LOK SABHA STARRED QUESTION NO.63 ANSWERED ON 07.02.2019

SAUBHAGYA

*63. SHRI C.N. JAYADEVAN:

Will the Minister of POWER be pleased to state:

- (a) whether any assessment has been made regarding the progress in the implementation of the Pradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) which was launched in September, 2017 with the aim to provide access to electricity to all remaining households in the country; and
- (b) if so, the details thereof?

ANSWER

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

(SHRI R.K. SINGH)

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

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) & (b) OF STARRED QUESTION NO.63 ANSWERED IN THE LOK SABHA ON 07.02.2019 REGARDING SAUBHAGYA.

(a) & (b): As reported by the States more than 2.47 crore households have been electrified up to 27.01.2019, since launch of Saubhagya scheme. The scheme envisages electrifying the remaining un-electrified households by 31st March, 2019.

LOK SABHA STARRED QUESTION NO.73 ANSWERED ON 07.02.2019

ELECTRIFICATION OF VILLAGES

*73. SHRI MALLIKARJUN KHARGE:

Will the Minister of POWER be pleased to state:

- (a) whether an estimated 3.14 crore rural households are still without electricity and majority of such villages are in Bihar, Uttar Pradesh, Assam, Jharkhand, Odisha, etc.;
- (b) whether the Ministry has decided to electrify each household by April this year; and
- (c) if so, the details of roadmap prepared for execution of this project and the details of expenditure to be incurred for this purpose?

ANSWER

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

(SHRI R.K. SINGH)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO.73 ANSWERED IN THE LOK SABHA ON 07.02.2019 REGARDING ELECTRIFICATION OF VILLAGES.

(a) to (c): As informed by the States, there are 21.30 crore households in the country; of these 21.29 crore households have been electrified up to 27.01.2019. Remaining 83,015 un-electrified households are in Chhattisgarh and Rajasthan which are aimed for electrification by March, 2019.

Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – "Saubhagya" with an allocation of Rs. 16,320 crore in order to achieve universal household electrification by providing electricity connections to all remaining un-electrified households in rural and all poor households in urban areas by March, 2019. Under Saubhagya, Government of India gives funds to the States to the extent of 60% (85% for special category States) as grant and additional grant of 15% (5% for special category States) if milestones are met.

LOK SABHA STARRED QUESTION NO.77 ANSWERED ON 07.02.2019

HYDRO-ELECTRIC PROJECTS

*77. SHRI DEVUSINH CHAUHAN:

Will the Minister of POWER be pleased to state:

- (a) the details of the hydro-electric projects in operation and the quantum of hydro-power generated by each of the projects during the last three years, State-wise;
- (b) whether the Government has assessed the potential of the North-Eastern States for generation of hydro-power;
- (c) if so, the details thereof along with the steps being taken by the Government to harness the potential;
- (d) whether the Central Electricity Authority has assessed the potential of Arunachal Pradesh for generation of hydro energy; and
- (e) if so, the details thereof including the projects proposed to tap the hydro-electric potential of the North- Eastern States along with the time by which these projects are likely to be operationalised?

ANSWER

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

(SHRI R.K. SINGH)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO.77 ANSWERED IN THE LOK SABHA ON 07.02.2019 REGARDING HYDRO-ELECTRIC PROJECTS.

(a): At present, 204 nos. of Hydro Electric Stations (above 25 MW) with total installed capacity of 45399.22 MW are in operation in the country. The state-wise details of Hydro Electric Stations (above 25 MW) in operation and the quantum of hydro power generated in the last three years and current year up to December, 2018 is enclosed at Annex-I.

(b) & (c): Yes, Madam.

