TPP Ph-I / Corporate Power Ltd., EPC-BHEL	Dec-09	U-1	270	May-12	17-18*
				U-2	270	Jun-12	18-19*
13	Jharkhand	Matrishri Usha TPP Ph-II / Corporate Power Ltd., EPC-BHEL	Mar-11	U-3	270	Feb-13	Uncertain*
				U-4	270	Mar-13	Uncertain*
14	Jharkhand	Tori TPP Ph-I / Essar Power Ltd. BTG-China	Aug-08	U-1	600	Jul-12	Uncertain*
				U-2	600	Sep-12	Uncertain*
15	Jharkhand	Tori TPP Ph-II / Essar Power Ltd.		U-3	600	Dec-15	Uncertain*
16	Maharashtra	Amravati TPP Ph-II / Ratan India Power Pvt. Ltd., BTG-BHEL	Oct-10	U-1	270	Jul-14	20-21 *
				U-2	270	Sep-14	21-22 *
				U-3	270	Nov-14	21-22 *
				U-4	270	Jan-15	21-22 *
				U-5	270	Mar-15	21-22 *
17	Maharashtra	Lanco Vidarbha TPP / LVP Pvt. Ltd., EPC-LANCO	Nov-09	U-1	660	Jan-14	Jun-17
				U-2	660	May-14	Sep-17
18	Maharashtra	Nasik TPP Ph-I / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-3	270	Jun-12	Mar-17
				U-4	270	Aug-12	Apr-17
				U-5	270	Oct-12	Jun-17
19	Maharashtra	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-1	270	Apr-13	Uncertain
				U-2	270	Jun-13	Uncertain
				U-3	270	Aug-13	Uncertain
				U-4	270	Oct-13	Uncertain
				U-5	270	Dec-13	Uncertain
20	Maharashtra	Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. / BTG-Chinese	Sep-11	U-1	300	Dec-16	18-19*
				U-2	300	Mar-17	18-19*
21	Maharashtra	Shirpur Power Pvt. Ltd.	Nov-11	U-1	150	Feb-15	Mar-17
				U-2	150	Apr-15	Apr-17
22	MP	Mahan TPP / Essar Power MP Ltd. / Chinese	Sep-08	U-2	600	Jun-15	Mar-17
23	MP	Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL	Mar-11	U-1	660	Jun-13	Uncertain
24	MP	Niwari TPP / BLA Power Ltd./ BHEL - Siemens	Apr-11	U-2	45	Apr-14	17-18*
25	Odisha	Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels	May-09	U-2	350	Dec-11	Mar-17
26	Odisha	KVK Nilanchal TPP/ KVK Nilanchal /BTG-Harbin China	Nov-09	U-1	350	Dec-11	Uncertain*
				U-2	350	Jan-12	Uncertain*
				U-3	350	Mar-12	Uncertain*
27	Odisha	Lanco Babandh TPP / LBP Ltd./ BTG-Chinese	Nov-09	U-1	660	Apr-13	Feb-18
				U-2	660	Aug-13	Aug-18
28	Odisha	Malibrahmani TPP / MPCL/ BTG- BHEL	Jun-10	U-1	525	Dec-12	17-18*
				U-2	525	Feb-13	18-19*
29	TN	Tuticorin TPP (Ind- Barath) / IBPIL /BTG-Chinese	May-10	U-1	660	May-12	18-19*
30	TN	Tuticorin TPP St-IV / SEPC/ EPC- MEIL(BTG-BHEL)	Jan-14	U-1	525	Sep-18	Sep-18
31	UP	Prayagraj (Bara) TPP / PPGENCO/SG-BHEL Alstom TG- BHEL - Siemens	Oct-09	U-3	660	Dec-14	May-17
32	WB	India Power TPP / Haldia Energy Ltd/ BTG-BHEL.	Sep-10	U-1	150	Nov-15	Mar-17
				U-2	150	Feb-16	Oct-17
				U-3	150	May-16	Feb-18
Total Private Sector					28515		
Grand Total					68766.15		

ANNEXURE REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

List of Under Construction Hydro Electric Projects (above 25 MW) in the Country - State wise					
(As on 28.02.2017)					
Sl. No.	Name of Scheme (Executing Agency)	Sector	Installed Capacity (No. x MW)	Cap. Under Execution (MW)	Latest Commissioning
Andhra Pradesh					
1	Polavaram (PPA)	State	12x80	960.00	2021-22 ##
Sub-total: Andhra Pradesh				960.00	
Arunachal Pradesh					
2	Kameng (NEEPCO)	Central	4x150	600.00	2017-18
3	Pare (NEEPCO)	Central	2x55	110.00	2017-18
4	Subansiri Lower (NHPC)	Central	8x250	2000.00	2020-21 *
5	Gongri (Dirang Energy)	Private	2x72	144.00	2020-21 *
Sub-total: Arunachal Pradesh				2854.00	
Himachal Pradesh					
6	Parbati St. II (NHPC)	Central	4x200	800.00	2018-19
7	Uhi-III (BVPCL)	State	3x33.33	100.00	2017-18
8	Sawra Kuddu (HPPCL)	State	3x37	111.00	2018-19
9	Sainj (HPPCL)	State	2x50	100.00	2016-17
10	Shongtong Karcham (HPPCL)	State	3x150	450.00	2019-20
11	Kashang -II & III (HPPCL)	State	2x65	65.00	2019-20 *
12	Bajoli Holi (GMR)	Private	3x60	180.00	2019-20
13	Sorang (HSPCL)	Private	2x50	100.00	2017-18 *
14	Tangnu Romai (TRPG)	Private	2x22	44.00	2018-19 *
15	Tidong-I (NSL Tidong)	Private	100.00	100.00	2018-19 *
16	Chanju-I (IA Energy)	Private	3x12	12.00	2016-17
Sub-total: Himachal Pradesh				2062.00	
Jammu & Kashmir					
17	Kishanganga (NHPC)	Central	3x110	330.00	2017-18
18	Parnai (JKSPDC)	State	3x12.5	37.50	2020-21
19	Lower Kalnai (JKSPDC)	State	2x24	48.00	2020-21 *
20	Ratle (RHEPPL)	Private	4x205 + 1x30	850.00	2021-22 *
Sub-total: Jammu & Kashmir				1265.50	
Kerala					
21	Pallivasal (KSEB)	State	2x30	60.00	2019-20 *
22	Thottiyar (KSEB)	State	1x30+1x10	40.00	2019-20 *
Sub-total: Kerala				100.00	
Madhya Pradesh					
23	Maheshwar (SMHPCL)	Private	10x40	400.00	2017-19 *
Sub-total: Madhya Pradesh				400.00	
Maharashtra					
24	Koyna Left Bank (WRD,MAH)	State	2x40	80.00	2019-20 *
Sub-total: Maharashtra				80.00	
Meghalaya					
25	New Umtru (MePGCL)	State	2x20	40.00	2016-18
Sub-total: Meghalaya				40.00	

	Mizoram				
26	Tuirial (NEEPCO)	Central	2x30	60.00	2017-18
	Sub-total: Mizoram			60.00	
	Punjab				
27	Shahpurkandi (PSPCL)	State	3x33+3x33+1x8	206.00	2019-20 *
	Sub-total: Punjab			206.00	
	Sikkim				
28	Bhasmey (Gati Infrastructure)	Private	3x17	51.00	2019-20
29	Dikchu (Sneha Knietic)	Private	2x48	96.00	2016-17
30	Rangit-IV (JAL Power)	Private	3x40	120.00	2019-20 *
31	Rangit-II (Sikkim Hydro)	Private	2x33	66.00	2019-20 #
32	Rongnichu (Madhya Bharat)	Private	2x48	96.00	2019-20
33	Tashiding (Shiga Energy)	Private	2x48.5	97.00	2016-17
34	Teesta St. VI (LANCO)	Private	4x125	500.00	2021-22 *
35	Panan (Himagiri)	Private	4x75	300.00	2020-21 *
	Sub-total: Sikkim			1326.00	
	Telangana				
36	Pulichintala (TSGENCO)	State	4x30	90.00	2016-18
	Sub-total: Telangana			90.00	
	Uttarakhand				
37	Lata Tapovan (NTPC)	Central	3x57	171.00	2021-22 *
38	Tapovan Vishnugad (NTPC)	Central	4x130	520.00	2019-20
39	Tehri PSS (THDC)	Central	4x250	1000.00	2019-20
40	Vishnugad Pipalkoti (THDC)	Central	4x111	444.00	2019-20
41	Vyasi (UJVNL)	State	2x60	120.00	2018-19
42	Phata Byung (LANCO)	Private	2x38	76.00	2019-20 #
43	Singoli Bhatwari (L&T)	Private	3x33	99.00	2019-20 #
	Sub-total: Uttarakhand			2430.00	
	West Bengal				
44	Rammam-III (NTPC)	Central	3x40	120.00	2020-21
	Sub-total: West Bengal			120.00	
	Total:			11993.50	
*	Subject to restart of works				
#	Subject to active start of works				
##	Subject to award of E&M works				

ANNEXURE REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

Hydro Electric Schemes Concurred by CEA and yet to be taken up for construction

(As on 27.03.2017)

CATEGORY-I: Pending due to Environment and Forest Clearance issues

(a) Environment Clearance received and Forest Clearance is awaited

Sl. No	Scheme/ Sector/ State	Agency	IC (MW)	Est Cost (Rs Crs.) PL	CEA Concurrence Date	Const period (zero date)	Remarks
1.	Miyar/ Private/ HP	MHPCL	120	1125.16*	07.02.2013	110 months (05/13)	EC accorded on 30.07.2013. FC-I accorded on 27.07.2013. Funding tie-up in process. FC-II awaited. Financial closure is in process.
2.	Rupsiyabagar Khasiyabara / Central / UK	NTPC	261	1715.15 (05/08)	16.10.08	64 months (12/09)	EC accorded on 26.03.09. FC awaited.
3.	Teesta St-IV / Central / Sikkim	NHPC	520	3594.74 (07/09)	13.05.10	74 months From date of CCEA clearance	EC accorded on 09.01.14. FC-I accorded on 26.02.13. FC-II awaited.
4.	Dibbin / Private / Ar. Pradesh	KSKDHPL	120	728.54*	04.12.09	48 months (10/10)	EC accorded on 23.7.2012. FC-I accorded on 7.2.2012 & FC-II awaited.
5.	Nyamjang Chhu / Private / Ar. Pradesh	BEL	780	6115.6*	24.03.11	62 months (01/12)	EC accorded on 19.4.12. FC-I accorded on 9.4.2012 & FC-II awaited.
6.	Tawang St-I / Central / Ar. Pradesh	NHPC	600	4824.01 (5/10)	10.10.11	78 months From date of CCEA clearance	EC accorded on 10.6.11. FC proposal forwarded by State Govt. to MOEF on 21.08.11. FC-I & II awaited.
7.	Tato-II / Private / Ar. Pradesh	THPPL	700	5616.20 *	22.5.12	72 months (01/12)	EC accorded on 27.6.11. FC is linked to Cumulative Impact Assessment Study of Siang Basin which has been carried out and accepted by MoEF.
8.	Tawang St-II / Central / Ar. Pradesh	NHPC	800	6112.3 (05/10)	22.09.11	83 months from date of CCEA clearance	EC accorded on 10.06.11. FC-I accorded on 8.01.14. FC-II awaited.
9.	Siyom/ Private / Ar. pradesh	SHPPL	1000	12100	17.12.13	78 months (01/15)	EC accorded 31.01.08. FC awaited. Forest clearance is linked to Cumulative Impact Assessment Study of Siang Basin which has been carried out and accepted by MoEF.
10.	Kalai-III/ Private / Ar. Pradesh	Kalai PPL	1200	14199.64*	27.3.15	87 months (01/15)	EC accorded 20.5.15. FC awaited
11.	Heo / Private / Ar. Pradesh	HHPPL	240	1614.35	28.07.15	50 months (09/16)	EC accorded on 31.03.15. Letter is yet to be issued. FC-I accorded 27.10.15. FC-II awaited
12.	Tato-I / Private / Ar. Pradesh	SHPPL	186	1493.55	28.10.15	50 months (01.11.16)	EC accorded on 10.11.15. FC-I accorded 27.10.15. FC-II awaited
13.	Talong Londa / Private / Ar. Pradesh	GMR	225	2172.88*	16.08.13	60 months (11/14)	EC Cleared on 07.08.15 & FC is awaited.
	Sub Total		6752				

