LOK SABHA UNSTARRED QUESTION NO.3029 ANSWERED ON 03.08.2017

POWER PROJECTS IN ANDHRA PRADESH

3029. SHRI M. RAJA MOHAN REDDY:

Will the Minister of POWER

be pleased to state the project-wise details of the power projects of Andhra Pradesh which are lying pending/sanctioned or on completion stage as on date?

ANSWER

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

(SHRI PIYUSH GOYAL)

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

No hydroelectric project of the state of Andhra Pradesh is pending for concurrence in CEA.

Five (05) thermal power projects and one (01) hydroelectric project are under construction in the State of Andhra Pradesh. The details are given at Annexure.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO UNSTARRED QUESTION NO. 3029 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Details of Under Construction Power Projects in the State of Andhra Pradesh

SI. No.	Name of the project	Unit No	Capacity (MW)
1	Dr.Narla Tata Rao TPS St-V	U-1	800
2	Sri Damodaram Sanjeevaiah TPP St-II	U-1	800
3	Rayalaseema TPP St-IV	U-6	600
4	Bhavanapadu TPP Ph-I	U-1	660
		U-2	660
5	Thamminapatnam TPP stage -II	U-3	350
		U-4	350
6	Polavaram (12x80) (Hydro)	U1-U12	960

LOK SABHA UNSTARRED QUESTION NO.3035 ANSWERED ON 03.08.2017

POWER GENERATION CAPACITY

†3035. SHRI RAHUL KASWAN:

Will the Minister of POWER be pleased to state:

- (a) the details regarding the requirement of power and power generating capacity of various States in the country including Rajasthan;
- (b) whether it is a fact that as compared to the demand the power generating capacity of electricity is very less in Rajasthan; and
- (c) if so, the action being taken by the Government to increase power production in the State?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a): The state-wise energy requirement and energy supplied during 2016-17 and the current year 2017-18 (upto June, 2017) is given at Annexure-I and the details of installed capacity of power utilities in various States/UTs including allocated shares in joint and central sector utilities is given at Annexure-II.
- (b) & (c): The installed capacity of generating stations in the state of Rajasthan including allocated shares in Joint and Central Sector utilities is more than the demand of electricity.

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3035 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Power Supply Position – Energy

In Million Units (MUs)

In Million Units (MUs								,
State /	Apri	I, 2017 - June	,*2017 		April	, 2016 - Marcl	n,2017	
System /	Energy	Energy	-	gy not	Energy	Energy	Energy	
-, -, -, ·	Requirement	Supplied	Sup	plied	Requirement	Supplied	Suppl	1
Region	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%
Chandigarh	487	478	9	1.8	1,645	1,645	0	0.0
Delhi	9,345	9,338	7	0.1	30,829	30,797	32	0.1
Haryana	12,875	12,875	0	0.0	48,895	48,895	0	0.0
Himachal Pradesh	2,326	2,317	9	0.4	8,831	8,779	52	0.6
Jammu & Kashmir	4,597	3,669	928	20.2	17,398	14,194	3,204	18. 4
Punjab	14,015	14,015	0	0.0	53,098	53,098	0	0.0
Rajasthan	16,829	16,723	106	0.6	67,838	67,415	423	0.6
Uttar Pradesh	31,942	31,575	367	1.1	1,07,569	1,05,701	1,868	1.7
Uttarakhand	3,500	3,493	7	0.2	13,069	12,986	83	0.6
Northern Region	95,915	94,481	1,434	1.5	3,49,172	3,43,513	5,659	1.6
Chhattisgarh	6,829	6,829	0	0.0	23,750	23,697	53	0.2
Gujarat	29,192	29,192	0	0.0	1,03,706	1,03,705	1	0.0
Madhya Pradesh	16,166	16,166	0	0.0	65,759	65,758	1	0.0
Maharashtra	40,054	40,003	51	0.1	1,39,295	1,39,228	67	0.0
Daman & Diu	630	630	0	0.0	2,398	2,398	0	0.0
Dadra Nagar Haveli	1,525	1,525	0	0.0	6,021	6,021	0	0.0
Goa	1,036	1,036	0	0.0	4,319	4,317	2	0.0
Western Region	95,433	95,382	51	0.1	3,45,247	3,45,127	120	0.0
Andhra Pradesh	14,384	14,377	7	0.0	54,300	54,257	43	0.1
Telangana	13,291	13,286	5	0.0	53,030	53,018	12	0.0
Karnataka	16,640	16,634	6	0.0	66,899	66,537	362	0.5
Kerala	6,394	6,388	6	0.1	24,296	24,261	35	0.1
Tamil Nadu	27,986	27,977	9	0.0	1,04,511	1,04,487	24	0.0
Puducherry	703	703	0	0.0	2,548	2,545	3	0.1
Lakshadweep#	12	12	0	0.0	48	48	0	0.0
Southern Region	79,399	79,365	34	0.0	3,05,588	3,05,106	482	0.2
Bihar	6,797	6,606	191	2.8	25,711	25,130	581	2.3
DVC	5,230	5,221	9	0.2	18,929	18,791	138	0.7
Jharkhand	1,969	1,962	7	0.4	7,960	7,906	54	0.7
Odisha	7,285	7,283	2	0.0	26,758	26,756	2	0.0
West Bengal	13,627	13,571	56	0.4	47,948	47,807	141	0.3
Sikkim	106	106	0	0.0	475	475	0	0.0
Andaman- Nicobar#	60	45	15	25.0	240	180	60	25. 0
Eastern Region	35,015	34,751	264	0.8	1,27,783	1,26,867	916	0.7
Arunachal Pradesh	183	180	3	1.6	729	714	15	2.1
Assam	2,227	2,111	116	5.2	9,020	8,694	326	3.6
Manipur	184	181	3	1.6	764	740	24	3.1
Meghalaya	407	407	0	0.0	1,715	1,715	0	0.0
Mizoram	124	122	2	1.6	514	501	13	2.5
Nagaland	187	184	3	1.6	757	745	12	1.6
Tripura	605	592	13	2.1	1,644	1,621	23	1.4
North-Eastern Region	3,918	3,777	141	3.6	15,140	14,720	420	2.8
All India	3,09,680	3,07,755	1,925	0.6	11,42,928	11,35,332	7,596	0.7

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

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3035 ANSWERED IN THE LOK SABHA ON 03.08.2017.

INSTALLED CAPACITY (IN MW) OF POWER UTILITIES IN THE STATES/UTS LOCATED IN NORTHERN REGION INCLUDING ALLOCATED SHARES IN JOINT & CENTRAL SECTOR UTILITIES

	T	T	(As on 30.06.2017)						
	Ownership/				lodewise br	eakup	1		Grand
State	Sector		Ther	mal	T	Nuclear	Hydro	RES	Total
		Coal	Gas	Diesel	Total	Nuoicai	(Renewable)	(MNRE)	10.0.
	State	135.00	1800.40	0.00	1935.40	0.00	0.00	0.00	1935.40
Delhi	Private	869.22	108.00	0.00	977.22	0.00	0.00	56.27	1033.49
Deiiii	Central	3821.18	207.01	0.00	4028.19	102.83	723.09	0.00	4854.11
	Sub-Total	4825.40	2115.41	0.00	6940.81	102.83	723.09	56.27	7823.00
	State	2720.00	150.00	0.00	2870.00	0.00	1084.51	59.30	4013.81
Uemrene	Private	4080.78	0.00	0.00	4080.78	0.00	200.00	192.00	4472.78
Haryana	Central	1269.32	535.61	0.00	1804.94	100.94	663.70181	0.00	2569.58
	Sub-Total	8070.10	685.61	0.00	8755.72	100.94	1948.21	251.30	11056.16
	State	0.00	0.00	0.00	0.00	0.00	594.60	256.61	851.21
Himachal	Private	0.00	0.00	0.00	0.00	0.00	980.00	579.43	1559.43
Pradesh	Central	170.74	62.01	0.00	232.75	28.95	1223.88	0.00	1485.58
	Sub-Total	170.74	62.01	0.00	232.75	28.95	2798.48	836.04	3896.22
	State	0.00	175.00	0.00	175.00	0.00	1230.00	108.03	1513.03
Jammu &	Private	0.00	0.00	0.00	0.00	0.00	0.00	51.36	51.36
Kashmir	Central	463.15	129.07	0.00	592.23	67.98	1048.98	0.00	1709.19
	Sub-Total	463.15	304.07	0.00	767.23	67.98	2278.98	159.39	3273.58
	State	2630.00	150.00	0.00	2780.00	0.00	2570.23	127.80	5478.03
	Private	5115.50	0.00	0.00	5115.50	0.00	288.00	1040.80	6444.30
Punjab	Central	871.08	264.01	0.00	1135.09	196.81	923.42	0.00	2255.32
	Sub-Total	8616.58	414.01	0.00	9030.59	196.81	3781.65	1168.60	14177.65
	State	5850.00	603.80	0.00	6453.80	0.00	1087.96	23.85	7565.61
	Private	3882.00	0.00	0.00	3882.00	0.00	104.00	6362.24	10348.24
Rajasthan	Central	1153.91	221.10	0.00	1375.01	556.74	739.01	0.00	2670.76
	Sub-Total	10885.91	824.90	0.00	11710.81	556.74	1930.97	-	20584.61
	State	5923.00	0.00	0.00	5923.00	0.00	724.10	25.10	6672.20
Uttar	Private	8714.33	0.00	0.00	8714.33	0.00	842.00	1	11853.33
Pradesh	Central	3315.25	549.49	0.00	3864.74	289.48	1664.93	0.00	5819.15
	Sub-Total	17952.58	549.49	0.00	18502.07	289.48	3231.03		24344.68
	State	0.00	0.00	0.00	0.00	0.00	1252.15	62.87	1315.02
	Private	99.00	450.00	0.00	549.00	0.00	88.00	452.94	1089.94
Uttarakhand	Central	332.05	69.66	0.00	401.71	31.24	475.54	0.00	908.49
	Sub-Total	431.05	519.66	0.00	950.71	31.24	1815.69	515.81	3313.45
	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Private	0.00	0.00	0.00	0.00	0.00	0.00	17.32	17.32
Chandigarh	Central	34.86	15.03	0.00	49.88	8.01	101.71	0.00	159.60
	Sub-Total	34.86	15.03	0.00	49.88	8.01	101.71	17.32	176.92
Central - Unal	l .	1198.83	291.05	0.00	1489.88	237.03	701.95	0.00	2428.87
Jentral - Ullai	State	17258.00	2879.20	0.00	20137.20	0.00	8543.55	663.56	29344.31
Total		22760.83			23318.83				
(Northern	Private		558.00	0.00	14974.43	0.00 1620 00	2502.00	11049.36	36870.19
Region)	Central	12630.37	2344.06	0.00		1620.00	8266.22	0.00	24860.65
	Grand Total	52649.20	5781.26	0.00	58430.46	1620.00	19311.77	11/12.92	91075.15

INSTALLED CAPACITY (IN MW) OF POWER UTILITIES IN THE STATES/UTS LOCATED IN WESTERN REGION INCLUDING ALLOCATED SHARES IN JOINT & CENTRAL SECTOR UTILITIES