As per the re-assessment study completed by Central Electricity Authority in 1987, the identified hydropower potential in the country was assessed as 1,48,701 MW [1,45,320 MW from Hydro Electric Projects (HEPs) above 25 MW capacity] which included 62604 MW of hydro potential in NE Region including 4248 MW in the state of Sikkim. The State-wise details of the identified potential in NE Region including Sikkim is given below:

Region/ State	Identified Cap	pacity (MW)	Capacity	Developed
			(ın op	eration)
	Total	Above 25 MW	(MW)	%
Sikkim	4286	4248	2169	51.06
NORTH EASTER	N REGION (NER)			
Meghalaya	2394	2298	322	14.01
Tripura	15	0	0	0.00
Manipur	1784	1761	105	5.96
Assam	680	650	350	53.84
Nagaland	1574	1452	75	5.17
Arunachal	50328	50064	515	1.03
Pradesh				
Mizoram	2196	2131	60	2.82
Sub Total	58971	58356	1427	2.45
(NER)				
NER + Sikkim	63257	62604	3596	5.74

Out of the identified hydro potential, 3596 MW have been developed and 9 H.E. Projects with aggregate capacity of 3877 MW are presently under construction in NE Region and Sikkim (Annex-II). Remaining HEPs are at various stages of allotment by State Governments, clearance and survey & investigation.

Steps taken by Govt. to harness the potential include the following:

- I) Hydro Power Policy- 2008 (including subsequent changes):
 - Transparent selection procedure/ criteria to be followed by the States for awarding sites to private developers.
 - 12 % free power given to the host State to ensure the support of State Government in execution of the project, viz, land acquisition, Rehabilitation & Resettlement, maintenance of law & order.
 - To enable the project developer (public as well as private sector hydro developers) to recover the costs incurred by him in obtaining the project site, the policy allows a special incentive to the developer by way of merchant sale of upto a maximum of 40% of the saleable energy.
 - An additional 1% free power from the project (over and above 12% free power earmarked for the host State) would be provided and earmarked for a Local Area Development Fund, aimed at providing a regular stream of revenue for income generation and welfare schemes, creation of additional infrastructure and common facilities etc. on a sustained and continued basis over the life of the project.
 - Developer to provide 100 units of electricity per month to each Project Affected Family - in cash or kind or a combination of both for 10 years from the COD.
- II) Tariff Policy, 2016 (Portions relevant to Hydropower)

Intent of Government for promotion of HEP emphasized in the objective of the Policy - "To promote HEP generation including PSP to provide adequate peaking reserves, reliable grid operation and integration of variable Renewable Energy (RE) sources".

- Hydropower to be excluded for estimating Solar Purchase Obligation.
- Enabling provision for suitable regulatory framework incentivizing the developers of HEPs for using long term financial instruments in order to reduce tariff burden in the initial years.
- Exemption from competitive bidding extended up to 2022.

.....3.

III) Time bound appraisal and monitoring:

- Time bound appraisal norms have been evolved for examination of DPRs in Central Electricity Authority (CEA). Appraisal of DPRs by respective appraising groups including convening of Concurrence/ Appraisal meeting by Secretary, CEA shall be completed in a period of 150 working days
- CEA is monitoring the progress of the under construction hydro projects regularly through frequent site visits, interaction with the developers and critical study of monthly progress reports.
- Regular review meetings are taken by Ministry of Power/ CEA with equipment manufacturers, State Utilities/ CPSUs/ Project developers, etc. to sort out the critical issues on Quarterly Basis.
- (d) & (e): Yes, Madam. The hydro-electric potential of Arunachal Pradesh is 50328 MW (50064 MW in respect of HE Scheme above 25MW). Out of the identified capacity, 2 HE projects, namely, Ranganadi (405 MW) and Pare (110 MW) aggregating to 515 MW are in operation in the State. Three HE projects, namely, Kameng (660 MW), Lower Subansiri (2000 MW) and Gongri (144 MW) are presently under construction in Arunachal Pradesh. The State Government has allotted 107 HEPs with aggregate capacity of 49386.5 MW, out of which 17 HEPs of 16952 MW have been cleared by CEA but yet to be taken up for implementation and 7 HEPs of 397 MW have been cleared by the State Government. These HEPs will take about 36 to 114 months' time for completion from the date of start of construction. Further 20 HEPs of capacity 12340.5 MW have been terminated /dropped by the State Government as per Basin study recommendations.

ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 77 ANSWERED IN THE LOK SABHA ON 07.02.2019 REGARDING HYDRO-ELECTRIC PROJECTS.