(b) Both Environment and Forest Clearance awaited

S. No	Scheme/ Sector/ State	Agency	IC (MW)	Est Cost (Rs. Cr) PL	CEA Concurrence Date	Const. period/ zero date	Remarks
14.	Dikhu / Private / Nagaland	NMPPL	186	1994.74*	31.03.14	52 months (01/16)	FC not applicable as forest land is not involved. EC awaited.
15.	Chango Yangthang / Private / H. P.	MPCL	180	2077.294*	31.03.14	58 months (04/15)	EC & FC awaited.
16.	Chhatru / Private / H.P.	DSC	126	1386.08*	15.1.15	75 months (06/17)	EC recommended by MoEF on 24.02.15, letter to be issued after submission of Stage-I forest clearance. FC awaited.
17.	Devsari / Central / UK	SJVNL	252	1558.84 (06/10)	07.08.12/ Revalidation upto 06.08.17	60 months (01/13)	EAC meeting held on 27.12.2011 recommended for EC. Letter will be issued after FC.
18.	Matnar /State / Chhattisgarh	CSPCPL	60	313.35 (03/04)	19.08.04		EC & FC awaited
19.	Lower Siang /Private / Ar. Pradesh	JAVL	2700	19990.74*	16.02.10	114 months (01/11)	EC& FC awaited
20.	Hirong / Private / Ar. Pradesh	JAPL	500	5532.63*	10.04.13	78 months (01/14)	EC & FC awaited. Forest clearance is linked to Cumulative Impact Assessment Study of Siang Basin which has been carried out and accepted by MoEF.
21.	Etalin / Private / Ar. Pradesh	EHEPCL	3097	25296.95*	12.07.13	84 months (10/14)	EC & FC awaited.
22.	Naying / Private / Ar. Pradesh	NDSCPL	1000	9301.11	11.09.13	72 months (01/15)	EC & FC awaited. FC is linked to Cumulative Impact Assessment Study of Siang Basin.
23.	Kynshi - I/ Private Meghalaya	AKPPL	270	3154.37 09/2015	31.3.2015	60 months (09/16)	EC & FC awaited
24.	Lower Kopili/State/ Assam	APGCL	120	1115.91 1/2015	24.05.16	48 months (02/16)	EC & FC awaited
25.	Turga PSP/State/ WB	WBSPCL	1000	4234.90 12/2014	04.08.16**	63 months (10/17)	EC & FC awaited
26.	Seli/ Private/ HP	SHPCL	400	4118.59	27.10.16**	88months (06/17)	EC & FC awaited
27.	Sach Khas/ Private/ HP	L&T HHPL	267	3390.74	27.10.16**	102months (05/18)	EC & FC awaited
28.	Tagurshit/ Private/ Ar. P.	L&T	74	717.04	21.10.16**	52months (01/17)	EC & FC awaited
29.	Dugar/ Private/ HP	DHPL	449	3951.86 (comp.)	20.12.16**	96 months (06/19)	EC & FC awaited
30.	Sawalkot / State /J&K	JKSPC	185 6	22190.6 6 (02/16)	27.12.16**	96 months (06/18)	EC & FC awaited
31.	Kirthai-II / State/ J&K	JKPDC	930	5993.47	27.12.16**	60 months (06/18)	EC & FC awaited
	Sub Total		13467				

(c) Environment and Forest Clearance Subjude							
Sl. No	Scheme/ Sector/ State	Agency	IC (MW)	Est Cost (Rs. Cr) PL	CEA Concurrence Date	Const. period/ zero date	Remarks
32.	Kotlibhel St-IA/ Central / Uttrakhand	NHPC	195	1095.77 (12/05)	03.10.06	54 months From date of CCEA clearance	EC accorded on 9.05.07. FC-I accorded on 13.10.11 & FC-II awaited. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
33.	Kotlibhel St-IB / Central / Uttrakhand	NHPC	320	1806.43 (12/05)	31.10.06	54 months From date of CCEA clearance	EC accorded earlier on 14.08.07 is withdrawn on 22.11.10. MOEF declined FC-I on 7.07.11. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
34.	Kotlibhel St-II / Central / Uttrakhand	NHPC	530	2535.86 (03/06)	30.11.06	60 months From date of CCEA clearance	EC accorded on 23.08.07. FC-I declined 5.07.11. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
35.	Alaknanda / Private / Uttrakhand	GMRL	300	1415.96*	08.08.08/ Revalidati on upto 07.08.17	69 months 03/09	EC accorded on 12.3.08, FC-I accorded on 8.11.11. FC-II accorded on 09.11.2012. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
Sub Total			1345				
Total (pending for E&F clearance)			21564				
CATEGORY-II: Environment and Forest Clearance accorded and pending due to other reasons							
36.	Pakal Dul / JV / J&K	CVPP	1000	5088.88 (07/05)	03.10.06	72 months From date of CCEA clearance	EC accorded on 29.2.08 and FC-I accorded on 16.5.05 & FC-II on 15.12.15. Decision on finalization of bidding is under approval of Board of Directors.
37.	Kutehr / Private / H.P.	JSWEPL	240	1798.13*	31.8.10	60 months 10/11	EC accorded on 05.07.2011. FC-I accorded 22.06.2011 and FC-II accorded on 19.02.2013. Validity of earlier bids has expired due to delay in obtaining FC-II and acquisition of Pvt. Land. Fresh bidding are being invited.
38.	Nafra / Private / Ar. Pradesh	SNEL	120	848.22*	11.02.11	36 months 07/11	EC accorded on 19.08.13. FC-I accorded on 12.7.11 and FC-II accorded in 26.06.12. Financial closure cancelled. Project held up for want of final orders on diversion of forestland.
39.	Demwe Lower / Private / Ar. Pradesh	ADPL	1750	13144.91*	20.11.09	61 months 04/11	EC accorded on 12.02.10. FC accorded on 26.07.13. Financial closure yet to be obtained. Petition filed in NGT against the project.

40.	Athirappilly / State / Kerala	KSEB	163	385.63 (2004-05)	31.03.05	42 months 03/05	FC accorded. EC restored on 9.10.15. Fresh tenders are being invited to award the work.
41.	New Ganderwal / State / J&K	JKSPC	93	965.86 (01/14)	10.6.14	48 months (7/14)	EC accorded on 27.9.13 & FC on 02.04.2012.
42.	Kiru / JV/ J&K	CVPPL	624	4640.88 9/2014	13.06.16	54 months 8/16	EC accorded on 24.06.2016 & FC on 19.05.2016. Civil bid evaluation under process. Bid documents issued for HM works on 05.11.16.
43.	Loktak Downstream/ Central /Manipur	LDHCL	66	1352.77/ (02/15)	04.11.16**		EC & FC accorded. Tendering work to be done.
44.	Kwar/JV/ J&K	CVPP	540	4391.05 (04/16)	15.11.16**	54months (09/18)	EC recommended by EAC on 31.12.16 & FC on 08.08.14.
Subtotal (Pending for other reasons)			4596				
Total			26160				

IC: Installed Capacity
EC: Environment Clearance
FC: Forest Clearance
JVC: Joint Venture Company
(*) Completion Cost
(**) Concurrence meeting date.

ANNEXURE-VB

ANNEXURE REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 403 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING PENDING POWER PROJECTS.

List of Hydro-Electric Schemes in India under Examination in CEA

(As on 27.03.2017)

S. No.	Scheme	State	Sector	Agency	Installed Capacity (MW)
1.	Jelam Tamak	Uttarakhand	Central	THDCIL	108
2.	Bowala Nand Paryag	Uttarakhand	State	UJVNL	300
3.	Dagamara	Bihar	State	BSHPCCL	130
4.	Umngot	Meghalaya	State	MePGCL	210
5.	Subansiri Middle (Kamla)	Ar. Pradesh	Private	KHEPCL	1800
6.	Attunli	Ar. Pradesh	Private	AHEPCL	680
7.	Magochu	Ar. Pradesh	Private	SMCPCL	96
8.	Dibang	Ar. Pradesh	Central	NHPC	2880
9.	Luhri Stage-I	H.P.	Central	SJVNL	210
				Total	6414

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.404
ANSWERED ON 30.03.2017

FINANCIAL ASSISTANCE BY PFC

*404. SHRI JYOTIRADITYA M. SCINDIA:
KUMARI SUSHMITA DEV:

Will the Minister of POWER
be pleased to state:

(a) whether the Power Finance Corporation (PFC) has sanctioned financial assistance to the States and or to their State Electricity Boards to strengthen infrastructure and if so, the details thereof;

(b) the quantum of financial assistance provided by PFC to each State or State Electricity Board during the last three years and the current year; and

(c) the present status of the State Electricity Boards in strengthening infrastructure?

A N S W E R

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

(SHRI PIYUSH GOYAL)

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

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO.404 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING FINANCIAL ASSISTANCE BY PFC.

(a) & (b) : Yes, Madam. Power Finance Corporation (PFC) Ltd. has sanctioned an amount of Rs 1,61,250 Crores as financial assistance to State Power Utilities for strengthening of Infrastructure during the last three years and the current year. State-wise details are given at Annexure - I.

(c) : Statewise details of Transmission lines in Circuit Kilometers (CKM), Transformation capacity through Sub-Stations in Mega Volt Amperes (MVA), and Generation Capacity in Mega Watts (MWs) supported by PFC funding to State Sector Utilities for strengthening Infrastructure are given at Annexure-II.

ANNEXURE-I

ANNEXURE REFERRED TO IN PARTS (a) & (b) OF THE STATEMENT LAID IN
REPLY TO STARRED QUESTION NO. 404 ANSWERED IN THE LOK SABHA ON
30.03.2017 REGARDING FINANCIAL ASSISTANCE BY PFC.