		(As on 30.06.2017							.06.2017)
				М	odewise bre	akup			
State	Ownership		Therr	nal			Hydro	RES	Grand
State	/ Sector	Coal	Gas	Diesel	Total	Nuclear	(Renew- able)	(MNRE)	Total
	State	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
Goa	Private	0.00	48.00	0.00	48.00	0.00	0.00	0.71	48.71
Goa	Central	451.12	22.20	0.00	473.32	26.00	0.00	0.00	499.32
	Sub-Total	451.12	70.20	0.00	521.32	26.00	0.00	0.76	548.08
	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daman &	Private	0.00	0.00	0.00	0.00	0.00	0.00	10.46	10.46
Diu	Central	122.96	48.40	0.00	171.36	7.00	0.00	0.00	178.36
	Sub-Total	122.96	48.40	0.00	171.36	7.00	0.00	10.46	188.82
	State *	5230.00	2177.82	0.00	7407.82	0.00	772.00	8.00	8187.82
C!1	Private	7765.67	3960.00	0.00	11725.67	0.00	0.00	6770.37	18496.04
Gujarat	Central	3012.09	424.00	0.00	3436.09	559.00	0.00	0.00	3995.09
	Sub-Total	16007.76	6561.82	0.00	22569.58	559.00	772.00	6778.37	30678.95
	State	4080.00	0.00	0.00	4080.00	0.00	1703.66	83.96	5867.62
Madhya	Private	5574.00	100.00	0.00	5674.00	0.00	0.00	3453.93	9127.93
Pradesh	Central	2720.70	257.00	0.00	2977.70	273.00	1520.00	0.00	4770.70
	Sub-Total	12374.70	357.00	0.00	12731.70	273.00	3223.66	3537.89	19766.25
	State	3280.00	0.00	0.00	3280.00	0.00	120.00	11.05	3411.05
Chhattianach	Private	7230.00	0.00	0.00	7230.00	0.00	0.00	421.81	7651.81
Chhattisgarh	Central	1628.44	0.00	0.00	1628.44	48.00	0.00	0.00	1676.44
	Sub-Total	12138.44	0.00	0.00	12138.44	48.00	120.00	432.86	12739.30
	State	10380.00	672.00	0.00	11052.00	0.00	2884.84	208.12	14144.96
Mahayaabtya	Private	12306.00	568.00	0.00	12874.00	0.00	447.00	7440.67	20761.67
Maharashtra	Central	4219.43	2513.00	0.00	6732.43	690.00	0.00	0.00	7422.43
	Sub-Total	26905.43	3753.00	0.00	30658.43	690.00	3331.84	7648.79	42329.06
	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dadra &	Private	0.00	0.00	0.00	0.00	0.00	0.00	2.97	2.97
Nagar Naveli	Central	169.21	71.40	0.00	240.61	9.00	0.00	0.00	249.61
	Sub-Total	169.21	71.40	0.00	240.61	9.00	0.00	2.97	252.58
Central - Unall	located	1994.00	197.59	0.00	2191.59	228.00	0.00	0.00	2419.59
	State	22970.00	2849.82	0.00	25819.82	0.00	5480.50	311.18	31611.50
Total	Private	32875.67	4676.00	0.00	37551.67	0.00	447.00	18100.92	56099.59
(Western	Central	14317.95	3533.59	0.00	17851.54	1840.00	1520.00	0.00	21211.54
Region)	Grand Total	70163.62	11059.41	0.00	81223.03	1840.00	7447.50	18412.10	108922.63

INSTALLED CAPACITY (IN MW) OF POWER UTILITIES IN THE STATES/UTS LOCATED IN SOUTHERN REGION INCLUDING ALLOCATED SHARES IN JOINT & CENTRAL SECTOR UTILITIES

			Modewise breakup						
State	Ownership/		Ther		ouewise bro	закир	Libratura.	DEC	Grand
State	Sector	01				Nuclear	Hydro	RES	Total
	21.1	Coal	Gas	Diesel	Total		(Renewable)	(MNRE)	2422.72
	State	4410.00	235.40	0.00	4645.40	0.00	1673.60	89.50	6408.50
Andhra	Private	3873.88	3694.12	36.80	7604.80	0.00	0.00	6321.19	13925.99
Pradesh	Central	1607.60	0.00	0.00	1607.60	127.27	0.00	0.00	1734.87
	Sub-Total	9891.48	3929.52	36.80	13857.80	127.27	1673.60	6410.69	22069.36
	State	4082.50	0.00	0.00	4082.50	0.00	2380.93	0.00	6463.43
Telangana	Private	839.45	950.88	0.00	1790.33	0.00	0.00	1868.17	3658.50
Telaligalia	Central	1878.12	0.00	0.00	1878.12	148.73	0.00	0.00	2026.85
	Sub-Total	6800.07	950.88	0.00	7750.95	148.73	2380.93	1868.17	12148.78
	State	5020.00	0.00	127.92	5147.92	0.00	3599.80	155.33	8903.05
17	Private	1958.50	0.00	25.20	1983.70	0.00	0.00	7478.48	9462.18
Karnataka	Central	2429.20	0.00	0.00	2429.20	698.00	0.00	0.00	3127.20
	Sub-Total	9407.70	0.00	153.12	9560.82	698.00	3599.80	7633.81	21492.43
	State	0.00	0.00	159.96	159.96	0.00	1881.50	145.02	2186.48
	Private	615.00	174.00	0.00	789.00	0.00	0.00	193.70	982.70
Kerala	Central	1108.18	359.58	0.00	1467.76	362.00	0.00	0.00	1829.76
	Sub-Total	1723.18	533.58	159.96	2416.72	362.00	1881.50	338.72	4998.94
	State	4320.00	524.08	0.00	4844.08	0.00	2203.20	122.70	7169.98
Tamil	Private	4837.67	503.10	411.70	5752.47	0.00	0.00	10516.74	16269.21
Nadu	Central	4389.52	0.00	0.00	4389.52	1448.00	0.00	0.00	5837.52
	Sub-Total	13547.19	1027.18	411.70	14986.07	1448.00	2203.20	10639.44	29276.71
	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NLC	Central	100.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
	Sub-Total	100.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
	State	0.00	32.50	0.00	32.50	0.00	0.00	0.00	32.50
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08
Puducherry	Central	248.40	0.00	0.00	248.40	86.00	0.00	0.00	334.40
	Sub-Total	248.40	32.50	0.00	280.90	86.00	0.00	0.08	366.98
Central - Una		1664.00	0.00	0.00	1664.00	450.00	0.00	0.00	2114.00
Jonesa - Olic	State	17832.50	791.98	287.88	18912.36	0.00	11739.03	512.55	31163.94
Total	Private	12124.50	5322.10	473.70	17920.30	0.00	0.00	26378.36	44298.66
(Southern		13425.02	359.58	0.00	13784.60	3320.00	0.00	0.00	17104.60
Region)	Central	13423.02	333.30	0.00	13/04.00	3320.00	0.00	0.00	17 104.60
Kegion,	Grand Total	43382.02	6473.66	761.58	50617.26	3320.00	11739.03	26890.91	92567.20

INSTALLED CAPACITY (IN MW) OF POWER UTILITIES IN THE STATES/UTS LOCATED IN EASTERN REGION INCLUDING ALLOCATED SHARES IN JOINT & CENTRAL SECTOR UTILITIES

			(As on 30.06.2017)						
	Ownership			N	lodewise b	reakup			Grand
State	/ Sector		The	mal		Nuclear	Hydro	RES	Total
	/ Sector	Coal	Gas	Diesel	Total	Nuclear	(Renewable)	(MNRE)	Iotai
	State	210.00	0.00	0.00	210.00	0.00	0.00	70.70	280.70
Bihar	Private	281.00	0.00	0.00	281.00	0.00	0.00	224.52	505.52
Billai	Central	2939.33	0.00	0.00	2939.33	0.00	110.00	0.00	3049.32
	Sub-Total	3430.33	0.00	0.00	3430.33	0.00	110.00	295.22	3835.54
	State	420.00	0.00	0.00	420.00	0.00	130.00	4.05	554.05
lla autola autol	Private	850.00	0.00	0.00	850.00	0.00	0.00	23.27	873.27
Jharkhand	Central	748.74	0.00	0.00	748.74	0.00	61.00	0.00	809.74
	Sub-Total	2018.74	0.00	0.00	2018.74	0.00	191.00	27.32	2237.06
	State	5520.00	100.00	0.00	5620.00	0.00	986.00	91.95	6697.95
West	Private	2331.38	0.00	0.00	2331.38	0.00	0.00	332.69	2664.07
Bengal	Central	760.77	0.00	0.00	760.77	0.00	410.00	0.00	1170.77
	Sub-Total	8612.15	100.00	0.00	8712.15	0.00	1396.00	424.64	10532.78
	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DVC	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DVC	Central	7535.04	0.00	0.00	7535.04	0.00	186.20	0.00	7721.24
	Sub-Total	7535.04	0.00	0.00	7535.04	0.00	186.20	0.00	7721.24
	State	420.00	0.00	0.00	420.00	0.00	2061.92	6.30	2488.22
0-1:-1	Private	2939.00	0.00	0.00	2939.00	0.00	0.00	188.15	3127.15
Odisha	Central	1633.90	0.00	0.00	1633.90	0.00	89.00	0.00	1722.90
	Sub-Total	4992.90	0.00	0.00	4992.90	0.00	2150.92	194.45	7338.27
	State	0.00	0.00	0.00	0.00	0.00	360.00	52.11	412.11
0.11.	Private	0.00	0.00	0.00	0.00	0.00	291.00	0.00	291.00
Sikkim	Central	87.03	0.00	0.00	87.03	0.00	64.00	0.00	151.03
	Sub-Total	87.03	0.00	0.00	87.03	0.00	715.00	52.11	854.14
Central - Una	allocated	1101.83	0.00	0.00	1101.83	0.00	85.01	0.00	1186.84
	State	6570.00	100.00	0.00	6670.00	0.00	3537.92	225.11	10433.03
Total	Private	6401.38	0.00	0.00	6401.38	0.00	291.00	768.63	7461.00
(Eastern	Central	14806.64	0.00	0.00	14806.64	0.00	1005.20	0.00	15811.84
Region)	Grand Total	27778.02	100.00	0.00	27878.02	0.00	4834.12	993.74	33705.87

INSTALLED CAPACITY (IN MW) OF POWER UTILITIES IN THE STATES/UTS LOCATED IN NORTH-EASTERN REGION INCLUDING ALLOCATED SHARES IN JOINT & CENTRAL SECTOR UTILITIES

(As on 30.06.2017)

				ı	Modewise I	breakup	•		
State	Ownership/		Ther	mal			Hydro	RES	Grand
	Sector	Coal	Gas	Diesel	Total	Nuclear	(Renewable)	(MNRE)	Total
	State	60.00	323.45	0.00	383.45	0.00	100.00	30.01	513.46
	Private	0.00	24.50	0.00	24.50	0.00	0.00	15.88	40.38
Assam	Central	279.02	435.56	0.00	714.58	0.00	331.23	0.00	1045.81
	Sub-Total	339.02	783.51	0.00	1122.53	0.00	431.23	45.89	1599.65
	State	0.00	0.00	0.00	0.00	0.00	0.00	104.61	104.61
Arunachal	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27
Pradesh	Central	24.70	46.82	0.00	71.52	0.00	97.45	0.00	168.97
	Sub-Total	24.70	46.82	0.00	71.52	0.00	97.45	104.87	273.84
	State	0.00	0.00	0.00	0.00	0.00	322.00	31.03	353.03
Manhalassa	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Meghalaya	Central	30.40	109.69	0.00	140.09	0.00	65.19	0.00	205.28
	Sub-Total	30.40	109.69	0.00	140.09	0.00	387.19	31.04	558.32
	State	0.00	169.50	0.00	169.50	0.00	0.00	16.01	185.51
T	Private	0.00	0.00	0.00	0.00	0.00	0.00	5.09	5.09
Tripura	Central	37.40	436.95	0.00	474.35	0.00	62.38	0.00	536.73
	Sub-Total	37.40	606.45	0.00	643.85	0.00	62.38	21.10	727.33
	State	0.00	0.00	36.00	36.00	0.00	0.00	5.45	41.45
Manipur	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
wanipur	Central	31.40	71.57	0.00	102.97	0.00	88.93	0.00	191.90
	Sub-Total	31.40	71.57	36.00	138.97	0.00	88.93	5.48	233.38
	State	0.00	0.00	0.00	0.00	0.00	0.00	30.67	30.67
Nagaland	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50
Nagaiand	Central	21.40	48.93	0.00	70.33	0.00	53.37	0.00	123.70
	Sub-Total	21.40	48.93	0.00	70.33	0.00	53.37	31.17	154.87
	State	0.00	0.00	0.00	0.00	0.00	0.00	41.47	41.47
Minorom	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10
Mizoram	Central	20.70	40.46	0.00	61.16	0.00	34.19	0.00	95.35
	Sub-Total	20.70	40.46	0.00	61.16	0.00	34.19	41.57	136.92
Central - Un	allocated	75.00	63.62	0.00	138.62	0.00	127.26	0.00	265.88
Total	State	60.00	492.95	36.00	588.95	0.00	422.00	259.25	1270.20
(North-	Private	0.00	24.50	0.00	24.50	0.00	0.00	21.88	46.38
Eastern	Central	520.02	1253.60	0.00	1773.62	0.00	860.00	0.00	2633.62
Region)	Grand Total	580.02	1771.05	36.00	2387.07	0.00	1282.00	281.12	3950.19

INSTALLED CAPACITY (IN MW) OF POWER UTILITIES IN THE STATES/UTS LOCATED IN ISLANDS INCLUDING ALLOCATED SHARES IN JOINT & CENTRAL SECTOR UTILITIES

(As on 30.06.2017)