STATE-WISE HYDRO GENERATION (I.C. ABOVE 25 MW) IN THE COUNTRY FROM 2015-16 TO 2018-19 (UP TO 31.12.2018)

			INSTALLED	A	CTUAL GI	ENERATIO	N (MU)
SL. NO.	REGION/ STATE/ UTILITY/STATION	Developer	CAPACITY (AS ON 31.12.2018) (MW)	2015-16	2016-17	2017-18	2018-19 (UP TO 31.12.2018)
	HIMACHAL PRADESH			•			
1	Bhakra L	ВВМВ	594	5893	5168	5134	3132
2	Bhakra R	ВВМВ	785	0000	0100	0104	0102
3	Dehar	ВВМВ	990	3339	3185	3086	2734
4	Pong	ВВМВ	396	1735	1370	1642	1069
5	BairaSiul	NHPC	180	746	669	642	367
6	Chamera-I	NHPC	540	2624	2224	2344	2042
7	Chamera-II	NHPC	300	1524	1444	1487	1317
8	Chamera-III	NHPC	231	1044	917	1068	941
9	Parbati III	NHPC	520	643	682	711	608
10	NapthaJhakri	SJVN	1500	7314	7051	7208	5914
11	Rampur	SJVN	412	1983	1960	2015	1662
12	Kol Dam	NTPC	800	2309	3225	3314	2737
13	Integrated Kashang I	HPPCL	195		56	197	107
14	Sainj	HPPCL	100			135	379
15	Bassi	HPSEB LTD	66	316	298	315	212
16	Giri Bata	HPSEB LTD	60	189	141	170	169
17	Larji	HPSEB LTD	126	657	612	612	503
18	Sanjay	HPSEB LTD	120	0	187	493	529
19	Shanan	PSPCL	110	533	473	509	411
20	AllainDuhangan	Allain Duhangan Power Power Ltd.	192	725	679	683	548
21	Malana-II	Everest Power Private Ltd.	100	354	367	369	328
22	Baspa-II	JSW ENERGY	300	1305	1343	1337	1187
23	KarchamWangtoo	JSW ENERGY	1000	4726	4372	4570	3657
24	Budhil	GBHPPL	70	288	261	318	268
25	Chanju I	IA Energy Pvt. Ltd.(IAEPL)	36		11	79	124
26	Malana	Malana Power Company Ltd.(MPCL)	86	342	354	346	297
	Total H.P.	-	9809	38587	37050	38783	31243
	JAMMU & KASHMIR						
27	Chutak	NHPC	44	37	44	46	38
28	Dulhasti	NHPC	390	2361	2280	2344	1999
29	NimooBazgo	NHPC	45	91	95	99	74
30	Salal-I & II	NHPC	690	3591	3423	3247	2899

				1			
31	Sewa-II	NHPC	120	597	471	506	314
32	Uri -I	NHPC	480	3283	2803	2350	2305
33	Uri -II	NHPC	240	1196	1472	1207	1190
34	Kishenganga	NHPC	330			2	438
35	Baglihar	JKSPDC	450	3000	2185	2507	1909
36	Baglihar II	JKSPDC	450	56	1759	1822	1790
37	Lower Jhelum	JKSPDC	105	666	483	481	462
38	Upper Sindh II	JKSPDC	105	258	363	327	276
	Total Jammu &		3449	15136	15378	14938	13694
	Kashmir		0440	10100	10070	14300	10004
	PUNJAB	1		1		,	
39	Ganguwal	ВВМВ	78	852	847	494	445
40	Kotla	ВВМВ	78	002		508	452
41	A.P.Sahib I	PSPCL	67	669	674	648	344
42	A.P.Sahib II	PSPCL	67	003	0/4	040	
43	Mukerian I	PSPCL	45				
44	Mukerian II	PSPCL	45	1169	1084	1271	874
45	Mukerian III	PSPCL	58.50	. 109	1004	1211	3/7
46	Mukerian IV	PSPCL	58.50				
47	RanjitSagar	PSPCL	600	1957	1306	1803	1173
	Total Punjab		1096	4648	3911	4724	3287
	RAJASTHAN						
48	JawaharSagar	RRVUNL	99	349	308	261	132
49	Mahi Bajaj I	RRVUNL	50	166	210	180	47
50	Mahi Bajaj II	RRVUNL	90	100	210	100	47
51	R.P. Sagar	RRVUNL	172	518	449	378	166
	Total - Rajasthan		411	1034	966	820	345
	UTTAR PRADESH						
52	Khara	UPJVNL	72	321	269	259	221
53	Matatilla	UPJVNL	31	79	123	94	70
54	Obra	UPJVNL	99	160	217	300	152
55	Rihand	UPJVNL	300	375	567	834	371
	Total -UP		502	935	1176	1487	813
	UTTARAKHAND						
56	Dhauliganga	NHPC	280	1090	956	1153	1008
57	Tanakpur	NHPC	94	452	430	460	385
58	Tehri	THDC LTD	1000	3101	3146	3081	2411
59	Koteshwar	THDC LTD	400	1248	1225	1220	930
60	Chibro (Y.St.II)	UJVNL	240	814	714	784	669
61	Chilla	UJVNL	144	754	769	812	480
62	Dhakrani(Y.St.I)	UJVNL	34	137	120	130	119
63	Dhalipur (Y.St.I)	UJVNL	51	205	180	187	178
64	Khatima	UJVNL	41	120	180	213	188
65	Khodri (Y.St.II)	UJVNL	120	376	333	356	302
66	Kulhal (Y.St.IV)	UJVNL	30	139	122	124	117
67	ManeriBhali-I	UJVNL	90	487	349	395	372
68	ManeriBhali-II	UJVNL	304	1229	1252	1277	1166
69	Ram Ganga	UJVNL	198	503	181	251	84
70	Srinagar	AHPC LTD	330	901	1281	1383	1238
71	Vishnu Prayag	Jaiprakash Power Venture Ltd.	400	1211	2042	2161	1779
	Total Uttarakhand		3756	12766	13282	13984	11425