State-wise details of amount sanctioned to state sector utilities
during the last 3 years and the current year

Rs. in crore

Sl. No.	Name of State	01.04.2013 to 31.12.2016 (Amount Sanctioned)
1	ANDHRA PRADESH	13,483
2	ASSAM	-
3	BIHAR	3,275
4	CHHATTISGARH	6,420
5	DELHI	1,472
6	GOA	1,432
7	HARYANA	3,757
8	HIMACHAL PRADESH	638
9	JAMMU & KASHMIR	13,215
10	KARNATAKA	1,996
11	KERALA	917
12	MADHYA PRADESH	6,264
13	MAHARASHTRA	8,216
14	MEGHALAYA	744
15	MIZORAM	24
16	ODISHA	-
17	PUDUCHERRY	64
18	PUNJAB	7,291
19	RAJASTHAN	23,168
20	SIKKIM	2,219
21	TAMILNADU	22,385
22	TELANGANA	15,522
23	TRIPURA	-
24	UTTAR PRADESH	17,662
25	UTTARAKHAND	618
26	WEST BENGAL	10,466
	Total	1,61,250

ANNEXURE-II

ANNEXURE REFERRED TO IN PART (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 404 ANSWERED IN THE LOK SABHA ON 30.03.2017 REGARDING FINANCIAL ASSISTANCE BY PFC.

State-wise details of Transmission lines (CKM), Sub-stations (MVA), and Generation capacity (MW) supported by PFC funding to state sector utilities for strengthening infrastructure during the last 3 years and the current year

Sl. No.	STATE	MVA	CKM	MW
1	ANDHRA PRADESH	18797	2336	3005
2	BIHAR	5614	20567	
3	CHHATTISGARH	-	-	2810
4	DELHI	2,160	175	-
5	GOA	-	400	-
6	HARYANA	75	20	800
7	HIMACHAL PRADESH	320	7	-
8	JAMMU & KASHMIR	-	-	1,904
9	KARNATAKA	171	1443	-
10	KERALA	-	-	114
11	MADHYA PRADESH	-	10018	1200
12	MAHARASHTRA	-	329	2700
13	MEGHALAYA	-	-	40
14	PUNJAB	120	-	-
15	RAJASTHAN	2706	10516	120
16	SIKKIM	-	24	-
17	TAMIL NADU	9463	2009	2520
18	TELANGANA	6576	1762	1880
19	UTTAR PRADESH	11,266	3,195	1,320
20	UTTARAKHAND	915	50	12
21	WEST BENGAL	-	-	660
	Total	58183	52851	19085

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4603
ANSWERED ON 30.03.2017

KOTESHWAR HYDRO ELECTRIC PROJECT

4603. SHRI S. RAJENDRAN:

Will the Minister of POWER
be pleased to state:

- (a) whether the Union Government has approved any new proposal for 400 MW Koteshwar Hydro Electric Project in Uttarakhand;
- (b) if so, the details thereof; and
- (c) the estimated cost of the project and the share of the Union Government therein?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) to (c) : The Cabinet Committee on Economic Affairs (CCEA) has approved the Revised Cost Estimate-I of 400 MW Koteshwar Hydro Electric Project at an estimated completion cost of Rs.2717.35 Cr. on 06.03.2017 including Rs.244.05 Cr., equity share of Union Government. The project has already been commissioned in March, 2012.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4621
ANSWERED ON 30.03.2017

THERMAL POWER PLANTS

†4621. SHRI HARISH CHANDRA ALIAS HARISH DWIVEDI:

Will the Minister of POWER
be pleased to state:

- (a) the number of thermal power plants in the country at present, State-wise;
- (b) the difference between the installed capacity and the generation of power of thermal power plants, State-wise;
- (c) the reasons behind lower generation of power than their capacity;
- (d) whether the Government proposes to set up some new thermal or nuclear power plants in Uttar Pradesh in view of shortage of electricity in the State in the near future; and
- (e) if so, the details thereof?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : The number of thermal plants in the country is at present 264. State-wise breakup is given at Annexure-I.

(b) & (c) : The installed capacity of a power plant if utilized fully, may render the maximum generation. This utilization of installed capacity is expressed in terms of Plant Load Factor (PLF) i.e. 100% capacity utilization means 100% PLF. The PLF depends on factors such as age of the unit, forced and planned outages, availability of required quality and quantity of fuel, availability of transmission network and receipt of schedule from beneficiary. The State-wise installed capacity, actual generation and PLF of thermal power plants is enclosed at Annexure-II.

(d) & (e) : Thermal Projects totaling to 9080 MW are presently under construction in the state of Uttar Pradesh under Central, State and Private Sectors. The details of these projects are given at Annexure-III.

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION
NO. 4621 ANSWERED IN THE LOK SABHA ON 30.03.2017.

State-wise Nos. of Thermal Power Plants

Sl. No.	State/UTs	No. of Thermal* Power Plants
1	Delhi	6
2	Haryana	6
3	Jammu & Kashmir	1
4	Punjab	6
5	Rajasthan	11
6	Uttar Pradesh	21
7	Uttarakhand	2
8	Chhattisgarh	26
9	Goa	1
10	Gujarat	26
11	Madhya Pradesh	12
12	Maharashtra	27
13	Andhra Pradesh	23
14	Karnataka	10
15	Kerala	4
16	Puducherry	1
17	Tamil Nadu	24
18	Telangana	6
19	A & N Islands	1
20	Bihar	5
21	DVC	8
22	Jharkhand	5
23	Odisha	7
24	West Bengal	14
25	Assam	5
26	Manipur	1
27	Tripura	5
	Grand Total	264

Note: * Thermal power plants includes coal based, gas based and diesel power plants.

ANNEXURE REFERRED TO IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO. 4621 ANSWERED IN THE LOK SABHA ON 30.03.2017.

Region-wise State-wise Installed Capacity, Generation and Plant Load Factor (PLF) of Thermal Power Plants for the year 2016-17 (up to Feb.'2017)

Region	State	NAME OF THE STATION	Installed Capacity as on 28.02.2017 (in MW)	Generation during 2016-17 (upto-Feb. 17)* (in MU)	PLF (%)
NR	DELHI	BADARPUR TPS	705	1703.15	30.14
		I.P.CCPPP	270	638.6	29.51
		PRAGATI CCGT-III	1500	1834.2	15.25
		PRAGATI CCPP	330.4	1711.93	64.64
		RAJGHAT TPS	135	0	0
		RITHALA CCPP	108	0	0
	HARYANA	FARIDABAD CCPP	431.59	927.33	26.8
		INDIRA GANDHI STPP	1500	4939.18	41.08
		MAHATMA GANDHI TPS	1320	2809.96	26.56
		PANIPAT TPS	920	2075.46	28.14
		RAJIV GANDHI TPS	1200	3806.83	39.58
		YAMUNA NAGAR TPS	600	3221.28	66.98
	JAMMU AND KASHMIR	PAMPORE GPS (Liq.)	175	0	0
	PUNJAB	GH TPS (LEH.MOH.)	920	2692.05	36.5
		GND TPS(BHATINDA)	440	698.58	19.81
		GOINDWAL SAHIB TPP	540	223.91	4.74
		RAJPURA TPP	1400	8621.82	76.83
		ROPAR TPS	1260	2755	27.28
		TALWANDI SABO TPP	1980	6600.65	48.1
	RAJASTHAN	ANTA CCPP	419.33	614.29	18.28
		BARSINGSAR LIGNITE	250	1307.4	65.24
		CHHABRA TPP	1000	6193.11	77.26
		DHOLPUR CCPP	330	124.84	4.72
		GIRAL TPS	250	0	0
		JALIPA KAPURDI TPP	1080	6173.23	71.31
		KALISINDH TPS	1200	5265.53	54.74
		KAWAI TPS	1320	7370.08	69.65
		KOTA TPS	1240	7068.93	71.12
		RAMGARH CCPP	273.8	1287.56	58.66
		SURATGARH TPS	1500	4308.41	35.83
	UTTAR PRADESH	ANPARA C TPS	1200	7881.54	81.94
		ANPARA TPS	2630	13453.84	69.61
		AURAIYA CCPP	663.36	472.07	8.88
		BARKHERA TPS	90	390.92	54.19
		DADRI (NCTPP)	1820	8281.85	56.77
		DADRI CCPP	829.78	2126.09	31.96
		HARDUAGANJ TPS	665	3632.74	68.15
		KHAMBARKHERA TPS	90	373.71	51.8
		KUNDARKI TPS	90	460.8	63.87
		LALITPUR TPS	1980	3212.51	35.7
		MAQSOODPUR TPS	90	415.66	57.62
		OBRA TPS	1278	3403.86	33.23
		PANKI TPS	210	755.46	44.88
		PARICHHA TPS	1140	5893.29	64.49
		PRAYAGRAJ TPP	1320	3914.63	47.99
		RIHAND STPS	3000	19884.17	82.69
		ROSA TPP Ph-I	1200	7582.77	78.83
		SINGRAULI STPS	2000	13846.27	86.37
		TANDA TPS	440	2954.06	83.75
		UNCHAHAHAR TPS	1050	6373.36	75.72
		UTRAULA TPS	90	413.54	57.32

	UTTARAKHAND	GAMA CCPP	225	423.31	36.98
		KASHIPUR CCPP	225	363.59	56.11
WR	CHHATTISGARH	AKALTARA TPS	1200	5912.37	61.46
		AVANTHA BHANDAR	600	2505.42	52.09
		BALCO TPS	600	2874.48	59.77
		BANDAKHAR TPP	300	1188.14	49.41
		BARADARHA TPS	1200	6533.39	67.92
		BHILAI TPS	500	3325.92	82.98
		CHAKABURA TPP	30	223.72	93.03
		DSPM TPS	500	3773.59	94.15
		KASAIPALLI TPP	270	1887.92	87.23
		KATGHORA TPP	35	0	0
		KORBA STPS	2600	18482.37	88.68
		KORBA-II	200	845.21	52.72
		KORBA-III	240	1291.76	67.14
		KORBA-WEST TPS	1340	8355.47	77.79
		MARWA TPS	1000	2124.75	29.54
		NAWAPARA TPP	300	620.71	45.03
		OP JINDAL TPS	1000	4031.21	50.29
		PATHADI TPP	600	4034.41	83.88
		RAIKHEDA TPP	1370	553.85	6.69
		RATIJA TPS	100	367.28	71.67
		SALORA TPP	135	0	0
		SIPAT STPS	2980	21574.37	90.32
		SVPL TPP	63	265.65	52.6
		SWASTIK KORBA TPP	25	0	0
		TAMNAR TPP	2400	4352.91	29.45
		UCHPINDA TPP	720	100.05	1.73
	GOA	GOA CCPP (Liq.)	48	0	0
	GUJARAT	AKRIMOTA LIG TPS	250	1252.01	62.48
		BARODA CCPP	160	135.09	10.53
		BHAVNAGAR CFBC TPP	250	52.15	0
		DGEN MEGA CCPP	1200	1.02	0.01
		DHUVARAN CCPP	594.72	261.54	5.49
		ESSAR CCPP	515	0	0
		GANDHAR CCPP	657.39	2070.33	39.29
		GANDHI NAGAR TPS	630	1970.13	28.92
		HAZIRA CCPP	156.1	24.32	1.94
		HAZIRA CCPP EXT	351	201.71	7.17
		KAWAS CCPP	656.2	1507.75	28.66
		KUTCH LIG. TPS	290	1351.85	58.15
		MUNDRA TPS	4620	28128.37	75.95
		MUNDRA UMTTP	4000	24546.15	76.55
		PEGUTHAN CCPP	655	271.47	5.17
		PIPAVAV CCPP	702	229.99	4.09
		SABARMATI (C STATION)	60	0	0
		SABARMATI (D-F STATIONS)	362	2529.43	87.17
		SALAYA TPP	1200	5060.77	52.61
		SIKKA REP. TPS	740	1842.1	31.05
		SUGEN CCPP	1147.5	4524.48	49.19
		SURAT LIG. TPS	500	2881.06	71.88
		UKAI TPS	1350	4867.53	44.98
		UNOSUGEN CCPP	382.5	0	0
		UTRAN CCPP	518	136.67	3.29
		WANAKBORI TPS	1470	3381.65	28.7
	MADHYA PRADESH	AMARKANTAK EXT TPS	210	1332.93	79.18
		ANUPPUR TPP	1200	3430.7	35.67
		BINA TPS	500	682.72	17.03
		MAHAN TPP	600	2333.93	48.53
		NIGRI TPP	1320	6906.61	65.27