								(A3 OII &	0.00.20 1 <i>1</i>)
	O		Grand						
State	Ownership/	Thermal				Hydro	RES	Total	
	Sector	Coal	Gas	Diesel	Total	Nuclear	(Renewable)	(MNRE)	Iotai
	State	0.00	0.00	40.05	40.05	0.00	0.00	5.25	45.30
Andaman &	Private	0.00	0.00	0.00	0.00	0.00	0.00	6.56	6.56
Nicobar	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-Total	0.00	0.00	40.05	40.05	0.00	0.00	11.81	51.86
	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lakabaduraan	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75
Lakshadweep	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75
7 .4.1.(1.1	State	0.00	0.00	40.05	40.05	0.00	0.00	5.25	45.30
	Private	0.00	0.00	0.00	0.00	0.00	0.00	7.31	7.31
Total (Islands)	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grand Total	0.00	0.00	40.05	40.05	0.00	0.00	12.56	52.61

LOK SABHA UNSTARRED QUESTION NO.3040 ANSWERED ON 03.08.2017

POWER SURVEY IN KERALA

3040. DR. SHASHI THAROOR:

Will the Minister of POWER be pleased to state:

- (a) the expected power demand in the State of Kerala (Peak Load) for 2017-18;
- (b) the measures taken by the Ministry to increase the power generation capacity of the State in the light of the cancellation of proposed projects such as the Kasargod Power Station;
- (c) whether his Ministry proposes to assist the State to establish LNG power plants in the light of the completion of the LNG Terminal at Kochi, one of only four such Terminals in the country;
- (d) if so, the details thereof; and
- (e) if not, the reasons therefor?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a): The expected peak demand in the State of Kerala during 2017-18 is 4387 MW.
- (b): Electricity is a concurrent subject. Arrangement of electricity and the distribution thereof to consumers within a State is in the purview of the respective State Government/State Power Utility. States, in order to fulfil their future requirements of power, may call for bids for power procurement from project developers. Government of India only supplements the efforts of the State Governments by establishing power plants in Central Sector through Central Public Sector Undertakings (CPSUs) and allocating power from them to the States / UTs. Further, there is sufficient transmission capacity available for transfer of power to the State.

The share of Kerala in the upcoming Central Sector Projects is 105 MW and 43 MW in Kudgi (2400 MW) by NTPC and Bhavini, Kalpakkam (500 MW) respectively.

(c) to (e): There is no such proposal under consideration of Ministry of Power. A new power plant in any location is based and planned on electricity demand in that region.

LOK SABHA UNSTARRED QUESTION NO.3078 ANSWERED ON 03.08.2017

BID FOR POWER TRANSMISSION PROJECTS

3078. DR. C. GOPALAKRISHNAN:

Will the Minister of POWER be pleased to state:

- (a) whether the China's State run Southern Power Grid plans to bid for power transmission projects in India, if so, the details thereof;
- (b) whether Government is also attracting interest from foreign firms including Chinese companies;
- (c) if so, the details thereof;
- (d) the total number of Chinese companies interested to invest in India's power projects; and
- (e) the action taken or proposed to be taken by the Government on awarding projects to Chinese companies?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a) & (d): Yes, Madam, the China's State run Southern Power Grid, in association with CLP India Pvt. Ltd., is participating in the bidding process for three transmission projects being implemented through Tariff Based Competitive Bidding (TBCB).
- (b) & (c): As per the guidelines for "Tariff Based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power dated 13.04.2006 in pursuance of Section 63 of Electricity Act, the developer for establishment of Independent Transmission Project are selected through International Competitive Bidding (ICB), process.

			2
	 		- 4

In the Independent Transmission Projects for which bidding process was conducted earlier, foreign companies like Isolux Corsan Concesiones, Spain, Instalaciones Inabensa S.A., Spain, CLP India Pvt. Ltd., Cobra Instalaciones Y Servicios S.A. Spain, Babcock and Brown Investment Holding (Singapore) Pvt Ltd., Singapore, State Grid International development Limited, Balfour Beatty Infrastructure Investments Ltd. in consortium with Tata Projects Ltd. had participated. In one of the Independent Transmission Project i.e. Transmission system associated with DGEN TPS (1200 MW) of Torrent Power Ltd.), the successful bidder was Instalaciones Inabensa, S.A., Spain.

(e): The three transmission projects, in which Chinese companies are participating, are under process.

LOK SABHA UNSTARRED QUESTION NO.3087 ANSWERED ON 03.08.2017

GAS BASED POWER PROJECTS

3087. DR. K. KAMARAJ:

Will the Minister of POWER be pleased to state:

- (a) the details of gas based power projects in the country along with their power generation capacity, project and State-wise;
- (b) whether Government proposes to increase power generation capacity of these power projects;
- (c) if so, the details thereof along with the funds earmarked for the purpose; and
- (d) the other steps being taken/ proposed to be taken by the Government to exploit full capacity of gas based power projects?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a): The details of gas based power projects in the country is given at Annexure.
- (b) & (c): At present, there is no such proposal under consideration to increase power generation capacity of these power projects.
- (d): Ministry of Petroleum & Natural Gas (MoP&NG) has stated that domestic gas is being supplied to the power sector as per current production level and domestic natural gas supply to power sector can improve only in case production levels increase in future and as per prevailing guidelines of MoP&NG.

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO.3087 ANSWERED IN THE LOK SABHA ON 03.08.2017.

SI.	Name of	Installed	Name of the
No	Power Station	Capacity	
		(MW)	State
	CENTRAL	. SECTOR	
1	NTPC, FARIDABAD CCPP	431.59	HARYANA
2	NTPC, ANTA CCPP	419.33	RAJASTHAN
3	NTPC, AURAIYA CCPP	663.36	UTTAR PRADESH
4	NTPC, DADRI CCPP	829.78	UTTAR PRADESH
5	NTPC, GANDHAR(JHANORE) CCPP	657.39	GUJARAT
6	NTPC, KAWAS CCPP	656.2	GUJARAT
7	RATNAGIRI (RGPPL-DHABHOL)	1967	MAHARASHTRA
8	KATHALGURI (NEEPCO)	291	ASSAM
9	MONARCHAK(NEEPCO)	101	TRIPURA
10	AGARTALA GT+ST (NEEPCO)	135	TRIPURA
11	TRIPURA CCPP (ONGC)	726.6	TRIPURA
	STATE	SECTOR	•
12	I.P.CCPP	270	DELHI
13	PRAGATI CCGT-III	1500	DELHI
14	PRAGATI CCPP	330.4	DELHI
15	DHOLPUR CCPP	330	RAJASTHAN
16	RAMGARH (RRVUNL, Jaisalmer)	273.8	RAJASTHAN
17	PIPAVAV CCPP	702	GUJARAT
18	DHUVARAN CCPP(GSECL)	594.72	GUJARAT
19	HAZIRA CCPP(GSEG)	156.1	GUJARAT
20	HAZIRA CCPP EXT	351	GUJARAT
21	UTRAN CCPP(GSECL)	518	GUJARAT
22	URAN CCPP (MAHAGENCO)	672	MAHARASHTRA
23	KARAIKAL CCPP (PPCL)	32.5	PUDUCHERRY
24	KOVIKALPAL (THIRUMAKOTTAI)	107	TAMIL NADU
25	KUTTALAM (TANGEDCO)	100	TAMIL NADU
26	VALUTHUR CCPP	186.2	TAMIL NADU
27	GODAVARI (JEGURUPADU)	216	ANDHRA PRADESH
28	LAKWA GT (ASEB, Maibella)	157.2	ASSAM
29	NAMRUP CCPP + ST (APGCL)	181.5	ASSAM
30	BARAMURA GT (TSECL)	58.5	TRIPURA
31	ROKHIA GT (TSECL)	111	TRIPURA
	PRIVATE/I	PP SECTOR	
32	RITHALA CCPP (NDPL)	108	DELHI
33	GAMA CCPP	225	UTTARAKHAND
34	KASHIPUR CCPP (Sravanthi)	225	UTTARAKHAND

35	TROMBAY CCPP (TPC)	180	MAHARASHTRA
36	MANGAON CCPP	388	MAHARASHTRA
37	BARODA CCPP (GIPCL)	160	GUJARAT
38	ESSAR CCPP	300	GUJARAT
39	PAGUTHAN CCPP (GPEC)	655	GUJARAT
40	SUGEN CCPP (TORRENT)	1147.5	GUJARAT
41	UNOSUGEN CCPP	382.5	GUJARAT
42	DGEN Mega CCPP	1200	GUJARAT
43	GAUTAMI CCPP	464	ANDHRA PRADESH
44	GMR - KAKINADA (Tanirvavi)	220	ANDHRA PRADESH
45	GMR-Rajamundry Energy Ltd.	768	ANDHRA PRADESH
46	GODAVARI (SPECTRUM)	208	ANDHRA PRADESH
47	JEGURUPADU CCPP (GVK)	239.4	ANDHRA PRADESH
	PHASE- II		
48	KONASEEMA CCPP	445	ANDHRA PRADESH
49	KONDAPALLI EXTN CCPP.	366	ANDHRA PRADESH
50	KONDAPALLI ST-3 CCPP	742	ANDHRA PRADESH
	(LANCO)		
51	KONDAPALLI CCPP (LANCO)	350	ANDHRA PRADESH
52	PEDDAPURAM (BSES)	220	ANDHRA PRADESH
53	VEMAGIRI CCPP	370	ANDHRA PRADESH
54	VIJESWARAN CCPP	272	ANDHRA PRADESH
55	PCIL POWER AND HOLDINGS Ltd	30	ANDHRA PRADESH
56	RVK ENERGY	28	ANDHRA PRADESH
57	SILK ROAD SUGAR	35	ANDHRA PRADESH
58	LVS POWER	55	ANDHRA PRADESH
59	KARUPPUR CCPP (LANCO	119.8	TAMIL NADU
	TANJORE)		
60	P.NALLUR CCPP (PPN)	330.5	TAMIL NADU
61	VALANTARVY CCPP	52.8	TAMIL NADU
62	DLF ASSAM GT	24.5	ASSAM
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LOK SABHA UNSTARRED QUESTION NO.3097 ANSWERED ON 03.08.2017

DEFINITION OF ELECTRIFICATION OF A VILLAGE

3097. SHRI M.I. SHANAVAS:

Will the Minister of POWER be pleased to state:

- (a) whether the definition of electrification of a village as per the Government guidelines has led to a faulty and erroneous calculation of data of rural electrification completed in the country as it doesn't take into account the actual electricity connection or its supply to the households; and
- (b) if so, the steps proposed to be taken by the Government to rectify the mistakes in this regard?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a) & (b): According to Rural Electrification Policy 2006, a village is reported as electrified, if
 - i) basic infrastructure such as Distribution Transformer and Distribution Lines are provided in the inhabited locality as well as the locality inhabited by weaker sections of the society/hamlet where it exists,
 - ii) electricity is provided to public places like Schools, Panchayat Office, Health Centres, Dispensaries, Community Centres etc., and
 - iii) the number of household electrified should be at least 10% of the total number of households in the village.

A village is reported to be electrified by the States, if it fulfills the above mentioned norms. However, level of infrastructure may vary in different habitations of the same village.

To supplement the efforts of the States, Government of India has taken up a joint initiative with all States/UTs for preparation of State specific documents for providing 24x7 power supply to all households/homes, industrial & commercial consumers and adequate supply of power to agricultural consumers as per State policy. All the State Governments and Union Territories have signed the "24X7 Power For All" agreement with the Union Government.

Government of India supplements the efforts of States through its schemes including Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS), Ujwal DISCOM Assurance Yojana (UDAY) etc.

LOK SABHA UNSTARRED QUESTION NO.3102 ANSWERED ON 03.08.2017

ENVIRONMENTAL CLEARANCE

3102. SHRI MULLAPPALLY RAMACHANDRAN:

Will the Minister of POWER be pleased to state:

- (a) whether environmental clearance has been given to Athirappilly Hydroelectric Power Project in Kerala; and
- (b) if so, the details thereof and its present status?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) & (b): The Ministry of Environment, Forest & Climate Change granted environmental clearance to Athirappally Hydroelectric Power Project (163 MW) in Thrissur District of Kerala on 18.07.2007. The validity of the same has expired on 17.07.2017.