72	CHHATISGARH						
12	Hasdeo Bango	CSPGC	120	323	154	178	219
	Total						
ļ	Chhattisgarh		120	323	154	178	219
	GUJARAT						
73	Kadana PSS	GSECL	240	290	339	309	179
74	Ukai	GSECL	300	492	396	304	168
75	Sardar Sarovar CHPH	SSNNL	250	705	876	563	410
76	Sardar Sarovar RBPH	SSNNL	1200	1466	2333	377	0
	Total Gujarat		1990	2952	3944	1552	757
	MADHYA PRADES	H			1	T	T
77	Indira Sagar	NHDC	1000	1974	3321	882	958
78	Omkareshwar	NHDC	520	955	1428	444	452
79	Bansagar Tons-I	MPPGCL	315	574	1239	545	484
80	Bansagar Tons-II	MPPGCL	30	107	110	56	24
81	Bansagar Tons-	MPPGCL	60	40	53	69	85
82	Bargi	MPPGCL	90	328	445	159	305
83	Gandhi Sagar	MPPGCL	115	383	351	351	104
84	Madhikheda	MPPGCL	60	92	147	23	59
85	Rajghat	MPPGCL	45	37	62	58	58
	Total M.P.		2235	4491	7157	2587	2529
	MAHARASHTRA				T	Γ	
86	Bhira Tail Race	MAHAGENCO	80	74	102	97	75
87	Ghatghar PSS	MAHAGENCO	250	302	384	153	89
88	Koyna DPH	MAHAGENCO	36	136	156	135	147
89	KoynaSt.I&II	MAHAGENCO	600			1051	796
90	KoynaSt.III	MAHAGENCO	320	2840	3150	499	411
91	Koyna IV	MAHAGENCO	1000		400	945	984
92	Tillari	MAHAGENCO	60	44	106	58	78
93	Vaitarna	MAHAGENCO	60	123	154	205	90
94	Pench	MPPGPCL	160	379	360	160	118
95	Bhandardhara- II	(DLHPPL)	34	83	47	43	44
96	Bhira	Tata Power Company Ltd.	150	640	952	341	277
97	Bhira PSS	Tata Power Company Ltd.	150			551	437
98	Bhivpuri	Tata Power Company Ltd.	75	197	207	307	218
99	Khopoli	Tata Power Company Ltd.	72	261	307	316	269
	Total Maharashtra		3047	5079	5924	4861	4032
	ANDHRA PRADESI	<u> </u>			<u> </u>	<u> </u>	l .
100	N.J.Sagar TPD	APGENCO	50		7	42	42
101	N.J.Sagar RBC	APGENCO	90	0	4	60	91
102	Srisailam RB	APGENCO	770	206	641	575	550
103	Upper sileru I &	APGENCO	240	465	340	482	306
	Lower Sileru	APGENCO	460	1233	832	1110	739
104	LOWEI GIICIU						