		NIWARI TPP	45	211.77	58.71
		SANJAY GANDHI TPS	1340	6177	57.51
		SASAN UMTTP	3960	26845.47	84.57
		SATPURA TPS	1330	3282.12	30.79
		SEIONI TPP	600	303.42	5.78
		SHRI SINGHAJI TPP	1200	2378.2	24.72
		VINDHYACHAL STPS	4760	28887.51	75.71
	MAHARASHTRA	AMARAVATI TPS	1350	1777.83	16.43
		BELA TPS	270	0	0
		BHUSAWAL TPS	1420	5444.13	47.83
		BUTIBORI TPP	600	3424.84	71.21
		CHANDRAPUR(MAHARA SHTRA)	2920	13642.32	65.14
		DAHANU TPS	500	3411.11	85.11
		DHARIWAL TPP	600	1407.03	29.25
		EMCO WARORA TPS	600	3318.87	69.01
		GEPL TPP Ph-I	120	0	0
		JSW RATNAGIRI TPP	1200	6155.47	63.99
		KHAPARKHEDA TPS	1340	7171.6	66.77
		KORADI TPS	2600	5118.54	36.27
		MANGAON CCPP	388	215.44	10.91
		MAUDA TPS	1660	3436.2	39.3
		MIHAN TPS	246	0	0
		NASIK (P) TPS	540	0.86	0
		NASIK TPS	630	3070.84	60.81
		PARAS TPS	500	2751.5	68.65
		PARLI TPS	1170	1258.76	15.61
		RATNAGIRI CCPP I	740	0	0
		RATNAGIRI CCPP II	740	2440.93	41.15
		RATNAGIRI CCPP III	740	1715.29	28.92
		TIRORA TPS	3300	15472.42	58.49
		TROMBAY CCPP	180	1275.18	88.38
		TROMBAY TPS	1250	4527.67	40.71
		URAN CCPP	672	2975.5	55.24
		WARDHA WARORA TPP	540	1304.18	30.13
SR	ANDHRA PRADESH	DAMODARAM SANJEEVAIAH TPS	1600	7990.4	62.3
		Dr. N.TATA RAO TPS	1760	10642.65	75.44
		GAUTAMI CCPP	464	0	0
		GMR Energy Ltd - Kakinada	220	0	0
		GODAVARI CCPP	208	916.55	54.97
		GREL CCPP (Rajahmundry)	768	643.51	10.45
		JEGURUPADU PHASE I CCPP	235.4	836.1	44.31
		JEGURUPADU PHASE II CCPP	220	75.08	4.26
		KONASEEMA CCPP	445	0	0
		KONDAPALLI EXTN CCPP .	366	157.32	5.36
		KONDAPALLI CCPP	350	747	26.63
		KONDAPALLI ST-3 CCPP	742	1266.11	21.29
		LVS POWER DG	36.8	0	0
		PAINAMPURAM TPP	1320	8119.61	76.74
		PEDDAPURAM CCPP	220	0	0
		RAYALASEEMA TPS	1050	6052.39	71.91
		SGPL TPP	1320	997.14	59.5
		SIMHADRI	2000	12874.06	80.3
		SIMHAPURI TPS	600	1572.79	32.7
		THAMMINAPATNAM TPS	300	1214.83	50.52
		VEMAGIRI CCPP	370	305.33	10.29

		VIJESWARAN CCPP	272	637.87	29.26
		VIZAG TPP	1040	2790.52	35.93
	KARNATAKA	BELLARY DG	25.2	0	0
		BELLARY TPS	1700	6108.8	69.8
		KUDGI STPP	800	0	0
		RAICHUR TPS	1720	10353.92	75.1
		TORANGALLU TPS(SBU-I)	260	1525.17	73.18
		TORANGALLU TPS(SBU-II)	600	2317.61	48.19
		UDUPI TPP	1200	7261.87	75.49
		YELHANKA (DG)	127.92	0	0
		YERMARUS TPP	800	107.95	0
	KERALA	BRAMHAPURAM DG	63.96	5.49	0
		COCHIN CCPP (Liq.)	174	0	0
		KOZHICODE DG	96	41.43	0
		R. GANDHI CCPP (Liq.)	359.58	15.4	0.53
	PUDUCHERRY	KARAIKAL CCPP	32.5	224.95	86.35
	TAMIL NADU	B. BRIDGE D.G	200	0	0
		BASIN BRIDGE GT (Liq.)	120	10.42	1.08
		ENNORE TPS	340	191.99	5.43
		ITPCL TPP	1200	4224.78	45.91
		KARUPPUR CCPP	119.8	442.64	46.09
		KOVIKALPAL CCPP	107.88	325.05	37.59
		KUTTALAM CCPP	100	348.83	43.52
		METTUR TPS	1440	8221.55	71.23
		MUTHIARA TPP	1200	3479.3	36.17
		NEYVELI (EXT) TPS	420	3015.25	89.56
		NEYVELI TPS- I	600	3328.95	69.21
		NEYVELI TPS(Z)	250	954.56	47.63
		NEYVELI TPS-II	1470	10005.11	84.91
		NEYVELI TPS-II EXP	500	1297	32.36
		NORTH CHENNAI TPS	1830	9017.89	61.47
		P.NALLUR CCPP	330.5	189.35	7.15
		SAMALPATTI DG	105.7	0	0
		SAMAYANALLUR DG	106	12.01	0
		TUTICORIN (JV) TPP	1000	5688.81	70.97
		TUTICORIN (P) TPP	300	23.62	0.98
		TUTICORIN TPS	1050	5162.53	61.34
		VALANTARVY CCPP	52.8	350.32	82.77
		VALLUR TPP	1500	8260.35	68.7
		VALUTHUR CCPP	186.2	863.83	57.87
	TELANGANA	KAKATIYA TPS	1100	5900.66	66.92
		KOTHAGUDEM TPS	720	3544.74	61.42
		KOTHAGUDEM TPS (NEW)	1000	5879.99	73.35
		RAMAGUNDEM - B TPS	62.5	410.46	81.93
		RAMAGUNDEM STPS	2600	17754.49	85.19
		SINGARENI TPP	1200	3323.18	0
ER	ANDAMAN NICOBAR	AND. NICOBAR DG	40.05	184.97	0
	BIHAR	BARAUNI TPS	210	111.46	6.62
		BARH II	1320	6889.98	65.12
		KAHALGAON TPS	2340	14448.53	77.03
		MUZAFFARPUR TPS	415	726.88	41.19
		NABI NAGAR TPP	250	0	0
	DVC	BOKARO 'B' TPS	630	1440.34	28.52
		BOKARO TPS 'A' EXP	500	0	0
		CHANDRAPURA(DVC) TPS	760	5197.95	66
		DURGAPUR STEEL TPS	1000	6051.75	75.5
		DURGAPUR TPS	210	492.84	20.96
		KODARMA TPP	1000	3479.54	43.41
		MEJIA TPS	2340	11679.98	62.27
		RAGHUNATHPUR TPP	1200	1825.18	18.97

	JHARKHAND	JOJOBERA TPS	360	2172.22	75.27
		MAHADEV PRASAD STPP	540	3018.42	69.73
		MAITHON RB TPP	1050	6742.71	80.11
		PATRATU TPS	455	385.88	8.44
		TENUGHAT TPS	420	1297.23	38.53
	ORISSA	DERANG TPP	1200	6092.15	63.33
		IB VALLEY TPS	420	2930.4	87.04
		KAMALANGA TPS	1050	5449.18	64.74
		STERLITE TPP	2400	7453.66	38.74
		TALCHER (OLD) TPS	460	3423.99	92.86
		TALCHER STPS	3000	20813	86.55
		UTKAL TPP(IND BARATH)	350	0	0
	WEST BENGAL	BAKRESWAR TPS	1050	6383.15	75.84
		BANDEL TPS	450	1661.63	46.06
		BUDGE BUDGE TPS	750	4920.18	81.84
		CHINAKURI TPS	30	0	0
		D.P.L. TPS	660	1959.73	37.04
		FARAKKA STPS	2100	12559.16	74.61
		HALDIA GT (Liq.)	40	0	0
		HALDIA TPP	600	3693.78	76.8
		KASBA GT (Liq.)	40	0	0
		KOLAGHAT TPS	1260	5678.32	56.22
		SAGARDIGHI TPS	1600	4416.03	70.23
		SANTALDIH TPS	500	3311.97	48.57
		SOUTHERN REPL. TPS	135	381.33	35.24
		TITAGARH TPS	240	232.81	12.1
NER	ASSAM	BONGAIGAON TPP	250	1517.71	75.73
		CHANDRAPUR(ASSAM) TPS	60	0	0
		KATHALGURI CCPP	291	1442.06	61.82
		LAKWA GT	142.2	813.39	65.07
		NAMRUP CCPP	181.25	319.57	30.67
	MANIPUR	LEIMAKHONG DG	36	0	0
	TRIPURA	AGARTALA GT	135	833.04	82.68
		BARAMURA GT	58.5	173.12	36.92
		MONARCHAK CCPP	101	127.34	15.73
		ROKHIA GT	111	406.88	45.73
		TRIPURA CCPP	726.6	3758.05	64.52
Total Thermal (All India)			215124.01	902951.76	59.93
* PROVISIONAL BASED ON ACTUAL-CUM-ASSESMENT					
Note:	1. Generation includes generation from plants 25 MW & above capacity only.				
	2. Figures given above indicate gross generation of all power stations(Central, State& Private Sector) located geographically in the respective State/UT.				

ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF UNSTARRED QUESTION NO. 4621 ANSWERED IN THE LOK SABHA ON 30.03.2017.

The details of Power Projects under construction in Uttar Pradesh

Sl. No.	Sector/Project Name	Implementing Agency	Unit No.	Unit Cap (MW)	Ant. Comm. Date
Central Sector					
1	Ghatampur TPP	Joint Venture of NLC & UPRVUNL	1	660	11/2020
			2	660	05/2021
			3	660	09/2021
2	Meja TPP	MejaUrja Nigam Pvt. Ltd	1	660	06/2017
			2	660	12/2017
3	Uncharhar TPS Extn. St.IV	NTPC	1	500	06/2017
4	Tanda-II STPP	NTPC	1	660	09/2018
			2	660	03/2019
State Sector					
1	Harduaganj TPP	UPRVUNL	1	660	06/2019
2	Jawaharpur STPP	JVUNL	1	660	12/2020
			2	660	04/2021
3	Obra -C TPP	UPRVUNL	1	660	12/2020
			2	660	04/2021
Private Sector					
	Prayagraj TPP	Prayagraj Power Generation Co. Ltd.	2	660	04/2017
		Total		9080	

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4634
ANSWERED ON 30.03.2017

POWER PROJECTS IN ANDHRA PRADESH

4634. SHRI M. RAJA MOHAN REDDY:

Will the Minister of POWER
be pleased to state:

- (a) the details of the on-going and pending/sanctioned power plants/projects in the State of Andhra Pradesh; and
- (b) the status of each project?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : As per Section 7 of the Electricity Act 2003, any generating company may establish, operate and maintain a thermal generating station without obtaining a license/permission, if it complies with the technical standards relating to connectivity with the grid. Accordingly, sanction of the Government is not required for setting up of thermal power projects (TPP). However, for setting up of Hydroelectric Power Projects, the Detailed Project Reports (DPRs) are required to be submitted for concurrence of the Central Electricity Authority (CEA).