LOK SABHA UNSTARRED QUESTION NO.3103 ANSWERED ON 03.08.2017

INSTALLATION OF TRANSFORMER

3103. SHRIMATI MEENAKASHI LEKHI:

Will the Minister of POWER be pleased to state:

- (a) whether the Government is planning to install transformers upto 500KVA on double pole structure; and
- (b) if so, the details thereof?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) & (b): As per Central Electricity Authority (Technical Standards for Construction of Electrical Plants & Electric Lines) Amendment Regulations, 2015, the mounting of distribution transformer would be as per relevant Indian Standards and the relevant Indian Standards [IS 1180 (Part 1):2014] allows options for the pole mounting arrangement for transformer up to 500 kVA.

The distribution utility has to decide the use of single pole, double pole or four pole structure to install the transformer up to 500 kVA as per the location and practices being followed in the utility.

LOK SABHA UNSTARRED QUESTION NO.3122 ANSWERED ON 03.08.2017

PER CAPITA CONSUMPTION OF POWER

3122. SHRI TEJ PRATAP SINGH YADAV:

Will the Minister of POWER be pleased to state:

- (a) whether India is 5th largest producer of electricity in the world but it ranks 150th in terms of per capita consumption;
- (b) if so, the details thereof;
- (c) whether the demand and supply mismatch for electricity is growing even as millions have no access to power at all, especially in rural areas;
- (d) if so, the details thereof;
- (e) whether reforms in power sector is imperative as estimated financial loss amounts to over 4 per cent of GDP; and
- (f) if so, the steps being taken by the Government in this regard?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a) & (b): As per information available from International Energy Agency (IEA), India was the 3rd largest producer of electricity in the world and 105th in terms of per capita consumption in 2014. Top ten electricity producing countries in the world as per data by Key World Energy Statistics 2016 (IEA) for the year 2014 is given at Annexure-I. The per capita consumption of various countries as per Key World Energy Statistics 2016 (International Energy Agency) for the year 2014 is given at Annexure-II.
- (c) & (d): The gap in demand and supply of electricity, in terms of Peak in MW and Energy in MU has progressively reduced despite increase in Peak demand and Energy requirement. The details are given at Annexure–III.
- (e) & (f): As per the report of PFC, the aggregate losses for utilities selling power directly to consumers are having decreasing trend. As a reform measure, Ministry of Power has commenced UDAY (Ujwal DISCOM Assurance Yojana), [a Scheme for the Financial turnaround of Power Distribution Companies (DISCOMs)] with a view to improving the operational and financial efficiency of the State DISCOMs.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3122 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Top ten electricity producing countries in the world as per data by Key World Energy Statistics 2016 (IEA) for the year 2014

S. No.	Country	Electricity Production (TWh)				
1	People's Rep. of China	5666				
2	United States	4319				
3	India	1279*				
4	Russian Federation	1062				
5	Japan	1036				
6	Canada	656				
7	Germany	622				
8	Brazil	591				
9	France	557				
10	Korea	546				

^{*}Figure in respect of India has been calculated by CEA and pertains to the financial year 2014-15

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3122 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Per capita consumption of various countries as per Key World Energy Statistics 2016 (International Energy Agency) for the year 2014

SI. No.	Region/Country	Electricity per capita consumption (kWh/popl.)
1	Iceland	53896
2	Norway	23001
3	Bahrain	19224
4	Qatar	16736
5	Canada	15544
6	Kuwait	15333
7	Finland	15246
8	Luxembourg	13873
9	Sweden	13480
10	United States	12962
11	United Arab Emirates	11245
12	Chinese Taipei	10738
13	Korea	10564
14	Brunei Darussalam	10113
15	Australia	10002
16	Saudi Arabia	9410
17	New Zealand	9131
18	Singapore	8844
19	Austria	8358
20	Japan	7829
21	Belgium	7745
22	Switzerland	7520
23	Trinidad and Tobago	7137
24	Germany	7035
25	France	6955
26	Slovenia	6728
27	Estonia	6725
28	Netherlands	6713
29	Israel	6604
30	Russian Federation	6603
31	Czech Republic	6259
32	Oman	6128
33	Hong Kong, China	6073
34	Denmark	5859
35	Gibraltar	5818
36	Ireland	5725
37	Kazakhstan	5600
38	Spain	5358
39	Slovak Republic	5137
40	United Kingdom	5131
41	Greece	5047
42	Malta	5012
43	Italy	5002
44	Cyprus ⁵	4868
45	Curaçao	4795

40	T	4700
46	Bulgaria	4709
47	Portugal	4663
48	Malaysia	4646
49	Montenegro	4611
50	Serbia	4273
51	South Africa	4240
52	Hungary	3966
53	China (People's Rep. of)	3927
54	Poland	3923
55	Chile	3863
56	Lithuania	3826
57	Croatia	3715
58	Suriname ⁵	3699
59	Belarus	3682
60	Lebanon	3565
61	Latvia ⁵	3514
62	FYR of Macedonia	3500
63	Ukraine	3412
64	Bosnia and Herzegovina	3144
65	Uruguay	3068
66	Argentina	3052
67	Islamic Rep. of Iran	2996
68	Turkey	2870
69	Kosovo	2803
70	Turkmenistan	2759
71	Venezuela	2661
72	Romania	2584
73	Brazil	2578
74	Thailand	2566
75	Jordan	2517
76	Albania	2305
77	Georgia	2225
78	Azerbaijan	2202
79	Mauritius	2182
80	Mexico	2169
81	Panama	2082
82	Mongolia	2027
83	Costa Rica	1958
84	Kyrgyzstan	1942
85	Armenia	1901
86	Libya	1841
87	Botswana	1708
88	Egypt	1699
89	Uzbekistan	1645
90	Dominican Republic	1578
91	Namibia	1563
92	Paraguay	1563
93	Tajikistan	1492
94	Tunisia	1463
95	Cuba	1442
96	Vietnam	1439
97	Moldova	1386
98	Ecuador	1381
99	Algeria	1363
100	Iraq	1313
100	HAY	1313

101	Peru	1308
102	Gabon	1303
103	Colombia	1290
104	Jamaica	1110
105	India	1010
106	El Salvador	966
107	Morocco	912
108	Syrian Arab Republic	823
109	Indonesia	814
110	Bolivia	753
111	Philippines	706
112	Zambia	703
113	Honduras	697
114	DPR of Korea	602
115	Nicaragua	580
116	Guatemala	575
117	Zimbabwe	543
118	Sri Lanka	535
119	Pakistan	472
120	Mozambique	463
121	Ghana	357
122	Angola	347
123	Bangladesh	311
124	Côte d'Ivoire	281
125	Cameroon	274
126	Cambodia	270
127	Sudan	248
128	Senegal	222
129	Yemen	217
130	Republic of Congo	213
131	Myanmar	211
132	Kenya	171
133	Togo	155
134	Nigeria	144
135	Nepal	140
136	Dem. Rep. of the Congo	107
137	Tanzania	100
138	Benin	97
139	Ethiopia	70
140	Eritrea	63
141	Niger	52
142	Haiti	39
143	South Sudan	39

Note: Figure in respect of India has been calculated by CEA and pertains to the financial year 2014-15

ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 3122 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Year wise Demand and supply of electricity

FY	Peak	Peak	G	ар	Energy	Energy	Gap		
	demand (MW)	Met (MW)	(MW)	%	requirement (MU)	supplied (MU)	(MU)	(%)	
2014-15	1,48,166	1,41,160	-7,006,	-4.7%	10,68,923	10,30,785	-38,138	-3.6%	
2015-16	1,53,366	1,48,463	-4,903,	-3.2%	11,14,408	10,90,850	-23,558	-2.1%	
2016-17	1,59,542	1,56,542	-991,	-1.6%	11,42,928	11,35,332	-7,596	-0.7%	

LOK SABHA UNSTARRED QUESTION NO.3125 ANSWERED ON 03.08.2017

POWER PURCHASE AGREEMENT

3125. SHRIMATI RITA TARAI:

Will the Minister of POWER be pleased to state:

- (a) whether power is no more a scarce commodity in the present scenario and is available on exchanges at an instantly agreed rate;
- (b) if so, the details thereof;
- (c) whether it has become virtually difficult and even unpredictable to know the power rate over a longer period of time and if so, the details thereof;
- (d) whether the risk borne by the States like Odisha entering into 25 years PPA becomes too high to handle on account of volatility of power prices in the long run, if so, the details thereof; and
- (e) whether his Ministry proposes to consider necessary modification for signing of the PPAs between the Generator and Beneficiary for a period of 5 years (not for 25 years) with provision for review after 5 years, if so, the details thereof and the time-frame for the same?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) & (b): Yes, Madam, power is no more a scarce commodity. The peak and energy shortages have progressively reduced over the year and were at 1.6% and 0.7% respectively in the year 2016-17. Price discovered on exchanges follows principles of demand and supply. The price and quantum of electricity to be transacted is determined through a double sided closed auction bidding process on exchanges. The details of Power Supply position and Peak Demand/Peak met of the states for the month of June, 2017 as per the Central Electricity Authority report is attached at Annexure-I. The rates prevalent on the Power Exchanges as per the Central Electricity Regulatory Commission (CERC) Market Monitoring Cell report are attached at Annexure-II.

.....2.

- (c): In the case of long term PPAs under cost plus approach, the tariff is governed by certain pre-specified factors in the Regulations of the Appropriate Commission, which is generally determined annually. In case of long term PPAs based on tariff based competitive bidding; the year to year tariff is based on adjustments based on pre-specified indices on escalable components. In case of short term contracts, the rate of power is unpredictable only because the rate fluctuates significantly according to the demand and supply during the period.
- (d) & (e): State Distribution Companies are expected to manage their power purchase portfolio to optimize power purchase cost and risks using various power purchase agreement (PPAs) under Long Term (upto 25 years), Medium term (more than 1 Year upto 5 years) and Short Term (upto 1 year) for which adequate provisions already exists under the Model Bidding Documents notified under section 63 of the Electricity Act, 2003.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (d) OF UNSTARRED QUESTION NO. 3125 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Energy Power Supply Position Report (Revised)

Figures in MU net

		- 0047	Figures in MU net						
	May,2017				April,2017 to May,2017				
State/System/ Region	Energy Requirement	Energy Supplied	Energ Supp	jy not lied	Energy Requirement	Energy Supplied		rgy not plied	
Chandigarh	174	174	0	0.0	308	308	0	0.0	
Delhi	3,375	3,373	3	0.1	5,985	5,981	4	0.1	
Haryana	4,649	4,649	0	0.0	8,301	8,301	0	0.0	
Himachal Pradesh	803	799	4	0.5	1,572	1,564	8	0.5	
Jammu & Kashmir	1,597	1,274	323	20.2	3,104	2,478	626	20.2	
Punjab	5,004	5,004	0	0.0	8,541	8,541	0	0.0	
Rajasthan	6,015	5,927	88	1.5	11,271	11,172	99	0.9	
Uttar Pradesh	11,055	10,935	120	1.1	20,819	20,600	219	1.1	
Uttarakhand	1,226	1,221	5	0.4	2,307	2,301	6	0.3	
Northern Region	33,900	33,357	542	1.6	62,207	61,244	963	1.5	
Chhattisgarh	2,271	2,271	0	0.0	4,782	4,782	0	0.0	
Gujarat	9,853	9,853	0	0.0	19,793	19,793	0	0.0	
Madhya Pradesh	5,544	5,544	0	0.0	10,876	10,876	0	0.0	
Maharashtra	14,145	14,112	33	0.2	28,300	28,249	51	0.2	
Daman & Diu	217	217	0	0.0	424	424	0	0.0	
Dadra & Nagar Haveli	518	518	0	0.0	1,024	1,024	0	0.0	
Goa	356	356	0	0.0	724	724	o	0.0	
Western Region	32,905	32,872	33	0.1	65,923	65,872	51	0.1	
Andhra Pradesh	4,984	4,979	5	0.1	10,026	10,019	7	0.1	
Telangana	4,422	4,421	2	0.0	9,414	9,410	4	0.0	
Karnataka	5,455	5,453	2	0.0	11,684	11,679	5	0.0	
Kerala	2,232	2,228	3	0.1	4,505	4,500	5	0.1	
Tamil Nadu	9,599	9,596	3	0.0	19,043	19,035	8	0.0	
Puducherry	244	244	0	0.1	480	480	0	0.0	
Lakshadweep #	4	4	0	0	8	8	0	0	
Southern Region	26,936	26,920	16	0.1	55,154	55,123	31	0.1	

Bihar	2,325	2,219	107	4.6	4,443	4,260	183	4.1
DVC	1,770	1,762	7	0.4	3,519	3,510	9	0.3
Jharkhand	658	656	2	0.4	1,337	1,330	7	0.5
Odisha	2,556	2,555	1	0.0	5,056	5,054	2	0.0
West Bengal	4,827	4,799	28	0.6	9,533	9,477	56	0.6
Sikkim	37	37	0	0.0	74	74	0	0.0
Andaman- Nicobar	20	15	5	25	40	30	10	25.0
Eastern Region	12,174	12,029	145	1.2	23,962	23,707	255	1.1
Arunachal Pradesh	64	63	1	1.9	126	124	2	1.6
Assam	756	714	42	5.6	1,404	1,321	83	5.9
Manipur	63	62	1	1.9	123	121	2	1.6
Meghalaya	129	129	0	0.0	253	253	0	0.0
Mizoram	44	43	1	2.0	86	85	1	1.2
Nagaland	68	67	1	1.6	128	126	2	1.6
Tripura	264	260	4	1.5	490	480	10	2.0
North-Eastern Region	1,389	1,339	50	3.6	2,610	2,510	100	3.8
All India	107,304	106,517	787	0.7	209,856	208,455	1,401	0.7

[#] Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of Regional requirement and availability.