	KARNATAKA						1
105	Almatti Dam	KPCL	290	145	404	442	399
106	Bhadra	KPCL	26	40	27	16	37
107	Gerusoppa	KPCL	240	303	277	281	386
108	Ghatprabha	KPCL	32	32	49	48	59
109	Jog	KPCL	139	318	288	191	149
110	Kadra	KPCL	150	220	176	193	299
111	Kalinadi	KPCL	855	1948	1345	1537	1879
112	Supa DPH	KPCL	100	325	239	291	396
113	Kodasali	KPCL	120	203	154	171	252
114	Lingnamakki	KPCL	55	119	106	126	171
115	Munirabad	KPCL	28	62	31	51	85
116	Sharavathy	KPCL	1035	2665	2709	2722	3328
117	Shivasamudram	KPCL	42	216	145	177	254
118	Varahi	KPCL	460	752	741	762	889
119	T.B.Dam	APGENCO	36				123
120	Hampi	APGENCO	36	129	81	134	13
	Total			-4			
	Karnataka		3644	7479	6772	7143	8718
	KERALA	•	<u> </u>				1
121	Idamalayar	KSEB Ltd.	75	273	172	256	264
122	ldukki	KSEB Ltd.	780	2372	1380	1611	2252
123	Kakkad	KSEB Ltd.	50	184	132	160	192
124	Kuttiadi	KSEB Ltd.	75				
125	KuttiadiExtn.	KSEB Ltd.	50	578	470	601	610
126	Kuttiady Additional Extn.	KSEB Ltd.	100	5/8	479	801	010
127	Lower Periyar	KSEB Ltd.	180	511	307	508	478
128	Neriamangalam	KSEB Ltd.	45	351	197	311	333
129	Pallivasal	KSEB Ltd.	38	219	166	188	151
130	Panniar	KSEB Ltd.	30	174	62	129	87
131	Poringalkuthu	KSEB Ltd.	32	160	91	117	86
132	Sabarigiri	KSEB Ltd.	300	1171	799	968	1296
133	Sengulam	KSEB Ltd.	48	161	116	145	94
134	Sholayar	KSEB Ltd.	54	210	167	205	143
	Total -Kerala		1857	6364	4067	5199	5986
	TAMIL NADU	T	T		ı	T	<u>, </u>
135	Aliyar	TANGEDCO	60	153	62	90	16.11
136	Bhawani K Barrage-III	TANGEDCO	30	157	21	0	27.68
137	Bhawani K Barrage-II	TANGEDCO	30	7	20	38	69.13
138	Bhawani K Barrage-I	TANGEDCO	30	6	17	17	62.22
139	Kadamparai PSS	TANGEDCO	400	413	289	384	359.95
140	Kodayar I	TANGEDCO	60	070	400	404	450
141	Kodayar II	TANGEDCO	40	279	169	124	159
142	Kundah I	TANGEDCO	60				
143	Kundah II	TANGEDCO	175				
144	Kundah III	TANGEDCO	180	1372	816	806	1306
145	Kundah IV	TANGEDCO	100				
146	Kundah V	TANGEDCO	40				
147	Lower Mettur I	TANGEDCO	30	223	92	132	189
148	Lower Mettur II	TANGEDCO	30	223	92	134	103