The details of on-going/under construction thermal power projects in the State of Andhra Pradesh are given at Annex.

DPRs of 03 Hydro Electric Projects with an aggregate installed capacity of 1,218 MW have been concurred/appraised by Central Electricity Authority (CEA) for Andhra Pradesh. DPR of Dummugudem hydroelectric power project of APGENCO, with generation capacity of 320 MW, has been returned by CEA to the concerned developer.

There is one hydroelectric project, namely, Indira Sagar (Polavaram) (12x80=960 MW) under construction in Andhra Pradesh, which is anticipated to be commissioned during 2021-22.

Further, the Government has accorded 'In-Principle' approval for establishing 6000 MW Nuclear power project at Kowvada in Andhra Pradesh in future.

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 4634 ANSWERED IN THE LOK SABHA ON 30.03.2017.

Details of ongoing/under construction thermal power projects in Andhra Pradesh

Sl. No.	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Capacity (MW)	Original Commissioning Schedule	Anticipated Commissioning Schedule	Fuel
<i>STATE SECTOR</i>							
1	Dr. Narla Tata Rao TPS St-V / APGENCO / BTG-BHEL	Oct-15	U-1	800	Jun-19	Jun-19	Coal
2	Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG-BHEL	Nov-15	U-1	800	Mar-19	Mar-19	Coal
3	Rayalaseema TPP St-IV / APGENCO/ BTG-BHEL	Oct-10	U-6	600	Jul-14	Mar-17	Coal
<i>PRIVATE SECTOR</i>							
1	Bhavanapadu TPP Ph-I / East Coast Energy Ltd. BTG-Chinese	Sep-09	U-1	660	Oct-13	Dec-17	Coal
			U-2	660	Mar-14	May-17	
2	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese	Dec-09	U-3	350	May-12	Dec-17	Coal
			U-4	350	Aug-12	Mar-18	
3	Krishnapatnam (UMPP)	Nov-07 (LOI)	6X 660	3960*	Feb-15	--	Coal

Note: * 1600 MW power allocated to Andhra Pradesh and Telangana.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4635
ANSWERED ON 30.03.2017

WASTAGE OF POWER

4635. SHRI ADHIR RANJAN CHOWDHURY:

Will the Minister of POWER
be pleased to state:

- (a) whether the power is getting wasted in the country, if so, the details thereof and the reasons therefor, State/UT- wise;
- (b) the steps taken by the Government to check this wastage; and
- (c) whether the Government proposes to fix any time limit to achieve the international norms laid down in this regard, if so, the details thereof?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : Due to its inherent characteristic, electricity generated in the grid is used at the same instant of time either by various consumers or by the system itself on account of technical Transmission and Distribution (T&D) losses. The technical losses are due to energy dissipated in the conductors and equipment used for transmission, transformation, sub-transmission and distribution and due to unaccounted energy. The technical losses are inherent in a system and can be reduced to a certain level. The state-wise T&D losses are given at Annexure.

(b) : Steps taken by Govt. of India to bring down T&D losses inter-alia are as under:

- I. Augmentation of distribution infrastructure under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and Integrated Power Development Scheme (IPDS).
- II. UDAY scheme for financial turnaround of Power Distribution Companies

(c) : Upgradation of distribution infrastructure is a continuous process. With use of energy efficient technologies in augmentation of such infrastructure, the T&D losses would further be reduced.

Electricity being a concurrent subject, the loss reduction trajectory for T&D losses is determined by respective State Electricity Regulatory Commission.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 4635 ANSWERED IN THE LOK SABHA ON 30.03.2017.

PERCENTAGE TRANSFORMATION, TRANSMISSION AND DISTRIBUTION LOSSES (INCLUDING ENERGY UNACCOUNTED FOR)

STATES/UTs	2014-15	2015-16*
HARYANA	34.05	31.61
HIMACHAL PRADESH	20.81	18.75
JAMMU & KASHMIR	53.06	50.06
PUNJAB	18.45	18.55
RAJASTHAN	27.51	29.13
UTTAR PRADESH	27.19	24.51
UTTARAKHAND	24.53	25.6
CHANDIGARH	19.1	18.74
DELHI	21.49	19.58
GUJARAT	19.28	19.1
MADHYA PRADESH	32.26	28.61
CHHATTISGARH	29.21	30.78
MAHARASHTRA	20.39	19.89
D & N HAVELI	10.33	10.06
GOA	14.97	18.04
DAMAN & DIU	29.63	31.85
ANDHRA PRADESH	17.94	15.24
TELANGANA	15.72	16.1
KARNATAKA	11.5	10.21
KERALA	15.4	10.78
TAMILNADU	11.07	10.13
LAKSHADWEEP	3.63	9.81
PUDUCHERRY	14.9	14.01
BIHAR	46.27	49.29
JHARKHAND	17.2	16.99
ODISHA	41.96	39.1
SIKKIM	24.97	26.52
WEST BENGAL	24.66	22.16
A & N ISLANDS	20.5	14.47
ASSAM	27.57	25.2
MANIPUR	40.95	44.45
MEGHALAYA	33.34	32.32
NAGALAND	26.51	29.89
TRIPURA	35.93	30.56
ARUNACHAL PRADESH	46.24	50.6
MIZORAM	42.05	36.11
All India	22.77	21.81

*Provisional

Source: General Review, CEA

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4642
ANSWERED ON 30.03.2017

UJALA SCHEME

†4642. SHRI RATTAN LAL KATARIA:

Will the Minister of POWER
be pleased to state:

- (a) whether the Government has set target to change more than 77 crore traditional/incandescent bulbs by the year 2019 under UJALA scheme;
- (b) if so, the details thereof;
- (c) the number of LED bulbs likely to be distributed by 31st December, 2017, State/UT-wise;
- (d) the details of savings in rupees likely to be made in electricity bills with implementation of the said scheme; and
- (e) the details of per day savings in rupees being made under UJALA scheme?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b): Yes, Madam. The National LED programme, called Unnat Jyoti by Affordable LEDs for All (UJALA) has been launched on 5th January 2015, which is being implemented by Energy Efficiency Services Limited (EESL), a joint venture company of four Public Sector Undertakings of Ministry of Power to provide LED bulbs to domestic consumers with a target to replace 77 crore incandescent bulbs with LED bulbs by March, 2019. In addition to EESL, several other suppliers are also engaged in the distribution of LED bulbs.

(c) : The State/UT-wise of LED bulbs likely to be distributed by EESL by 31st December, 2017 is at Annex.

(d) to (e): The distribution of 77 crore LED bulbs will result in estimated cost savings of Rs.40,000 crore per year. As on 22.03.2017, over 22.01 crore LED bulbs have been distributed by EESL under UJALA scheme, resulting in estimated cost savings of Rs.31.3 crore per day.

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 4642 ANSWERED IN THE LOK SABHA ON 30.03.2017.

LED bulbs likely to be distributed by EESL under UJALA Scheme State/UT-wise by 31st December 2017

Sl. No.	State /UTs	No. of LED bulbs (in Lakhs)
1	Jammu & Kashmir	129
2	Himachal Pradesh	113
3	Uttarakhand	47
4	Punjab	61
5	Haryana	139
6	Delhi	134
7	Rajasthan	182
8	Madhya Pradesh	180
9	Gujarat	415
10	Daman & Dui	2
11	Dadra & Nagar Haveli	2
12	Maharashtra	289
13	Telangana	78
14	Goa	8
15	Karnataka	215
16	Lakshadweep	1
17	Kerala	100
18	Uttar Pradesh	240
19	Bihar	195
20	West Bengal	120
21	Sikkim	8
22	Meghalaya	8
23	Assam	14
24	Nagaland	8
25	Tripura	9
26	Jharkhand	105
27	Mizoram	9
28	Chhattisgarh	130
29	Odisha	175
30	Andhra Pradesh	241
31	Andaman & Nicobar	4
32	Puducherry	6
33	Tamil Nadu	1
	Total	3,365

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4646
ANSWERED ON 30.03.2017

NATIONAL POWER TRAINING INSTITUTE

4646. SHRI R.P. MARUTHARAJAA:

Will the Minister of POWER
be pleased to state:

- (a) whether the Government proposes to start more National Power Training Institutes in the country including Tamil Nadu;
- (b) if so, the details thereof;
- (c) the Government has allotted any funds 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,
COAL, NEW & RENEWABLE ENERGY AND MINES

(SHRI PIYUSH GOYAL)

(a) to (d) : The Government has sanctioned setting up of two new National Power Training Institutes (NPTIs) at Alappuzha (Kerala) and Shivpuri (Madhya Pradesh) at an estimated cost of Rs.5635 Lakhs and Rs.6423 Lakhs respectively. NPTI has an Institute at Neyveli in Tamil Nadu. There is no proposal to set up more NPTIs in Tamil Nadu.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4647
ANSWERED ON 30.03.2017

ENERGY EFFICIENT PRODUCTS

4647. SHRIMATI V. SATHYA BAMA:

Will the Minister of POWER
be pleased to state:

- (a) whether country's market potential for energy efficient products has risen more than four times to Rs. 1.6 lakh crore and if so, the details thereof;
- (b) whether all projects offer market potential for utility demand side management in the country; and
- (c) if so, the details thereof?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) to (c): Ministry of Power has not conducted any such study related to market potential for energy efficiency products. However, an independent study conducted by World Bank in year 2016 on 'Utility Scale DSM Opportunities and Business Models in India' has assessed the Utility DSM market potential at Rs. 1.6 lakh crore, with sector-wise break-up as under:

Sector	Investment potential (Rs. crores)
Industry	12,100
Residential	91,937
Commercial Buildings	1,139
Municipal Infrastructure	25,200
Agriculture	30,000
Total	160,376

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4667
ANSWERED ON 30.03.2017

ELECTRIFICATION OF VILLAGES

4667. SHRI S.P. MUDDAHANUME GOWDA:

Will the Minister of POWER
be pleased to state:

- (a) whether more than 18,000 villages do not have basic facility of electricity and 25 per cent of the people are still deprived of electricity for which the Government is working;
- (b) if so, the details thereof;
- (c) whether many State Governments have expressed their desire to join Ujwal Discom Assurance Yojana (UDAY); and
- (d) if so, the details thereof?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b): As informed by the States, there were 18,452 un-electrified census villages in the country as on 01.04.2015. Of these, 12,364 villages have been electrified as on 28.02.2017. All the un-electrified villages are targeted to be electrified by 1st May, 2018.

As per Census 2011, out of 1678 lakh rural households in the country, 750 lakh rural households were un-electrified. Under Rural Electrification component of Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), 94.76 lakh BPL Households have been electrified since FY 2011-12.