Peak Power Supply Position Report (Revised)

Figures in MW net

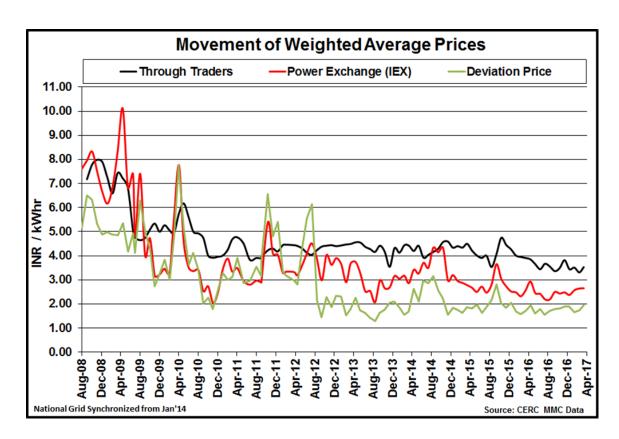
State		May,2017			April,2017 to May,2017			
System	Peak Demand	Peak Met	Dem not I		Peak Demand	Peak Met	Dem not	
Region	(MW)	(MW)	(MW)	(%)	(MW)	(MW)	(MW)	(%)
Chandigarh	340	340	0	0.0	340	340	0	0.0
Delhi	6,021	6,021	o	0.0	6,021	6,021	0	0.0
Haryana	7,780	7,780	0	0.0	7,780	7,780	0	0.0
Himachal Pradesh	1,349	1,349	0	0.0	1,349	1,349	0	0.0
Jammu & Kashmir	2,668	2,134	534	20.0	2,668	2,134	534	20.0
Punjab	8,229	8,229	0	0.0	8,229	8,229	o	0.0
Rajasthan	10,305	10,305	0	0.0	10,305	10,305	o	0.0
Uttar Pradesh	18,646	17,819	827	4.4	18,646	17,819	827	4.4
Uttarakhand	1,992	1,992	0	0.0	1,992	1,992	0	0.0
Northern Region	52,517	51,820	697	1.3	52,517	51,820	697	1.3
Chhattisgarh	3,737	3,713	24	0.6	3,888	3,887	1	0.0
Gujarat	15,325	15,325	0	0.0	15,325	15,325	0	0.0
Madhya Pradesh	8,227	8,227	0	0.0	8,402	8,402	0	0.0
Maharashtra	21,874	21,778	96	0.4	22,542	22,494	48	0.2
Daman & Diu	339	339	0	0.0	339	339	0	0.0
Dadra & Nagar Haveli	768	768	0	0.0	768	768	0	0.0
Goa	505	504	1	0.1	558	557	1	0.2
Western Region	49,208	49,048	160	0.3	49,860	49,788	72	0.1
Andhra Pradesh	7,914	7,882	32	0.4	7,914	7,882	32	0.4
Telangana	7,412	7,396	16	0.2	9,009	9,001	8	0.1
Karnataka	9,376	9,358	17	0.2	9,992	9,987	5	0.1
Kerala	3,889	3,837	52	1.3	3,889	3,862	27	0.7
Tamil Nadu	14,749	14,743	6	0.0	15,001	14,975	26	0.2
Puducherry	379	379	o	0.0	388	387	0	0.1
Lakshadweep#	8	8	o	0	8	8	0	0
Southern Region	41,127	40,885	242	0.6	42,770	42,535	235	0.5

4,122	4,021	101	2.5	4,122	4,021	101	2.5
2,684	2,684	0	0.0	2,684	2,684	0	0.0
1,211	1,211	0	0.0	1,211	1,211	0	0.0
4,208	4,208	0	0.0	4,227	4,227	0	0.0
7,515	7,495	20	0.3	7,820	7,793	27	0.3
78	78	0	0.0	91	91	0	0.0
40	32	8	20	40	32	8	20
19,149	19,032	117	0.6	19,238	19,191	47	0.2
145	145	0	0.2	145	145	0	0.2
1,649	1,580	69	4.2	1,649	1,580	69	4.2
163	161	2	1.2	163	161	2	1.2
304	304	0	0.1	304	304	0	0.1
86	85	1	8.0	86	85	1	0.8
132	131	1	0.4	132	131	1	0.4
280	276	4	1.4	280	276	4	1.4
2,472	2,391	81	3.3	2,472	2,391	81	3.3
159,816	156,733	3,083	1.9	159,816	158,393	1,423	0.9
	2,684 1,211 4,208 7,515 78 40 19,149 145 1,649 163 304 86 132 280 2,472	2,684 2,684 1,211 1,211 4,208 4,208 7,515 7,495 78 78 40 32 19,149 19,032 145 1,580 163 161 304 304 86 85 132 131 280 276 2,472 2,391	2,684 2,684 0 1,211 1,211 0 4,208 4,208 0 7,515 7,495 20 78 78 0 40 32 8 19,149 19,032 117 145 145 0 1,649 1,580 69 163 161 2 304 304 0 86 85 1 132 131 1 280 276 4 2,472 2,391 81	2,684 2,684 0 0.0 1,211 1,211 0 0.0 4,208 4,208 0 0.0 7,515 7,495 20 0.3 78 78 0 0.0 40 32 8 20 19,149 19,032 117 0.6 145 145 0 0.2 1,649 1,580 69 4.2 163 161 2 1.2 304 304 0 0.1 86 85 1 0.8 132 131 1 0.4 280 276 4 1.4 2,472 2,391 81 3.3	2,684 2,684 0 0.0 2,684 1,211 1,211 0 0.0 1,211 4,208 4,208 0 0.0 4,227 7,515 7,495 20 0.3 7,820 78 78 0 0.0 91 40 32 8 20 40 19,149 19,032 117 0.6 19,238 145 145 0 0.2 145 1,649 1,580 69 4.2 1,649 163 161 2 1.2 163 304 304 0 0.1 304 86 85 1 0.8 86 132 131 1 0.4 132 280 276 4 1.4 280 2,472 2,391 81 3.3 2,472	2,684 2,684 0 0.0 2,684 2,684 1,211 1,211 0 0.0 1,211 1,211 4,208 4,208 0 0.0 4,227 4,227 7,515 7,495 20 0.3 7,820 7,793 78 78 0 0.0 91 91 40 32 8 20 40 32 19,149 19,032 117 0.6 19,238 19,191 145 145 0 0.2 145 145 1,649 1,580 69 4.2 1,649 1,580 163 161 2 1.2 163 161 304 304 0 0.1 304 304 86 85 1 0.8 86 85 132 131 1 0.4 132 131 280 276 4 1.4 280 276 2,472 2,391 81 3.3 2,472 2,391 <td>2,684 2,684 0 0.0 2,684 2,684 0 1,211 1,211 0 0.0 1,211 1,211 0 4,208 0 0.0 4,227 4,227 0 7,515 7,495 20 0.3 7,820 7,793 27 78 78 0 0.0 91 91 0 40 32 8 20 40 32 8 19,149 19,032 117 0.6 19,238 19,191 47 145 145 0 0.2 145 145 0 1,649 1,580 69 4.2 1,649 1,580 69 163 161 2 1.2 163 161 2 304 304 0 0.1 304 304 0 86 85 1 0.8 86 85 1 132 131 1 0.4 132 131 1 280 276 4 1.4</td>	2,684 2,684 0 0.0 2,684 2,684 0 1,211 1,211 0 0.0 1,211 1,211 0 4,208 0 0.0 4,227 4,227 0 7,515 7,495 20 0.3 7,820 7,793 27 78 78 0 0.0 91 91 0 40 32 8 20 40 32 8 19,149 19,032 117 0.6 19,238 19,191 47 145 145 0 0.2 145 145 0 1,649 1,580 69 4.2 1,649 1,580 69 163 161 2 1.2 163 161 2 304 304 0 0.1 304 304 0 86 85 1 0.8 86 85 1 132 131 1 0.4 132 131 1 280 276 4 1.4

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

State/ Region	Energy/Demand Cut
Northern Region	
Northern Region	
Chandigarh*	
Delhi	No Notified Cuts
Haryana	No Notified Cuts
Himachal Pradesh	No Notified Cuts
Jammu & Kashmir*	
Punjab	No Notified Cuts
Rajasthan	No Notified Cuts
Uttar Pradesh	No Notified Cuts
Uttarakhand	No Notified Cuts
Western Region	
Chhattisgarh	No Notified Cuts
Gujarat	No Notified Cuts
Madhya Pradesh	No Notified Cuts
Maharashtra	No Notified Cuts
Goa	No Notified Cuts
Southern Region	
Andhra Pradesh	No Notified Cuts
Telangana	No Notified Cuts
Karnataka	No Notified Cuts
Kerala	No Notified Cuts
Tamil Nadu	No Notified Cuts
Puducherry	No Notified Cuts
Eastern Region	
Bihar	No Notified Cuts
Jharkhand	No Notified Cuts
Odisha	No Notified Cuts
West Bengal	No Notified Cuts

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (d) OF UNSTARRED QUESTION NO. 3125 TO BE ANSWERED IN THE LOK SABHA ON 03.08.2017.



Source: CERC Market Monitoring Cell report

CERC notifies the Average Power Purchase cost(APPC) at the National level by computing the average of APPC of all States and Union Territories, weighted by volume of conventional power purchased by the respective State/UT. CERC order dated 25.1.2016, for "Determination of Average Power Purchase Cost (APPC) at the national level(Petition No. 15/SM/2015) prescribed the National APPC as Rs 3.40/kWh.

LOK SABHA UNSTARRED QUESTION NO.3130 ANSWERED ON 03.08.2017

ELECTRIFICATION OF REMOTE/BACKWARD AREAS

3130. SHRI GAURAV GOGOI:
SHRI JYOTIRADITYA M. SCINDIA:

Will the Minister of POWER be pleased to state:

- (a) whether the Union Government has since taken any steps for electrification of villages situated in backward and remote areas of the country through new and renewable energy sources;
- (b) if so, the details in this regard and the details of funds released by the Union Government to various States/UTs during the last three years; and
- (c) the present target of the Union Government to electrify villages in backward and remote areas of the country through new and renewable energy sources and the details of the steps to be taken to achieve it?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) to (c): Under Decentralized Distributed Generation (DDG) of Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), electricity access is provided to all the villages/habitations where grid connectivity is either not feasible or not cost effective including those situated in backward and remote areas of the country. This includes mini grid and standalone system.

Subsidy of Rs.246.84 crore was disbursed under DDG during the last three years i.e. 2014-15, 2015-16 & 2016-17. The State-wise details are furnished at Annexure.

Under DDG, 4,220 projects have been sanctioned with the project cost of Rs.1354.60 crore, in various States across the country, as on 30.6.2017. All the remaining unelectrified villages are targeted to be electrified by May, 2018.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 3130 ANSWERED IN THE LOK SABHA ON 03.08.2017.