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149	Lower Mettur III	TANGEDCO	30	_			
150	Lower Mettur IV	TANGEDCO	30				
151	Mettur Dam	TANGEDCO	50	341	125	52	129
152	Mettur Tunnel	TANGEDCO	200			163	416
153	Moyar	TANGEDCO	36	104	62	94	134
154	Papanasam	TANGEDCO	32	117	67	115	87
155	Parson's Valley	TANGEDCO	30	26	24	27	44
156	Periyar	TANGEDCO	161	505	94	287	648
157	Pykara	TANGEDCO	59	57	13	1	22
158	Pykara Ultimate	TANGEDCO	150	281	193	274	427
159	Sarkarpathy	TANGEDCO	30	79	63	85	81
160	Sholayar I	TANGEDCO	70	264	228	158	165
161	Suruliyar	TANGEDCO	35	93	43	71	85
	Total Tamilnadu		2178	4474	2397	2920	4428
	TELANGANA						
162	Lower Jurala	TSGENCO	240	9	176	206	153.1
163	N.J.Sagar PSS	TSGENCO	816	88	186	184	241.8
164	N.J.Sagar LBC	TSGENCO	60	0	0	13	51.7
165	Pochampad	TSGENCO	36	0	75	36	25.9
166	PriyadarshniJurala	TSGENCO	234	30	212	217	165.0
167	Pulichinthala	TSGENCO	120	0	13	7	17.3
168	Srisailam LB	TSGENCO	900	155	617	829	947.5
	Total Telangana		2406	282	1280	1492	1602
	JHARKHAND			_		l	I
169	Panchet	DVC	80	69	134	142	76
170	Subernarekha I	JUUNL	65				
171	Subernarekha II	JUUNL	65	51	30	190	95
	Total Jharkhand		210	120	164	332	171
	ODISHA					l .	
172	Balimela	ОНРС	510	622	1001	1477	1463
173	Hirakud I	ОНРС					
174	Hirakud II	ОНРС	348	684	717	863	475
175	Rengali	ОНРС	250	599	554	763	783
176	Upper Indravati	ОНРС	600	1760	1522	1746	1667
177	Upper Kolab	ОНРС	320	767	619	707	716
178	Machkund	APGENCO	115	477	700	468	424
	Total -Odisha		2142	4910	5113	6023	5528
	SIKKIM	1					, -
179	Rangit	NHPC	60	345	347	346	309
180	Teesta-V	NHPC	510	2710	2773	2819	2411
		TeestaUrja Ltd.					
181	Teesta III	(TUL)	1200		309	4429	3785
		DANS Energy					
182	Jorethang Loop	Pvt. Ltd. (DEPL)	96	75	406	406	382
		Shiga Energy					
183	Tashiding	Pvt. Ltd.(SEPL)	97			73	390
		Gati					
184	Chuzachen HEP	Infrastructure	110	421	495	445	395
		Pvt. Ltd. (GIPL)					
185	Dikchu	Sneha Kinetic	96			370	439
	Total Sikkim		2169	3552	4330	8888	8112
<u> </u>	. Jta: Jinniiii	I	00	JUJE	-1000	3000	7112

	WEST BENGAL						
186	Teesta Low Dam-	NHPC	132	515	554	387	527
187	Teesta Low Dam-	NHPC	160	19	603	495	650
188	Maithon	DVC	63	108	122	114	93
189	Jaldhaka I	WBSEDCL	36	173	205	145	182
190	Purulia PSS	WBSEDCL	900	1065	1107	1014	822
191	Rammam II	WBSEDCL	50	254	248	122	210
	Total West Bengal		1341	2133	2839	2278	2484
	ARUNACHAL PRADI	ESH					
192	Ranganadi	NEEPCO	405	1280	1249	1417	1011
193	Pare	NEEPCO	110				329
	Total Arunachal		515	1280	1249	1417	1340
	ASSAM						
194	Kopili	NEEPCO	200	782	1088	1173	986
195	Khandong	NEEPCO	50	175	197	261	186
196	KarbiLangpi	APGCL	100	409	397	485	341
	Total Assam		350	1366	1682	1919	1513
	NAGALAND						
197	Doyang	NEEPCO	75	163	259	274	222
	Total Nagaland		75	163	259	274	222
	MANIPUR						
198	Loktak (Manipur)	NHPC	105	537	741	838	544
	Total Manipur		105	537	741	838	544
	MEGHALAYA						
199	Kyrdemkulai	MePGCL	60	118	65	132	113
200	Myntdu	MePGCL	126	444	392	502	354
201	New Umtru	MePGCL	40			160	161
202	UmiumSt.I	MePGCL	36	114	97	129	69
203	UmiumSt.IV	MePGCL	60	185	166	217	143
	Total Meghalaya		322	861	720	1140	840
	MIZORAM						
204	Tuirial	NEEPCO	60			78	156
	Total -Mizoram		60	0	0	78	156
	ALL INDIA		45399	121377	122378	126123	111719

ANNEX REFERRED TO IN PARTS (b) & (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 77 ANSWERED IN THE LOK SABHA ON 07.02.2019 REGARDING HYDRO-ELECTRIC PROJECTS.