(c) & (d): So far twenty five (25) States and one (01) Union Territory namely Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Punjab, Rajasthan, Sikkim, Tamil Nadu, Telangana, Tripura, Uttar Pradesh, Uttarakhand and Union Territory of Puducherry have signed the Memorandum of Understanding (MoU) with the Ministry of Power (MoP) under Ujwal Discom Assurance Yojana (UDAY).

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4670
ANSWERED ON 30.03.2017

SHARE OF POWER

4670. SHRIMATI SANTOSH AHLAWAT:

Will the Minister of POWER
be pleased to state:

- (a) whether the Government proposes to refer to the Hon'ble Supreme Court for its opinion regarding finalization of the claim of Haryana and Rajasthan for share of Power from Hydel Projects of Anandpur Sahib, Shahpur Kandi, Mukerian, UBDC Stage II, in DAM and SYL Projects;
- (b) if so, the details thereof; and
- (c) if not, the reasons therefor?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) to (c) : An agreement was reached between the States of Punjab, Haryana, Rajasthan and Government of India on 10.05.1984 wherein it was agreed that in view of the claims raised by Haryana and Rajasthan for sharing of power in Anandpur Sahib Hydel project, Mukerian Hydel Project, Thein Dam Project, Upper Bari Doab Canal (UBDC) Stage -II and Shahpur Kandi Hydel Scheme, the Government of India shall refer the matter to the Hon'ble Supreme Court for its opinion. The opinion of the Hon'ble Supreme Court was to be sought on whether the States of Rajasthan and Haryana are entitled to a share in the power generated from these Hydel schemes and in case they are, what would be the share of each State.

However, subsequently in the discussion held between the Chief Ministers of Punjab, Haryana and Rajasthan on 29-30 July, 1992 and 6th August, 1992, a consensus was reached not to refer the matter to the Hon'ble Supreme court. It was also decided that these States would come to a reasonable agreement through mutual consultations. In order to resolve the issue amicably, a number of formal discussions have taken place. However, no consensus has emerged so far on the divergent views of the stakeholder States. Presently, the matter is sub-judice in the Hon'ble Supreme Court of India in original Suit No. 3 of 2009.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4675
ANSWERED ON 30.03.2017

EFFICIENCY OF COAL BASED POWER PLANTS

4675. DR. SHASHI THAROOR:

Will the Minister of POWER
be pleased to state:

- (a) whether the Government is aware that studies done by the Centre for Science and Environment have shown that the efficiency of India's coal based power plants is one of the lowest among major coal-based thermal power generating countries;
- (b) if so, the details thereof;
- (c) whether the Government proposes to take any measures to improve the efficiency of these plants while at the same time improving the air quality in the vicinity of these plants;
- (d) if so, the details thereof including budgetary allocations for the same; and
- (e) if not, the reasons therefor?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : The efficiency of Thermal Power Plants in the country is comparatively lower than other countries due to inferior quality of coal and higher ambient air temperature and higher cooling water temperature in India.

(c) to (e) : The steps taken by Government to improve the efficiency of coal based thermal power plants & improve the air quality in the vicinity of these plants are as under:

- i) Supercritical technology has already been adopted for thermal power generation. The design efficiency of Supercritical units is about 5% higher than typical 500 MW subcritical units and these (supercritical) units are likely to have correspondingly lower fuel consumption and CO₂ emissions in ambient air. A capacity addition of 39,710 MW based on supercritical technology has already been achieved and 48,060 MW of supercritical is in the pipeline.

- (ii) All Ultra Mega Power Projects (UMPPs) are required to use supercritical technology.
- (iii) Coal based capacity addition during 13th Plan shall be through super-critical units.
- (iv) Indigenous research is being pursued for development of Advanced Ultra Supercritical Technology (A-USC) with targeted efficiency improvement of about 10% over supercritical unit. Indira Gandhi Centre for Atomic Research (IGCAR), NTPC and BHEL have signed an MoU in August 2010 for development of 800 MW A-USC indigenous demonstration plant with main steam pressure of 310 kg/cm² and temperature of 710/ 720 deg C.
- (v) A capacity of about 7751.94 MW of old and inefficient unit has already been retired till date.
- (vi) To facilitate State Utilities/IPPs to replace old inefficient coal based thermal units with supercritical units, Ministry of Coal, Government of India has formulated a policy of automatic transfer of LOA/Coal linkage (granted to old plants) to new (proposed) super-critical units.
- (vii) Perform Achieve and Trade (PAT) Scheme under National Mission on Enhanced Energy Efficiency is under implementation by BEE (Bureau of Energy Efficiency). In PAT cycle-II, individual target for improving efficiency has been assigned to 154 thermal power stations.
- (viii) High efficiency Electrostatics Precipitator (ESP) are installed to capture Particulate Matters (Fly ash) from Flue gases.
- (ix) Low NO_x burners are installed for reducing NO_x emission from flue gases.
- (x) SO₂ emission control is achieved through dispersion of flue gases through tall stacks (275 metres) to reduce the concentration of polluting gases at ground level.

Funds for measures taken to improve efficiency and air quality are arranged by the Power Developers.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4748
ANSWERED ON 30.03.2017

AMENDMENT IN ACT

†4748. SHRI RAMDAS C. TADAS:
SHRI MANSUKHBHAI DHANJIBHAI VASAVA:

Will the Minister of POWER
be pleased to state:

- (a) the role of the Union Government in ensuring compliance of rules by State Governments and their entities including private Discoms under the Electricity Act, 2003;
- (b) whether the Union Government played its role/utilized its power for ensuring compliance of rules during the last three years;
- (c) if so, the details thereof; and
- (d) if not, the reasons therefor?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) to (d) : Electricity being a concurrent subject, the provisions of the Electricity Act, 2003 are applicable to the Central and State Governments as well as to the different statutory bodies and entities defined under the Act. Under the provisions of Act, non-compliance of the rules and regulations made by State Governments and their entities including Private Discoms falls under the jurisdiction of the respective State Electricity Regulatory Commission (SERC).

GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.4768
ANSWERED ON 30.03.2017

POWER TARIFF

4768. SHRI PRATHAP SIMHA:
KUMARI SHOBHA KARANDLAJE:

Will the Minister of POWER
be pleased to state:

- (a) whether the Government has set up a Committee to look into the issues relating to restructuring of tariff so as to reduce the burden on industrial/manufacturing units, by making domestic and commercial consumers of electricity pay more;
- (b) if so, the composition and mandate of the Committee and the recommendations made by it;
- (c) the justifications for seeking reduction in tariff applicable to industrial/manufacturing units;
- (d) whether the provision in the Electricity Act, 2003 requires bulk electricity consumers to pay an Open Access Surcharge (OAC) to SEBs, whom they want to leave, rendering switch to new supplier uneconomical and if so, the details thereof;
- (e) the measures taken by the Government for a viable and sustainable solution to the problem of high tariff currently charged from manufacturing units within the framework of fundamental causes; and
- (f) whether the Government proposes to urge the States to step giving subsidized/free power to farmers/ households and curb theft and if so, the details thereof?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) to (c) : No, Madam. However, the Government of India, vide order dated 30th August, 2016 and 7th September, 2016, has set up a Committee headed by Special Secretary, Ministry of Power to suggest measures to rationalize tariff structure, conduct comparative analysis of tariff structure prevailing in different States and also to suggest a roadmap for reduction of the tariff vis-à-vis recovery of all prudent cost incurred by Discoms.

.....2.

(d) : Section 42 of the Electricity Act, 2003 inter-alia provides that open access shall be allowed on payment of a surcharge and additional surcharge, apart from the charges for wheeling as may be determined by the State Electricity Regulatory Commission (SERC) to compensate the utility for existing cross-subsidies and stranded assets being the provider of last resort.

(e) & (f) : The tariff of different categories of consumers, including manufacturing units in the States is determined by the respective State Electricity Regulatory Commissions (SERCs)/Joint Electricity Regulatory Commissions (JERCs), based on the principles enunciated under the Electricity Act, 2003 and policies framed thereunder. The State Governments can give subsidy to any category of consumers to the extent they consider appropriate as per the provisions of Section 65 of the said Act, as well as Clause 8.3 of the Tariff Policy. There is no provision regarding direct control of the electricity tariff by the Central Government.

However, through appropriate policy framework and programmes, the Government is promoting efficiency in generation, transmission and distribution business as also supporting strengthening of the distribution and transmission infrastructure, with a view to reduce the Aggregate Technical and Commercial (AT&C) losses. These measures, alongwith the Government's emphasis on discovery of tariff through competitive bidding, contribute towards lowering power purchase cost of Discoms which ultimately result in lower tariff.

As regards, curbing of power theft, the Electricity Act, 2003 provides a legal framework for making theft of electricity a cognizable offence. For checking theft of electricity, the Electricity Act, 2003 has incorporated specific provisions for detection of theft, speedy trial of theft related offences and also for the recovery of the charges of electricity stolen.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4769
ANSWERED ON 30.03.2017

HYDRO POWER PROJECT IN ASSAM-ARUNACHAL PRADESH

4769. SHRI RAMESWAR TELI:

Will the Minister of POWER
be pleased to state:

- (a) the details of hydro power projects in the country and the quantum of power produced by these projects during the last three years, State-wise;
- (b) the details of the hydro power projects including lower subansiri hydro power project being constructed by National Hydro Electric Power Corporation (NHPC), along the Assam- Arunachal Pradesh border;
- (c) whether the construction of the lower subansiri hydro power project has been delayed resulting in huge cost overruns; and
- (d) if so, the details thereof and the steps taken for timely completion of the project?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : Presently, one hundred eighty one (181) hydro power projects (above 25 MW capacity) with an aggregate installed capacity of 44413.42 MW are in operation in the Country. The state-wise details of these Hydro Electric Stations along with power being generated by each of the hydel power projects during the last three years is given at Annexure-I.

(b) to (d) : Presently, only one project is being constructed by NHPC Ltd., along the Assam-Arunachal Pradesh border, which is Lower Subansiri HEP (2000 MW). CCEA approval for implementation of the project was accorded on 9.9.2003 at sanctioned cost of Rs. 6285.33 crore (at Dec.,2002 PL) with completion period of seven years. Construction of the project started in January, 2005 and about 55% of works have been completed. Presently, works of the project are stalled due to agitation by various groups of Assam since December, 2011. There is also a stay by National Green Tribunal (NGT), Kolkata vide order dated 11.12.2015 on construction activities. The anticipated cost of the Project is now Rs. 17435.15 crore (at Feb. 2016 PL) resulting in current cost overrun of Rs. 11149.82 crore. The steps taken for timely completion of the Project is given at Annexure-II.

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 4769 ANSWERED IN THE LOK SABHA ON 30.03.2017.