State-wise capital subsidy released under DDG during the last three years 2014-15, 2015-16 and 2016-17

C. No		Subsidy amount
Sr. No	Name of the State	(Rs. in crore)
1	Andhra Pradesh	14.4025
2	Assam	81.6966
3	Chhattisgarh	96.1373
4	Karnataka	5.2974
5	Kerala	1.2439
6	Madhya Pradesh	10.5729
7	Rajasthan	24.6835
8	Uttarakhand	1.4834
9	Uttar Pradesh	11.3187
	Grand Total	246.8363

LOK SABHA UNSTARRED QUESTION NO.3160 ANSWERED ON 03.08.2017

SALE OF ELECTRICITY TO RAILWAYS AT A HIGHER PRICE

†3160. SHRIMATI VEENA DEVI:

Will the Minister of POWER be pleased to state:

- (a) whether an agreement has been signed to sell electricity to Indian Railways through Dabhol Power Project at the rate of Rs. 5.5 per unit upto next five years;
- (b) if so, the details thereof;
- (c) whether the said selling price of electricity is much higher than the selling prices applied to the other big buyers of electricity in the country;
- (d) if so, the facts thereof;
- (e) the reasons behind selling electricity at higher price; and
- (f) the reasons due to which the cost of power generation in Dabhol Project is higher than the average cost of power generation?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) to (f): Yes, Madam. Ratnagiri Gas & Power Pvt. Ltd. (RGPPL) has signed a Power Purchase Agreement (PPA) with Indian Railways for supply of 500 MW power at a fixed tariff of Rs.5.50 per unit for five years w.e.f 01.04.2017. The selling price of electricity by a power plant depends upon the cost of generation, which consists of the depreciation, the fuel cost, the O&M cost and the interest on capital etc. RGPPL is a gas based power plant. It was allocated 7.6 Million Metric Standard Cubic Meter per Day (MMSCMD) of domestic gas. However, due to non-availability of domestic gas, it is receiving only 0.6 MMSCMD of domestic gas. The balance requirement of gas is being met from imported Liquified Natural Gas (LNG), which is more expensive as compared to domestic gas.

LOK SABHA UNSTARRED QUESTION NO.3163 ANSWERED ON 03.08.2017

LOSSES OF DISCOMS

3163. SHRI SHIVKUMAR UDASI:

Will the Minister of POWER be pleased to state:

- (a) the details of the State DISCOMS which are running in loss;
- (b) whether UDAY is failing to bring in new dawn for the State-run power distribution sector; and
- (c) if so, the details thereof, and the details of the estimated targets and results achieved so far, State-wise?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a): As per 'Report on Performance of State Power Utilities' published by Power Finance Corporation (PFC) Ltd., the details of State DISCOMs which are running losses during the financial year 2014-15, are given at Annexure.
- (b) & (c): Interventions under UDAY including reduction in interest costs & cost of power and efficiency gains have yielded encouraging results.

The participating states have already issued Bonds of approximately Rs.2.32 Lakh Crore, which addresses 86% of the debt envisaged in Memorandum of Understanding (MoU) executed under UDAY. As per the unaudited data submitted by States, the participating states have achieved an improvement of 1.07% in Aggregate Technical & Commercial (AT&C) losses and Rs.0.13 a Unit in ACS-ARR gaps in FY 2017. However, different states have different trajectories since they have joined UDAY at different time.

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3163 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Details of State-wise and Utility-wise loss incurred for the year 2014-15

Region	State	Utility	Loss on subsidy
		_	received basis
			(Rs. in cr.)
Eastern	Bihar	NBPDCL	-491
		SBPDCL	-748
	Jharkhand	JBVNL	-37
	Odisha	CESU	-202
		NESCO	-123
		SESCO	-379
		WESCO	-224
	Sikkim	Sikkim PD	-126
North Eastern	Arunachal Pradesh	Arunachal PD	-257
	Assam	APDCL	-578
	Meghalaya	MePDCL	-202
	Mizoram	Mizoram PD	-192
	Nagaland	Nagaland PD	-315
	Tripura	TSECL	-82
Northern	Haryana	DHBVNL	-636
		UHBVNL	-1,481
	Himachal Pradesh	HPSEB Ltd.	-125
	Jammu & Kashmir	J&K PDD	-3,913
	Punjab	PSPCL	-1,100
	Rajasthan	AVVNL	-3,593
		JDVVNL	-4,146
		JVVNL	-4,735
	Uttar Pradesh	DVVN	-2,936
		KESCO	-168
		MVVN	-1,994
		Pash VVN	-1,577
		Poorv VVN	-2,000
	Uttarakhand	Ut PCL	-260
Southern	Andhra Pradesh	APEPDCL	-722
		APSPDCL	-1,827
	Karnataka	GESCOM	-110
	Kerala	KSEBL	-1,273
	Tamil Nadu	TANGEDCO	-12,757
	Telangana	TSNPDCL	-1,741
		TSSPDCL	-1,171
Western	Chhattisgarh	CSPDCL	-1,569
	Goa	Goa PD	-17
	Madhya Pradesh	MP Madhya Kshetra VVCL	-2,765
	-	MP Paschim Kshetra VVCL	-1,061
		MP Purv Kshetra VVCL	-1,175
	Maharashtra	MSEDCL	-366

Source: PFC

LOK SABHA UNSTARRED QUESTION NO.3173 ANSWERED ON 03.08.2017

DISTRIBUTION OF LED

3173. SHRI RAJESH KUMAR DIWAKER: SHRI VINOD KUMAR SONKAR:

Will the Minister of POWER be pleased to state:

- (a) the percentage of target for distribution of LED bulbs under UJALA Scheme remains to be achieved, State/UTwise;
- (b) the details of checks done by Government to ensure adherence to the quality specifications of LED bulbs that are being distributed;
- (c) the details of criteria adopted for distribution of LED bulbs under the UJALA scheme initiated by the Government keeping in view the shortage of power in the country;
- (d) the States of the country wherein LED bulbs are being distributed on upfront payment and un-bill finance scheme;
- (e) the companies which are distributing LED bulbs in Uttar Pradesh and the district-wise number of centres in Uttar Pradesh;
- (f) whether any complaints have been received against any company regarding not taking interest in LED bulb distribution and excessive charging and if so, the Statewise details of the action taken against such companies; and
- (g) the States where power supply has been augmented as a result of use of LED bulbs?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a): Unnat Jyoti by Affordable LED for All (UJALA) scheme was launched on 5th January 2015 to provide LED bulbs to domestic consumers with a target to replace 77 crore incandescent bulbs with LED bulbs by March, 2019. No States/UTs wise targets have been set. As on 1st August, 2017, EESL has distributed 25.28 crore LED bulbs throughout the country, the State/UT-wise details are given at Annexure-I. In addition, the private sector has also sold 41.44 crore LED bulbs upto June, 2017.

- (b): EESL's procurements conform to BIS specification IS 16102 (Part 2): 2012 for performance requirements of self-ballast lamps. Further, these bulbs carry a 3 year free replacement warranty against technical defects. There are stringent quality checks to ensure the quality of LED bulbs.
- (c): There is no shortage of power in the country, rather the country has surplus electricity capacity at present to meet the current requirements. Besides, at present, India is net exporter of electricity to Nepal and Bangladesh.

Under the UJALA Scheme, EESL aggregates the demand and procures LED bulbs through competitive bidding process to get the lowest price compared to retail market. The consumers, having metered connection, can acquire LED bulbs from designated distribution centres set up at various locations across the Country.

- (d): LED bulbs are being distributed on upfront payment basis and on-bill finance scheme in 36 States and UTs across India under UJALA scheme.
- (e): The name of the companies which are distributing LED bulbs in Uttar Pradesh and number of LED distribution centres District-wise in the state of Uttar Pradesh are given at Annexure-II.
- (f): No specific complaints have been received regarding excessive charging and lack of interest by distributing agencies under UJALA scheme. EESL has deployed field monitoring staff to take care of such issues, if any.
- (g): As on 1st August, 2017, EESL has distributed over 25.28 crore LED bulbs in 36 States and UTs across India. This alone has resulted in estimated energy savings of more than 32.84 billion kWh per year with avoided peak demand of 6575 MW and GHG emission reduction of 26.60 Million tonnes CO₂ per year. In addition, there are savings due to sale of LED bulbs by the private sector.

The State/UT-wise estimated energy savings is given at Annexure-I.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (g) OF UNSTARRED QUESTION NO. 3173 ANSWERED IN THE LOK SABHA ON 03.08.2017.

01	04 - 4 /117 -	N. CLED	F-4"41 F	
SI.	States/UTs	No. of LED	Estimated Energy	Estimated
No.		bulbs	Saved per	avoided peak
		distributed	year(MUs)	demand(MW)
1	Andaman Nicobar	4,00,000	52.00	10.39
2	Andhra Pradesh	2,16,77,316	2,818.02	563.04
3	Arunachal Pradesh	8,985	0.41	0.08
4	Assam	15,31,046	199.04	39.77
5	Bihar	1,39,36,861	1,806.39	360.92
6	Chandigarh	2,35,859	30.66	6.13
7	Chhattisgarh	84,60,396	1,089.87	217.76
8	Dadra &Nagar Haveli	1,35,667	17.64	3.52
9	Daman & Diu	1,35,924	17.67	3.53
10	Delhi	1,16,15,917	1,507.74	301.25
11	Goa	8,20,333	106.64	21.31
12	Gujarat	3,59,88,490	4,671.01	933.27
13	Haryana	1,26,63,682	1,639.07	327.49
14	Himachal Pradesh	76,27,735	991.61	198.12
15	Jammu and Kashmir	76,89,954	999.69	199.74
16	Jharkhand	1,01,88,680	1,324.11	264.56
17	Karnataka	1,65,04,010	2,138.93	427.36
18	Kerala	1,01,19,390	1,315.52	262.84
19	Lakshadweep	1,00,000	13.00	2.60
20	Madhya Pradesh	1,40,20,204	1,814.84	362.61
21	Maharashtra	2,12,92,816	2,768.07	553.06
22	Manipur	19,965	2.60	0.52
23	Meghalaya	2,48,608	31.71	6.34
24	Mizoram	5,28,624	68.25	13.64
25	Nagaland	4,59,769	59.77	11.94
26	Odisha	1,07,68,272	1,395.46	278.81
27	Puducherry	6,09,251	79.20	15.82
28	Punjab	1,18,191	14.91	2.98
29	Rajasthan	1,36,22,341	1,768.22	353.29
30	Sikkim	1,05,148	13.67	2.73
31	Tamil Nadu	4,97,119	61.81	12.35
32	Telangana	13,40,472	172.89	34.54
33	Tripura	5,71,570	74.30	14.85
34	Uttar Pradesh	1,96,68,086	2,543.85	508.26
35	Uttarakhand	38,61,511	499.79	99.86
36	West Bengal	52,88,707	678.43	135.55
	Total	25,28,60,899	32,846.78	6,575.81

ANNEXURE REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 3173 ANSWERED IN THE LOK SABHA ON 03.08.2017.

A. List of companies which are distributing LED bulbs in Uttar Pradesh.

SI. No.	Distribution Agency/DISCOM for Uttar Pradesh
1	Alankit Ltd.
2	Amar Construction
3	Community Works Welfare Society
4	Medas Consultancy Services Limited
5	RBS Multisolution Pvt. Ltd.
6	Zephyr Limited
7	MadhyanchalVidyutVitaran Nigam Ltd.(MVVNL)
8	Kanpur Electric Supply Co. Ltd. (KESCO)
9	PaschimanchalVidyutVitaran Nigam Ltd.(PAVVNL)
10	DakshinachalVidyutVitaran Nigam Ltd.(DVVNL)
11	PurvanchalVidyutVitaran Nigam Ltd.(PUVVNL)

B. Number of LED distribution centres District-wise in the State of Uttar Pradesh

SI. No.	District/zone	No. of distribution centre
1	Agra zone	5
2	Aligarh	11
3	Allahabad zone	11
4	Amethi	5
5	Amroha (J P Nagar)	7
6	Auraiya	6
7	Azamgarh	5
8	Badaun	5
9	Bagpat	11
10	Ballia	5
11	Banda	5
12	Barabanki	1
13	Basti zone	5
14	Bijnor	7
15	Bulandshahar	6
16	Chandauli	3
17	Chitrakoot	3
18	Deoria	3
19	Etah	3
20	Etawah	6
21	Faizabad	5
22	Farrukhabad	5
23	Fatehpur	4