Hydro Electric Projects (above 25 MW) - Under Construction in the North Eastern States

SI.No.	Name of Scheme (Executing Agency)	Sector	I.C. (No. × MW)	Cap. Under Execution (MW)	Latest Commissioning
	Arunachal Pradesh				
1	Kameng (NEEPCO)	Central	4x150	300.00	2018-19
				300.00	2019-20
2	Subansiri Lower (NHPC)	Central	8x250	2000.00	2022-23 *
3	Gongri(Dirang Energy)#	Private	2x72	144.00	2022-23 *
	Sub-total: Aruna	chal Prades	sh	2744.00	
	Sikkim				
4	Bhasmey (Gati Infrastructure)	Private	3x17	51.00	2021-22*
5	Rangit-IV (JAL Power)	Private	3x40	120.00	2021-22 *
6	Rangit-II (Sikkim Hydro)	Private	2x33	66.00	2020-21*
7	Rongnichu (Madhya Bharat)	Private	2x48	96.00	2019-20
8	Teesta St. VI (LANCO)	Private	4x125	500.00	2021-22 *
9	Panan (Himagiri)	Private	4x75	300.00	2022-23*
	Sub-total:	1133.00			
	Tota	ıl:		3877.00	
*	Stalled Projects. Commissionin	g date is su	bject to restart of	works	<u> </u>
#	Govt. of Arunachal Pradesh has	terminated	the MOU with the	developer	

LOK SABHA UNSTARRED QUESTION NO.701 ANSWERED ON 07.02.2019

POWER PRODUCTION

†701. SHRI RAHUL KASWAN:

Will the Minister of POWER be pleased to state:

- (a) whether the Government has made progress in area of power production in the country;
- (b) if so, the details thereof, State-wise including Rajasthan during the last three years;
- (c) whether the Government has formulated any special scheme to increase more power production; and
- (d) if so, the areas and States in which action plan of power production has been decided?

ANSWER

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

(SHRI R. K. SINGH)

- (a) & (b): Yes, Madam. The details of power generation from conventional fuel sources (Thermal, Hydro & Nuclear) from 25 MW & above capacity and renewable sources in the country, State-wise, including Rajasthan during the last three years & the current year 2018-19 (up to December 2018) are given at Annex-I & Annex-II respectively.
- (c) & (d): As on 31.12.2018, the installed generation capacity is about 349 Giga Watt (GW) which is more than sufficient to meet the peak power demand of the country of around 177 GW which occurred during the current year 2018-19 (upto December, 2018). Taking into account the future demand projections, generation capacity addition of 47,855 MW coal, 406 MW Gas, 6,823 MW Hydro and 3,300 MW Nuclear is projected to be commissioned during 2017-2022. The renewable energy capacity is also targeted to be 175 GW by 2021-22 on All India basis.

With these generation capacity additions, the electricity peak demand of 225 GW and energy requirement of 1566 BU projected for the year 2021-22 as per the 19th Electric Power Survey, will be fully met on All India basis.

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 701 ANSWERED IN THE LOK SABHA ON 07.02.2019.

State-wise Generation for conventional sources for Last 3 years and current year (upto December, 2018)