STATION WISE GENERATION OF H.E.STATIONS (I. C. ABOVE 25 MW) IN THE COUNTRY FROM THE YEAR 2013-14 TO 2016-17(UP TO 28.02.2017)

REGION	INSTALLED CAPACITY AS ON 28.02.2017	2013-14	2014-15	2015-16	2016-17 (Upto 28.02.2017)*
		Actual	Actual	Actual	Actual
	(MW)	(MU)	(MU)	(MU)	(MU)
NORTHERN REGION					
Himachal Pradesh					
Bhakra L&R	1325.00	6210.29	5268.15	5892.62	4888.52
Dehar	990.00	3158.68	3151.06	3339.14	3041.97
Pong	396.00	1767.03	1327.36	1734.76	1273.94
Kashang I	65.00				
Kashang II & III	65.00				51.41
Sainj					
Bassi	66.00	228.65	295.01	315.90	280.69
Giri Bata	60.00	230.22	199.82	189.06	134.24
Larji	126.00	598.74	609.69	656.85	584.34
Sanjay	120.00	536.48	545.09	0.00	172.52
Allain Duhagan	192.00	700.24	677.78	724.96	664.74
Malana - II	100.00	339.87	250.41	354.42	358.96
Baspa-II	300.00	1345.49	1252.58	1304.50	1317.77
Karcham Wangtoo	1000.00	4653.26	4240.43	4726.32	4258.92
Chanju I	24.00				3.60
Budhil	70.00	221.17	235.83	287.85	256.46
Shanan	110.00	355.89	507.82	532.57	446.54
Malana	86.00	318.34	328.43	341.94	345.06
Baira Siul	180.00	638.04	796.67	745.59	601.58
Chamera-I	540.00	2340.87	2551.80	2623.70	2079.70
Chamera-II	300.00	1396.10	1498.71	1523.98	1383.51
Chamera-III	231.00	937.86	1020.78	1043.62	917.09
Parbati III	520.00	4.78	660.78	643.00	667.42
Nathpa Jhakri	1500.00	7190.53	6837.50	7313.79	6842.88
Rampur	412.02	0.02	1317.57	1983.41	1905.14
Kol Dam	800.00		0.25	2308.60	3142.50
Total HP	9578.02	33172.55	33573.53	38586.58	35619.50
JAMMU & KASHMIR					
Baglihar	450.00	2799.80	2939.91	3000.14	1953.00
Baglihar	450.00			55.60	1749.33
Lower Jhelum	105.00	516.50	600.87	666.21	417.39
Upper Sindh II	105.00	214.89	303.32	258.35	345.17
Chutak	44.00	34.18	35.50	36.91	40.34
Dulhasti	390.00	2150.09	2176.43	2361.48	2179.58
Nimoo Bazgo	45.00	50.62	75.55	90.51	84.36
Salal	690.00	3234.67	3491.58	3591.36	3225.78
Sewa-II	120.00	501.52	597.06	597.07	397.02
Uri	480.00	2520.76	3076.62	3282.97	2464.24
Uri-II	240.00	403.76	1188.18	1195.55	1295.36
Total J&K	3119.00	12426.79	14485.02	15136.15	14151.57
PUNJAB					
A.P.Sahib I&II	134.00	735.01	617.50	668.54	633.76
Mukerian I-IV	207.00	1246.73	1050.95	1169.46	994.20
Ranjit Sagar	600.00	1575.89	1862.80	1957.27	1244.93
Ganguwal	77.65	505.07	422.89	421.93	380.05
Kotla	77.65	483.94	430.32	430.45	391.78
Total Punjab	1096.30	4546.64	4384.46	4647.652	3644.72

RAJASTHAN					
Jawahar Sagar	99.00	322.43	296.17	349.34	278.62
Mahi Bajaj I&II	140.00	227.10	185.84	166.35	186.59
R.P. Sagar	172.00	510.45	381.32	518.10	405.3
Total Rajasthan	411.00	1059.98	863.33	1033.796	870.51
UTTAR PRADESH					
Khara	72.00	418.62	363.92	321.06	261.43
Matatilla	30.60	115.98	80.54	79.01	116.45
Obra	99.00	203.15	229.00	160.09	203.68
Rihand	300.00	503.98	574.23	374.92	519.75
Total UP	501.60	1241.73	1247.69	935.08	1101.31
UTTARAKHAND					
Chibro (Y.St.II)	240.00	949.80	872.10	813.78	682.31
Chilla	144.00	784.61	800.49	753.67	710.12
Dhakrani (Y.St.I)	33.75	170.62	149.41	136.86	117.02
Dhalipur (Y.St.I)	51.00	255.16	231.14	205.06	175.55
Khatima	41.40	114.79	45.18	120.45	168.23
Khodri (Y.St.II)	120.00	435.94	406.99	375.94	317.81
Kulhal (Y.St.IV)	30.00	178.52	156.16	138.98	118.36
Maneri Bhali-I	90.00	382.18	379.14	486.53	328.18
Maneri Bhali-II	304.00	833.13	888.92	1229.06	1208.84
Ram Ganga	198.00	233.59	269.83	502.53	154.39
Shrinagar	330.00	0	0	901.37	1248.21
Vishnu Prayag	400.00	437.90	1815.94	1210.65	1990.01
Dhauliganga	280.00	282.31	743.49	1089.63	925.78
Tanakpur	94.20	384.18	446.71	452.36	414.03
Koteshwar	400.00	1521.85	1210.17	1248.05	1133.30
Tehri	1000.00	4060.43	3023.55	3101.00	2924.51
Total UTTARAKHAND	3756.35	11025.01	11439.22	12765.92	12616.65
Total N. REGION	18462.27	63472.70	65993.25	73105.18	68004.26
WESTERN REGION					
CHHATISGARH					
CSPGC					
Hasdeo Bango	120.00	251.51	258.18	323.30	151.52
Total CSPGC	120.00	251.51	258.18	323.30	151.52
GUJARAT					
Kadana PSS	240.00	411.08	211.53	289.91	333.51
Ukai	300.00	812.90	690.63	491.52	334.74
Sardar Sarovar CHPH	250.00	660.52	611.67	704.55	803.23
Sardar Sarovar RBPH	1200.00	5221.79	2297.75	1465.88	2311.02
Total Gujarat	1990.00	7106.29	3811.58	2951.85	3782.50
MADHYA PRADESH					
Bansagar Tons-I	315.00	1658.76	1081.36	574.48	1138.38
Bansagar Tons-II	30.00	124.40	86.09	107.48	99.3
Bansagar Tons-III	60.00	136.53	121.05	39.88	49.13
Bargi	90.00	547.41	498.46	328.10	421.28
Gandhi Sagar	115.00	405.59	272.15	383.05	291.3
Madhikhera	60.00	147.62	97.16	92.16	140.83
Rajghat	45.00	56.43	82.53	36.94	62.21
Indira Sagar	1000.00	4078.68	2541.90	1974.21	3156.98
Omkareshwar	520.00	1633.22	1128.93	955.01	1350.99
Total M.P.	2235.00	8788.64	5909.63	4491.31	6710.40
MAHARASHTRA					
Bhira Tail Race	80.00	95.35	91.25	73.87	95.25
Ghatghar PSS	250.00	394.06	320.25	301.86	363.82
Koyna DPH	36.00	163.24	93.41	136.47	133.48
Koyna St.I& II	600.00	1264.32	1163.44	1239.60	1176.6
Koyna St.III	320.00	705.80	588.21	534.04	563.92
Koyna IV	1000.00	1694.89	1206.74	1066.70	1127.85
Tillari	60.00	116.68	113.86	44.16	98.64
Vaitarna	60.00	132.97	203.82	122.62	116.13

Pench	160.00	427.29	390.13	378.51	348.17
Bhandardhara - II	34.00	90.80	65.40	82.55	31.80
Bhira	150.00	969.46	837.07	640.34	885.30
Bhira PSS	150.00				0
Bhivpuri	75.00	304.53	300.68	196.92	173.42
Khopoli	72.00	322.93	303.75	261.23	278.46
Total Maharashtra	3047.00	6682.32	5678.01	5078.88	5392.84
Total Western	7392.00	22828.76	15657.40	12845.34	16037.26
SOUTHERN REGION					
ANDHRA PRADESH					
Lower Sileru	460.00	1268.48	1287.11	1233.14	721.08
N.J.Sagar TPD	50.00		0.00	0.00	1.54
N.J.Sagar RBC	90.00	251.58	187.29	0.00	4.15
Srisaillam RB	770.00	1314.85	1152.73	206.05	624.78
Upper sileru I&II	240.00	460.14	522.47	465.27	268.51
Total APGENCO	1610.00	3295.05	3149.60	1904.47	1620.06
TELANGANA					
Lower Jurala	240.00	-	0.00	8.98	176.34
N.J.Sagar PSS	815.60	1315.16	1032.63	88.15	175.04
N.J.Sagar LBC	60.00	98.23	42.07	0.00	0.00
Pochampad	27.00	85.29	12.87	0.00	66.11
Priyadarshni	234.00	270.79	224.65	30.42	211.99
Pulinchinthala	30.00				13.00
Srisaillam LB	900.00	1464.21	1801.59	154.78	574.37
Total TSGENCO	2306.60	3233.68	3113.81	282.33	1216.85
KARNATAKA					
Amatti Dam	290.00	507.35	483.01	145.16	403.72
Bhadra	39.20	63.76	50.59	40.08	24.29
Gerusoppa	240.00	619.18	556.90	303.19	227.84
Ghatprabha	32.00	82.16	66.04	31.93	48.65
Jog	139.20	267.39	346.89	318.36	265.74
Kadra	150.00	366.91	405.14	220.48	152.37
Kalinadi	855.00	2643.33	3255.42	1948.48	1057.32
Supa DPH	100.00	469.68	453.32	324.94	183.83
Kodasali	120.00	327.94	385.76	203.26	124.05
Lingnamakki	55.00	267.94	256.27	118.94	85.46
Munirabad	28.00	102.39	107.20	61.83	32.04
Sharavathy	1035.00	5593.47	5255.46	2664.50	2186.15
Shivasamudram	42.00	219.07	221.93	216.46	144.55
T.B.Dam & Hampi	72.00	175.78	184.65	129.36	81.31
Varahi	460.00	1320.47	1131.72	752.39	660.98
Total Karnataka	3657.40	13026.82	13160.30	7479.37	5678.30
KERALA					
Idamalayar	75.00	386.08	372.66	273.00	146.54
Idukki	780.00	2738.78	2494.20	2372.40	1227.00
Kakkad	50.00	247.66	192.94	184.22	118.16
Kuttiadi	125.00	849.81	740.47	578.05	429.12
Kuttiadi Addn. Extn.	100.00			0	0.00
Lower Periyar	180.00	601.01	577.15	510.72	298.29
Neriamangalam	70.00	365.77	343.30	350.50	189.95
Pallivasal	37.50	215.55	211.66	218.69	149.62
Panniar	30.00	170.33	154.90	174.30	61.77
Poringalkuthu	32.00	122.79	151.02	159.70	86.47
Sabarigiri	300.00	1635.21	1224.73	1171.17	705.24
Sengulam	48.00	141.86	151.37	160.99	105.39
Sholayar	54.00	233.33	238.25	210.01	144.02
Total Kerala	1881.50	7708.18	6852.65	6363.75	3661.57