S. No.	District/zone	No. of distribution centre
24	Ghaziabad	20
25	Ghazipur	3
26	Gorakhpur zone	5
27	Hamirpur	2
28	Hapur	2
29	Hardoi	3
30	Hathras	2
31	Jalaun	3
32	Jaunpur	3
33	Jhansi	6
34	Kannauj	5
35	Kanpur	51
36	Kanpur dehat	5
37	Kasganj	3
38	Kausambhi	3
39	Kushinagar	8
40	Lakhimpur	2
41	Lalitpur	3
42	Lucknow	63
43	Maharajganj	9
44	Mahoba	4
45	Mainpuri	6
46	Mathura	5
47	Mau	4
48	Meerut	10
49	Mirzapur	5
50	Moradabad	6
51	Muzaffarnagar	4
52	Noida	3
53	Pilibhit	6
54	Pratapgarh	4
55	Rampur	4
56	Saharanpur	5
57	Sambhal	13
58	Santkabirnagar	3
59	Santravidasnagar(Bhadoi)	2
60	Shahjahanpur	15
61	Shamli	3
62	Siddharthnagar	3
63	Sitapur	2
64	Sonbhadra	2
65	Sultanpur	5
66	Unnao	2
67	Varanasi	11

LOK SABHA UNSTARRED QUESTION NO.3178 ANSWERED ON 03.08.2017

ULTRA MEGA POWER PROJECTS

+3178. SHRI JAGDAMBIKA PAL:

Will the Minister of POWER be pleased to state:

- (a) the present status of Ultra Mega Power Projects (UMPPs) in the country and the quantum of electricity generated / likely to be generated therefrom, Project-wise;
- (b) the details of norms prescribed by the Government to allot electricity generated by UMPPs to various States; and
- (c) whether any Memorandum of Understanding (MoU) has been signed with the States for this purpose and if so, the details thereof?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a): Four UMPPs, viz, Sasan in Madhya Pradesh, Mundra in Gujarat, Krishnapatnam in Andhra Pradesh and Tilaiya in Jharkhand have been awarded to the successful bidders so far. Mundra and Sasan UMPP have been fully commissioned. The status of awarded UMPPs is furnished at Annex-I. Quantum of power generation by commissioned UMPPs is furnished at Annex-II.
- (b): The allocation of Power from UMPPs is decided by the Central Government in consultation with the States Governments. Up to 50% power is allocated to lead procurer i.e. the state in which UMPP is located. Further, power allocation is based on location of project in particular region, power deficit, availability of transmission infrastructure and equity contribution in Special Purpose Vehicle (SPV), proportionate to power allocation to that particular state etc.
- (c): No, Madam.

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3178 ANSWERED IN THE LOK SABHA ON 03.08.2017.

STATUS OF AWARDED ULTRA MEGA POWER PROJECTS

SI. No	Name of UMPP	Location	Status
1	Sasan UMPP (6x660 MW)	Sasan in District Singrauli. Madhya Pradesh	Project awarded and transferred to M/s. Reliance Power Ltd. on 07.08.2007. Project is fully commissioned.
2	Mundra UMPP (5x800 MW)	Mundra in village Tundawand in District Kutch, Gujarat	Project awarded and transferred to M/s. Tata Power Ltd. on 24.04.2007. Project is fully commissioned.
3	Krishnapatna m UMPP (6x660 MW)	Krishnapatnam in District Nellore, Andhra Pradesh	The Project awarded and transferred to M/s. Reliance Power Ltd. on 29.01.2008. The developer has stopped work at site, citing new regulation of coal pricing in Indonesia. The procurers have issued termination notice. The matter is subjudice.
4	Tilaiya UMPP (6x660 MW)	Near Tilaiya village in Hazaribagh and Koderma Districts, Jharkhand	Project awarded and transferred to M/s Reliance Power Ltd on 07.08.2009. The developer (Jharkhand Integrated Power Ltd) has issued notice of termination of Power Purchase Agreement on 28.4.2015.

ANNEX-II

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3178 ANSWERED IN THE LOK SABHA ON 03.08.2017.

Quantum of power generation by commissioned UMPPs

Name of	Monitored			Generation	in Million L	Jnits (MUs)		
the UMPP	Capacity as							2017-18
	on 31.07.2015	2011-12	2012-13	2013-14	2014-15	2015-16		(April –
	MW						2016-17	June)
Mundra UMPP	4000	179.86	12440.39	23927.8	26577.6	25679.75	27460.24	5310.5
Sasan UMPP	3960	-	-	2938.95	17273.83	31262.34	29414.72	7530.59

LOK SABHA UNSTARRED QUESTION NO.3185 ANSWERED ON 03.08.2017

UDAY

3185. DR. SHRIKANT EKNATH SHINDE: SHRI VINAYAK BHAURAO RAUT: SHRI NAGENDRA KUMAR PRADHAN:

Will the Minister of POWER be pleased to state:

- (a) whether the Ujwal Discom Assurance Yojana is being implemented for State discoms;
- (b) if so, the details thereof and the salient features thereof;
- (c) whether the scheme has set the year wise targets for reduction in AT&C losses as well as reduction in ACS-ARR gap;
- (d) if so, the details thereof; and
- (e) the State-wise details of reduction in AT&C losses and ACS-ARR gap since the launch of this scheme?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) & (b): The Government has launched the scheme Ujjwal DISCOM Assurance Yojana (UDAY) on 20-11-2015 to improve financial and operational efficiencies of state owned Power Distribution Companies (DISCOMs). The scheme is optional for the States to join. UDAY aims to reduce the burden of interest, cost of power and Aggregate Technical & Commercial (AT&C) losses. The scheme also seeks to reduce the gap between Average Cost of Supply (ACS) and Average Revenue Realized (ARR) to zero as per defined trajectories.

.....2.

So far, Twenty Six (26) States and one (01) UT namely Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Punjab, Rajasthan, Sikkim, Tamil Nadu, Telangana, Tripura, Uttar Pradesh, Uttarakhand and Puducherry have signed the Memorandum of Understanding (MoU) with the Ministry of Power (MoP) under UDAY.

- (c) & (d): All the States/UT, who have signed MoUs under UDAY, have undertaken to reduce the ACS-ARR gap and AT&C losses as per agreed trajectories. Details are given at Annexure-I & II respectively.
- (e): The performance of the operational parameters i.e. Aggregate Technical & Commercial (AT&C) losses and Average Cost of Supply- Average Revenue Realized (ACS-ARR) Gap achieved under UDAY as updated by participating states are given at Annexure-III & IV respectively.

ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 3185 ANSWERED IN THE LOK SABHA ON 03.08.2017.

ACS-ARR GAP TO BE REDUCED AS PER THE AGREED TRAJECTORY IN THE Mou

SI.								
NO.	STATE	DISCOM	FY15	FY16	FY17	FY18	FY19	FY20
1.	Rajasthan	AJMER (AVVNL)		2.35	0.39	-0.15	-0.15	
		JODHPUR (JVVNL)		1.98	0.32	-0.11	-0.11	
		JAIPUR (JVVNL)		2.04	0.53	-0.11	-0.11	
2.	Uttar Pradesh	ALL DISCOMs		1.76	1.04	0.60	0.22	-0.06
		NORTH BIHAR				0.00	0	0.00
3.	Bihar	(NBPDCL)		1.79	1.25	0.80	0.48	-0.07
		SOUTH BIHAR						
		(SBPDCL)		2.00	1.39	0.85	0.34	-0.24
	Jammu &							
4.	Kashmir			2.41	0.68	0.71	0.49	-0.09
5.	Haryana	UHBVNL/DHBVNL		0.81	0.83	0.51	0.12	-0.02
6.	Jharkhand	JBVNL		3.16	1.99	0.99	0.00	
7.	Uttarakhand	UPCL		0.07	0.04	-0.01	-0.03	
8.	Punjab	PSPCL		0.43	0.37	0.04	-0.09	
9.	Gujarat	All DISCOMs		-0.03	-0.04	-0.04	-0.06	
10.	Chhattisgarh	CSPDCL		0.35	-1.21	-0.34	-0.52	
	Andhra	APEPDCL		0.31	0.10	0.01	-0.02	
11.	Pradesh	APSPDCL		0.53	0.28	0.00	-0.03	
12.	Goa	Goa-ED			0.75	0.20	-0.15	
13.	Karnataka	All DISCOMs(Combined)		0.10	0.00	-0.01	-0.00	
14.	Manipur	MSPDCL			1.68	0.64	-0.36	
	Madhya	All DISCOMs						
15.	Pradesh	(combined)		0.65	0.34	0.16	0.03	-0.10
16.	Puducherry	Puducherry-ED		0.00	0.00	0.00	0.00	
17.	Maharashtra	MSEDCL		0.50	0.36	0.01	-0.39	
18.	Sikkim			2.58	0.70	0.39	-0.09	
19.	Meghalaya				0.83	0.61	0.35	-0.01
20.	Tripura				0.05	0.04	0.03	-0.01
	Arunachal							
21.	Pradesh			0.00	0.00	0.00	0.00	0.00
22.	Mizoram			0.00	0.00	0.00	0.00	0.00
23.	Kerala			0.16	0.26	-0.04	-0.06	
24.	Tamil Nadu			0.60	0.20	0.05	-0.07	
25.	Assam			0.66	0.43	0.19	-0.05	
26.	Himachal Pradesh			0.09	-0.04	-0.05	-0.05	
27.	Telangana	All DISCOMs(combined)		บ.บฮ	0.87	0.40	0.00	
41.	reiangana	All Discours(combined)			U.0 <i>1</i>	0.40	0.00	

ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 3185 ANSWERED IN THE LOK SABHA ON 03.08.2017.

AT&C LOSSES TO BE REDUCED AS PER THE AGREED TRAJECTORY IN THE Mou

SI.								
No.	State	DISCOM	FY15	FY16	FY17	FY18	FY19	FY20
1.	Rajasthan	AJMER (AVVNL)		24.00%	20.00%	17.5%	15.00%	
		JODHPUR (JVVNL)		22.4%	18.00%	16.5%	15.00%	
		JAIPUR (JVVNL)		27.50%	22.00%	18.5%	15.00%	
2.	Uttar Pradesh	All DISCOMs		32.36%	28.27%	23.63%	19.36%	14.86%
		NORTH BIHAR						
3.	Bihar	(NBPDCL)		40.00%	34.00%	28.00%	20.00%	15.00%
		SOUTH BIHAR						
		(SBPDCL)		44.00%	38.00%	30.00%	22.00%	15.00%
4.	Jammu & Kashmir			56.00%	46.00%	35.00%	25.00%	15.00%
5.	Haryana	UHBVNL/DHBVNL		28.05%	24.02%	20.04%	15.00%	
6.	Jharkhand	JBVNL		35.00%	28.00%	22.00%	15.00%	
7.	Uttarakhand	UPCL		17.00%	16.00%	15.00%	14.50%	
8.	Punjab	PSPCL		16.16%	15.30%	14.50%	14.00%	
		All DISCOMs						
9.	Gujarat	(combined)		14.50%	14.00%	13.50%	13.00%	
10.	Chhattisgarh	CSPDCL		21.00%	18.93%	18.00%	15.00%	
		APEPDCL			5.46%	5.45%	5.44%	
11.	Andhra Pradesh	APSPDCL			11.29%	11.09%	10.89%	
12.	Goa	Goa-ED		21.06%	18.75%	16.59%	15.00%	
		All DISCOMs						
13.	Karnataka	(combined)		15.37%	15.50%	15.00%	14.02%	
14.	Manipur	MSPDCL		44.20%	25.15%	18.70%	15.00%	
15.	Madhya Pradesh	All DISCOMs (combined)		26.27%	21.15%	19.15%	17.00%	15.00%
16.	Puducherry	Puducherry-ED		19.88%	19.00%	15.00%	12.00%	13.00 /6
17.	Maharashtra	MSEDCL		17.31%	16.74%	15.61%	14.39%	
18.	Sikkim			37.13%	29.50%	25.94%	15.00%	
19.	Meghalaya			36.50%	32.51%	27.50%	21.50%	15.00%
20.	Tripura			33.80%	30.00%	25.00%	20.00%	15.00%
21.	Arunachal Pradesh			57.74%	52.41%	43.00%	39.00%	25.00%
22.	Mizoram			32.17%	27.38%	23.76%	20.30%	15.00%
23.	Kerala			11.57%	11.45%	11.23%	11.00%	
24.	Tamil Nadu			14.58%	14.06%	13.79%	13.50%	
25.	Assam			22.49%	19.00%	17.75%	16.10%	15.00%
26.	Himachal Pradesh			13.85%	13.50%	13.00%	12.75%	
27.	Telangana	TSSPDCL			12.68%	11.30%	9.90%	
		TSNPDCL	1		11.90%	10.95%	10.00%	

ANNEXURE REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 3185 ANSWERED IN THE LOK SABHA ON 03.08.2017.