TAMIL NADU					
Aliyar	60.00	148.31	158.35	152.96	57.32
Bhawani Kattalai Barrage-III	30.00	25.04	0.00	5.68	17.47
Bhawani Kattalai Barrage-II	30.00	86.12	137.56	7.03	19.66
Bhawani Kattalai Barrage-I	30.00	41.30	67.90	156.51	20.54
Kadamparai PSS	400.00	504.52	502.50	412.63	256.44
Kodayar I&II	100.00	158.83	202.02	278.58	153.12
Kundah I-V	555.00	1528.25	1550.67	1372.44	749.35
Lower Mettur I-IV	120.00	279.65	266.71	223.36	92.27
Mettur Dam & Tunnel	250.00	461.37	442.62	341.43	125
Moyar	36.00	148.43	144.73	103.64	57.9
Papanasam	32.00	137.70	118.23	116.57	63.66
Parson's Valley	30.00	42.71	34.83	25.63	17.5
Periyar	161.00	462.95	527.56	504.79	93.91
Pykara	59.20	64.69	39.00	56.89	12.74
Pykara Ultimate	150.00	399.34	367.03	280.56	179.73
Sarkarpathy	30.00	137.99	134.24	79.28	63.29
Sholayar I&II	95.00	267.09	261.58	263.79	228.11
Suruliyar	35.00	100.45	103.43	92.50	38.95
Total TANGEDCO	2203.20	4994.74	5058.96	4474.27	2246.96
Total Southern	11658.70	32258.47	31335.32	20504.19	14423.74
EASTERN REGION					
JHARKHAND					
Subernarekha I&II	130.00	109.53	33.73	51.24	30.13
Panchet	80.00	127.70	129.26	68.97	129.34
Total Jharkhand	210.00	237.23	162.99	120.21	159.47
ODISHA					
Balimela	510.00	1655.82	1339.23	622.01	848.40
Hirakud I	275.50	1019.48	887.10	683.86	671.13
Hirakud II	72.00				
Machkund	114.75	572.59	519.79	477.47	621.34
Rengali	250.00	910.58	742.46	599.46	533.36
Upper Indravati	600.00	2517.07	2696.43	1760.44	1348.37
Upper Kolab	320.00	871.91	734.48	767.06	537.50
Total OHPC	2142.25	7547.45	6919.47	4910.31	4560.10
SIKKIM					
Jorethang Loop	96.00		0.00	75.06	395.87
Chuzachen	99.00	291.42	430.86	421.43	485.20
Teesta III	1200.00		0.00		113.25
Rangit	60.00	354.50	327.68	345.27	333.31
Teesta-V	510.00	2299.46	2586.75	2710.17	2652.84
Total Sikkim	1965.00	2945.38	3345.29	3551.94	3980.47
WEST BENGAL					
Jaldhaka - I	36.00	158.51	109.42	173.37	196.07
Purulia PSS	900.00	784.72	1408.85	1064.56	1017.89
Ramman II	50.00	265.38	237.35	253.77	239.56
Teesta Low Dam-III	132.00	186.95	394.21	514.87	536.86
Teesta Low Dam-IV	160.00	0.00	0.00	18.76	580.98
Maithon (WB)	63.20	97.93	138.04	107.54	116.72
Total WB	1341.20	1493.49	2287.87	2132.88	2688.08
Total Eastern	5658.45	12223.55	12715.61	10715.34	11388.12
NORTH EASTERN REGION					
ASSAM					
Karbi Langpi	100.00	422.14	402.43	408.88	384.42
Khandong	75.00	179.41	87.86	175.05	192.77
Kopili	200.00	793.81	629.46	781.80	1039.41
Total Assam	375.00	1395.36	1119.75	1365.73	1616.60

MEGHALAYA					
Kyrdemkulai	60.00	133.57	113.10	117.51	62.93
Myntdu	126.00	414.41	408.98	444.35	378.64
Umium St.I	36.00	79.21	90.46	114.08	93.43
Umium St. IV	60.00	175.01	162.75	184.99	162.50
Total MePGCL	282.00	802.20	775.29	860.94	697.50
NAGALAND					
Doyang	75.00	245.71	165.15	163.14	254.55
Total Nagaland	75.00	245.71	165.15	163.14	254.55
ARUNACHAL PRADESH					
Ranganadi	405.00	980.94	1109.48	1280.25	1200.35
Total Arunachal Pradesh	405.00	980.94	1109.48	1280.25	1200.35
Manipur					
Loktak	105.00	639.84	372.44	536.64	707.70
Total N.Eastern	1242.00	4064.04	3542.11	4206.70	4476.70
TOTAL ALL INDIA	44413.42	134847.52	129243.68	121376.75	114330.08

ANNEXURE REFERRED TO IN REPLY TO PARTS (b) TO (d) OF UNSTARRED QUESTION NO. 4769 ANSWERED IN THE LOK SABHA ON 30.03.2017.

Ministry of Power (MoP), Govt. of India and NHPC are in constant touch with state govt. of Assam and other stake holders for immediate resumption of the construction activities of the Project. In this regard various committees/groups such as Technical Experts Committee (TEC) in January 2011, Joint Steering Committee (JSC) in April, 2011, Dam Design Review Panel (DDRP) in December, 2012 were constituted and they have submitted their reports/recommendations. Hon'ble Minister of State (Independent Charge) for Power, Coal, New & Renewable Energy and Mines and Hon'ble Minister of State (I/C) for Skill Development, Entrepreneurship, Youth Affairs & Sports had taken meeting with Expert Group of Assam on 10.12.2014 and with various Stakeholders of Subansiri Lower Project on 11.12.2014 to discuss the issues. As decided in the meeting, a Committee designated as "*Project Oversight Committee (POC)*", consisting of 4 Experts from the Expert Group of Assam and 4 Experts from Govt. of India, has been constituted in Jan, 2015 to provide guidance/oversight to examine and to resolve the various issues relating to the project as also to oversee their compliance along with project implementation. Due to difference in opinion on some issues, separate reports have been submitted by POC members from the Expert Group of Assam & POC members of GOI in Jan./Feb.'16 respectively.

A high level delegation met Hon'ble Chief Minister, Arunachal Pradesh on 24.02.2017 at Itanagar for early restart of the Project. In the meeting, on request of CMD, NHPC Ltd., Chief Minister, Arunachal Pradesh agreed to meet personally with Chief Minister of Assam before a meeting of both Chief Ministers with Hon'ble MoS(IC) for Power.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4794
ANSWERED ON 30.03.2017

ISGAN

4794. SHRI RAHUL SHEWALE:
SHRI DHARMENDRA YADAV:
SHRI ANANDRAO ADSUL:
DR. SHRIKANT EKNATH SHINDE:
SHRI VINAYAK BHAURAO RAUT:
SHRI SHRIRANG APPA BARNE:

Will the Minister of POWER
be pleased to state:

- (a) whether India is one of the founding Members of International Smart Grid Action Network (ISGAN) and if so, the details thereof;
- (b) whether ISGAN creates a mechanism for multilateral Government- to-Government collaboration to advance the development and deployment of smarter electric grid technologies, practices and systems and if so, the facts in this regard;
- (c) whether Smart Grid implementation in the country is likely to get a boost from deliverables obtained through decisions and actions taken in the executive committee meeting of ISGAN and if so, the details thereof; and
- (d) the extent to which the country will be benefited to improve the understanding of smart grid technologies, practices and promote adoption of related enabling Government policies?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) & (b) : Yes, Madam. India is one of the founding members of the International Smart Grid Action Network (ISGAN). ISGAN was launched at the first Clean Energy Ministerial (CEM), a meeting of energy and environment ministers and stakeholders from 23 countries and the European Union held in Washington, D.C on July 19th and 20th, 2010.

.....2.

ISGAN's vision is to accelerate progress on key aspects of smart grid policy, technology and related standards through voluntary participation by governments in specific projects and programs. ISGAN activities center on those aspects of the smart grid where governments have regulatory authority, expertise, convening power, or other leverage, focusing on five principal areas:

- i. Policy standards and regulation
- ii. Finance and business models
- iii. Technology system development
- iv. Workforce skills and knowledge
- v. Users and consumers engagement

(c) & (d) : Yes, Madam. Smart Grid implementation in India would get support from deliverables obtained through decisions and actions taken in 13th ISGAN ExCo Meeting. The dynamic knowledge sharing, technical assistance and periodic ISGAN reports on progress and projects being undertaken in the field of Smart Grids across the world would also be helpful in suitable deployment of Smart Grid technologies in India.

GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.4818
ANSWERED ON 30.03.2017

ELECTRIFICATION OF VILLAGES

†4818. SHRI GOPAL SHETTY:

Will the Minister of POWER
be pleased to state:

- (a) whether the Government has received proposals for electrification of the villages situated in inaccessible areas including the backward villages and forest areas through non-conventional energy sources during the last three years and the current year;
- (b) if so, the details thereof, State- wise;
- (c) the number of proposals approved along with the number of proposals still pending for approval and the time by which the remaining proposals are likely to be approved; and
- (d) the funds released by the Government for this purpose during the said period State/UT-wise?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) to (c) : Decentralized Distributed Generation (DDG) under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) provides electricity access to un-electrified villages/habitations where grid connectivity is not feasible or not cost effective. Based on the proposals received from States, projects of Rs.1254.22 crore have been sanctioned under DDG in the last three years and current year as detailed in Annexure-I. As on date no Detailed Project Report (DPR) under DDG is pending.

(d) : Grant of Rs.264.15 crore has been released under DDG during the last three years and current year. The State-wise details are at Annexure-II.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 4818 ANSWERED IN THE LOK SABHA ON 30.03.2017.

THE STATE-WISE PROJECTS SANCTIONED UNDER DDG DURING THE LAST THREE YEARS AND CURRENT YEAR.

Sr. No.	Name of the State	No. of Projects (Habitations & Villages)	Sanctioned Cost (Rs. in crore)
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Projects sanctioned in 2013-2014

1	Andhra Pradesh	205	49.18
2	Chhattisgarh	87	24.31
4	Karnataka	37	27.50
5	Kerala	15	5.32
6	Meghalaya	3	3.89
7	Odisha	7	1.97
Total		354	112.17

Projects sanctioned in 2014-2015

Nil			
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Projects sanctioned in 2015-2016

1	Andhra Pradesh	165	22.09
2	Assam	521	294.81
3	Arunachal Pradesh	1000	117.48
4	Chhattisgarh	523	177.95
5	Jharkhand	305	147.19
6	Karnataka	2	.62
7	Madhya Pradesh	122	60.93
8	Meghalaya	77	8.23
9	Odisha	190	56.76
Total		2905	886.06

Projects sanctioned in 2016-2017

1	Arunachal Pradesh	176	41.83
2	Chhattisgarh	327	91.26
3	Jharkhand	77	48.98
5	Meghalaya	132	32.32
6	Uttarakhand	13	3.31
7	Odisha	79	38.29
Total		804	255.99
Grand Total		4063	1254.22

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 4818 ANSWERED IN THE LOK SABHA ON 30.03.2017.

State-wise grant release under DDG

Sr. No.	Name of the State	Grant Amount (Rs in crore)
FY 2013-14		
1	Andhra Pradesh	8.78
2	Chhattisgarh	9.36
3	Uttarakhand	1.27
	Sub Total	19.41
FY 2014-15		
1	Andhra Pradesh	1.39
2	Chhattisgarh	13.13
3	Madhya Pradesh	6.64
4	Uttarakhand	1.48
	Sub Total	22.64
FY 2015-16		
1	Andhra Pradesh	10.92
2	Chhattisgarh	32.03
3	Karnataka	5.30
4	Uttar Pradesh	11.32
5	Madhya Pradesh	3.93
	Sub Total	63.50
FY 2016-17		
1	Chhattisgarh	50.98
2	Assam	81.70
3	Rajasthan	24.68
4	Kerala	1.24
	Sub Total	158.60
	Grand Total	264.15