AT&C Loss

				FY 2016-17		
SI.	Parameter	Unit	FY 2015-16	Target	Achieve-	Reduction in
No.					ment	AT&C Loss
						over previous
						year
	All India Basis	(In %)	21.14	18.66	20.07	1.07
1	Himachal Pradesh	(In %)	12.92	13.25	4.15	8.77
2	Manipur	(In %)	44.21	28.89	36.89	7.32
3	Jharkhand	(In %)	34.71	28.38	29.90	4.81
4	Tripura	(In %)	20.94	30.00	16.61	4.33
5	Haryana	(In %)	29.83	24.03	25.69	4.14
6	Rajasthan	(In %)	27.27	23.09	23.81	3.46
7	Gujarat	(In %)	15.04	14.06	12.28	2.76
8	Uttarakhand	(In %)	17.19	15.99	14.50	2.69
9	Chhattisgarh	(In %)	21.79	18.93	19.34	2.45
10	Bihar	(In %)	43.74	36.42	41.75	1.99
11	Meghalaya	(In %)	36.48	32.51	34.87	1.61
12	Puducherry	(In %)	19.88	19.00	18.98	0.90
13	Maharashtra	(In %)	19.07	16.74	18.30	0.77
14	Goa	(In %)	17.12	14.49	16.79	0.33
15	Jammu & Kashmir	(In %)	61.6	46.00	61.34	0.26
16	Tamil Nadu	(In %)	14.38	14.02	14.53	-0.15
17	Telangana	(In %)	14.02	11.93	14.20	-0.18
18	Karnataka	(In %)	14.94	15.43	15.15	-0.21
19	Madhya Pradesh	(In %)	23.97	20.76	25.16	-1.19
20	Kerala	(In %)	16.03	11.57	17.28	-1.25
21	Andhra Pradesh	(In %)	9.41	9.26	10.96	-1.55
22	Punjab	(In %)	15.95	15.30	17.57	-1.62
23	Assam	(In %)	22.12	19.00	25.09	-2.97
24	Uttar Pradesh	(In %)	26.47	28.08	30.21	-3.74

Depicts the data of 24 states only on UDAY portal. Three states joined in February/March 17 are yet to submit the performance data.

ANNEXURE REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 3185 ANSWERED IN THE LOK SABHA ON 03.08.2017.

ACS-ARR GAP

				FY 2016-17		
SI. No.	Parameter	Unit	FY 2015-16	Target	Achievement	Reduction in ACS-ARR gap over previous year
	All India Basis	(In Rs./unit)	0.6	0.38	0.47	0.13
1	Manipur	(In Rs./unit)	1.31	0	0.1	1.21
2	Rajasthan	(In Rs./unit)	1.68	0.41	0.74	0.94
3	Goa	(In Rs./unit)	1.50	0.68	0.95	0.55
4	Jammu & Kashmir	(In Rs./unit)	2.55	0.68	2.15	0.40
5	Chhattisgarh	(In Rs./unit)	0.18	-1.21	-0.15	0.33
6	Himachal Pradesh	(In Rs./unit)	0.01	-0.04	-0.26	0.27
7	Tamil Nadu	(In Rs./unit)	0.60	0.20	0.36	0.24
8	Tripura	(In Rs./unit)	0.24	0.05	0.02	0.22
9	Andhra Pradesh	(In Rs./unit)	0.82	0.21	0.6	0.22
10	Uttar Pradesh	(In Rs./unit)	0.88	0.94	0.66	0.22
11	Telangana	(In Rs./unit)	0.75	0.82	0.64	0.11
12	Haryana	(In Rs./unit)	0.18	0.83	0.08	0.10
13	Madhya Pradesh	(In Rs./unit)	0.92	0.34	0.86	0.06
14	Maharashtra	(In Rs./unit)	0.24	0.30	0.22	0.02
15	Gujarat	(In Rs./unit)	-0.02	-0.02	-0.03	0.01
16	Puducherry	(In Rs./unit)	0.03	0.19	0.07	-0.04
17	Uttarakhand	(In Rs./unit)	0.10	0.03	0.14	-0.04
18	Bihar	(In Rs./unit)	0.65	1.32	0.71	-0.06
19	Meghalaya	(In Rs./unit)	1.71	0.83	1.81	-0.10
20	Punjab	(In Rs./unit)	0.60	0.02	0.71	-0.11
21	Assam	(In Rs./unit)	0.48	0.66	0.65	-0.17
22	Jharkhand	(In Rs./unit)	1.22	1.63	1.48	-0.26
23	Karnataka	(In Rs./unit)	0.06	0.56	0.35	-0.29
24	Kerala	(In Rs./unit)	0.23	-0.26	0.53	-0.30

Depicts the data of 24 states only on UDAY portal. Three states joined in February/March 17 are yet to submit the performance data.

LOK SABHA UNSTARRED QUESTION NO.3193 ANSWERED ON 03.08.2017

NATIONAL ENERGY POLICY

3193. SHRI NINONG ERING: SHRI JYOTIRADITYA M. SCINDIA:

Will the Minister of POWER be pleased to state:

- (a) whether the NITI Aayog in its draft National Energy Policy has stressed the need to invest \$150 billion capital in the energy sector;
- (b) if so, the details thereof;
- (c) whether several thermal power projects which are under construction have been stalled due to capital crunch;
- (d) if so, the details thereof; and
- (e) the steps proposed to be taken by the Union Government to meet the challenge of capital crunch in the energy sector?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a) & (b): NITI Aayog in the draft National Energy Policy has indicated that "Capital requirement in the energy domain is the biggest challenge before the country. This is aggravated by high interest rates as compared to developed economies. A near \$150 billion capital investment is needed in energy sector on an annual basis until 2040 (International Energy Agency). This has to be met without impacting availability of capital in other sectors".
- (c) to (e): 17 number of under construction coal based thermal power projects aggregating to a capacity of 18,420 MW are stalled due to financial issues. The measures taken by the Government to address the financial issues in the power sector are as follows:
- (i) Ujwal DISCOM Assurance Yojana (UDAY) scheme for Financial and Operation Turn-around of power distribution utilities (DISCOMs) of the country.
- (ii) RBI has notified schemes such as (i) Scheme for Sustainable Structuring of Stressed Assets (S4A) and (ii) Strategic Debt Restructuring Scheme (SDR) for the revival of stressed assets.
- (iii) Due diligence and financial restructuring done by Banks to make projects viable would attract new promoters or states to bring in fresh equity investments.

LOK SABHA UNSTARRED QUESTION NO.3200 ANSWERED ON 03.08.2017

POLLUTION NORMS FOR THERMAL POWER STATIONS

†3200. SHRI LALLU SINGH:

Will the Minister of POWER be pleased to state:

- (a) whether Central Electricity Authority proposes to implement improved pollution norms in thermal power generation projects of the country from the year 2020 instead of 2017;
- (b) if so, the facts in this regard and the details of the proposals made by the above mentioned Authority; and
- (c) the reasons for changing earlier decision taken in this regard?

ANSWER

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

(SHRI PIYUSH GOYAL)

- (a) to (c): Many of the existing thermal power plants are not in a position to put in place the required technology by 7th December 2017 due to following reasons:
- (i) Time is required for Design and Engineering, approvals, arrangement of funds, tendering and erection, testing and commissioning. Implementation period of 24-36 months for installation of pollution control equipment is required by each unit.
- (ii) All the plants/units cannot be shut down simultaneously. Therefore, planned shut-down is required to ensure uninterrupted power supply in the country.
- (iii) To fully meet the Nitrogen Oxides (NOx) emission norms notified by Ministry of Environment, Forests & Climate Change (MoEF&CC), Selective Catalytic Reduction (SCR) or Selective Non-Catalytic Reduction (SNCR) system needs to be installed in some units. These technologies are not yet fully proved under indigenous conditions with high ash coal.

In view of the above, Central Electricity Authority (CEA) was entrusted with the responsibility of preparing a plan for implementation of new environmental norms issued by Ministry of Environment, Forests & Climate Change (MoEF&CC) in December 2015, keeping in view the power demand-supply position, time required to install pollution control equipments and available technological options. After consultation with Regional Power Committees and power utilities from Central/State/Independent Power Plants, an implementation plan for installation/upgradation of pollution control equipments in coal based thermal plants has been prepared.

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LOK SABHA UNSTARRED QUESTION NO.3204 ANSWERED ON 03.08.2017

COMPENSATION TO DISPLACED PERSONS

3204. SHRI RAYAPATI SAMBASIVA RAO:

Will the Minister of POWER be pleased to state:

- (a) whether there is any policy in regard to paying compensation to displaced/affected persons when a project under the Ministry comes up;
- (b) if so, the details thereof;
- (c) if not, the reasons therefor;
- (d) the quantum of compensation paid to the displaced/affected persons due to a project by NTPC, PGCIL; and
- (e) whether any cases of compensation to displaced /affected persons are pending, if so, the details thereof and the reasons therefor?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) & (e): Yes, Madam. Land acquisition for projects set up by PSUs under Ministry of Power is done as per the provisions of Government of India (GOI) Land Acquisition Act-1894/ Special Acts of respective States, National Policy on Resettlement and Rehabilitation for Project Affected Families – 2003 (NPRR-2003), the National Rehabilitation and Resettlement Policy, 2007 (NRRP-2007) and the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (RFCTLARR Act – 2013).

The land rates/compensation are decided by the concerned State Government/State Authority as per provisions of the prevailing Land Acquisition Act of Government of India / respective State Government.

NTPC has paid compensation of Rs.1763.28 crore for private land acquisition in respect of their 12 under construction projects. PGCIL has paid compensation of Rs.874.90 Crore for land acquisition in respect of their 69 projects since 2007.

As of now, total amount as demanded by State Administration has been deposited by NTPC and PGCIL and no case of compensation to displaced/affected persons are pending.

LOK SABHA UNSTARRED QUESTION NO.3211 ANSWERED ON 03.08.2017

LED STREET LIGHTS IN GRAM PANCHAYATS

3211. SHRI SATAV RAJEEV:

SHRI DHANANJAY MAHADIK: SHRIMATI SUPRIYA SULE: DR. J. JAYAVARDHAN: SHRI P.R. SUNDARAM:

Will the Minister of POWER be pleased to state:

- (a) whether the Government is implementing any scheme to promote the use of LED lights in place of conventional street lights in gram panchayats;
- (b) if so, objectives and details of the scheme;
- (c) the difficulties/challenges being faced by the Government in the implementation of the scheme;
- (d) the steps taken by the Government to overcome such difficulties;
- (e) whether there is any improvement in the related indices after the implementation of the scheme, if so, the details thereof including the State-wise distribution of the related indices; and
- (f) whether the Government is undertaking any other policies for promoting the retrofitting of conventional street lights with LED lights in gram panchayats, if so, the details thereof?

ANSWER

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

(SHRI PIYUSH GOYAL)

(a) & (b): The Hon'ble Prime Minister, on 5th January 2015, launched Street Lighting National Programme (SLNP) to replace conventional street lights with smart and energy efficient LED street lights by March 2019. The programme is being implemented by Energy Efficiency Services Limited (EESL), a joint venture company of Public Sector Undertakings (PSUs), under Ministry of Power. 554 Urban Local Bodies (ULBs) have been enrolled by EESL for implementation of SLNP.

Based on the experience gained in implementation of SLNP, EESL has entered into a Tripartite Agreement with Department of Panchayat Raj and Rural Development, Government of Andhra Pradesh and Andhra Pradesh State Energy Efficiency Development Corporation to replace 10 lakh conventional street lights with LED street lights in Gram Panchayats of 7 districts (Guntur, Prakasam, Nellore, Kurnool, Kadapa, Anantapur and Chittoor) in Andhra Pradesh.

The objectives of the scheme are to promote the use of efficient lighting in rural areas to reduce energy consumption and to improve security and safety with better lighting.

- (c) & (d): No significant difficulties/challenges are being faced in implementation of SLNP.
- (e): The replacement of 10 lakh conventional street lights with LED street lights in Gram Panchayats of 7 districts in Andhra Pradesh will result in an estimated energy savings of 147 million units and reduction in Green House Gas (GHG) emission of 120 million tonnes of CO₂.
- (f): Ministry of Panchayati Raj, Government of India has requested the States to issue instructions to make LED based lighting mandatory in the buildings of Gram Panchayats and affiliated offices and all community lighting projects funded by Government /Panchayats.

Further, the Ministry of Power has also requested all State Governments as well as all Ministries/Departments of the Central Government to issue necessary instructions to make the installation of LED based lighting mandatory in all Government buildings as well as in all community lighting projects funded by the Government.

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