		Generation (in MU	s)	
State	2018-19 (upto-Dec. 18)	2017-18	2016-17	2015-16
ANDAMAN & NICOBAR	99.98	258.79	215.56	182.85
ANDHRA PRADESH	47281.46	61851.80	65248.16	58230.59
ARUNACHAL PRADESH	1339.98	1416.74	1249.01	1280.25
ASSAM	5381.26	5972.12	5981.37	4522.12
ВВМВ	7831.01	10864.14	10570.00	11818.9
				5244.21
Bhutan (IMP)	4322.12	4778.33	5617.34	
BIHAR	23730.92	28440.03	24514.85	20827.01
CHHATTISGARH	88645.95	110041.76	105686.18	89513.29
DELHI	6155.66	7048.70	6253.26	6206.1
DVC	26659.15	35950.56	33566.47	28029.93
GOA	0.00	0.00	0.00	0
GUJARAT	70320.77	96519.87	99748.61	104917.3
HARYANA	19520.77	26605.97	18890.44	22247.14
HIMACHAL PRADESH	23898.03	28412.65	26853.98	27087.49
JAMMU AND KASHMIR	13693.58	14937.56	15377.69	15136.15
JHARKHAND	10349.60	13997.33	14727.43	15933.67
KARNATAKA	35825.53	44668.81	43766.67	47553.25
KERALA	5987.57	5248.02	4130.61	6653.34
MADHYA PRADESH	90804.72	111333.00	98599.98	95740.5
MAHARASHTRA	103663.10	124308.77	118091.71	117244.4
MANIPUR	544.38	837.74	741.07	536.64
MEGHALAYA	1026.02	1401.03	916.70	1035.99
MIZORAM	156.14	78.37	0	0
NAGALAND	221.93	274.39	258.94	163.14
ODISHA	35151.63	46512.83	55841.18	57221.8
PUDUCHERRY	181.45	226.45	246.84	227.59
PUNJAB	23733.57	28958.56	26492.18	23342.89
RAJASTHAN	42092.22	51643.61	51792.17	53947.35
SIKKIM	8112.00	8887.99	4330.40	3551.92
TAMIL NADU	62711.84	82386.30	84581.68	76406.83
TELANGANA	37660.83	49913.97	43391.23	36868.2
TRIPURA	4873.95	5999.27	5873.89	5109.38
UTTAR PRADESH	94872.39	128542.28	120142.11	111329.5
UTTARAKHAND	12306.01	15606.60	14250.54	12765.92
WEST BENGAL	40777.11	52381.91	52192.69	46946.62
GRAND TOTAL	949932.63	1206306.25	1160140.94	1107822.26

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 701 ANSWERED IN THE LOK SABHA ON 07.02.2019.

State-wise generation from Renewable sources including Rajasthan during last three years and current year 2018-19 (upto December 2018)

No.						
2 Andnra Pradesh 11380.14 10597.47 5483.26 3106 3 Aruanchal Pradesh 1.28 0.70 27.43 18 4 Assam 16.57 24.49 14.15 90 5 Bihar 246.42 309.06 292.53 165 6 Chandigarh 11.56 7.87 13.16 3 7 Chhattisgarh 744.38 1069.21 1446.22 1202 8 Dadra and Nagar Haveli 3.89 5.23 1.31 0 9 Daman & Diu 13.09 18.53 14.43 4 10 Delhi 221.25 241.09 144.73 128 11 DVC 1.81 9.54 14.09 118 12 Gujarat 10666.47 11759.63 9497.99 8003 13 Haryana 479.62 560.70 449.54 1343 14 HP 2074.25 190.30 2015.58 1921 <td>_</td> <td>State/Utility</td> <td></td> <td>2017-18</td> <td>2016-17</td> <td>2015-16</td>	_	State/Utility		2017-18	2016-17	2015-16
3 Arunachal Pradesh	1	Andaman & Nicobar	18.12	19.65	20.03	18.72
Assam	2	Andhra Pradesh	11380.14	10597.47	5483.26	3106.61
5 Bihar 246.42 309.06 292.53 165 6 Chandigarh 11.56 7.87 13.16 3 7 Chhattisgarh 744.38 1069.21 1446.22 1202 8 Dadra and Nagar Haveli 3.89 5.23 1.31 0 9 Daman & Dlu 13.09 18.53 14.43 4 10 Delhi 221.25 241.09 144.73 128 11 DVC 1.81 9.54 14.09 118 12 Gujarat 10666.47 11759.63 949.79 8003 13 Haryana 479.62 560.70 449.54 1343 14 HP 2074.25 1993.05 2015.58 1921 15 J & K 260.89 324.37 326.12 304 16 Jharkhand 13.92 19.47 38.47 19 16 Jharkhand 13.92 19.47 38.47 19	3	Arunachal Pradesh	1.28	0.70	27.43	18.44
6 Chandigarh 11.56 7.87 13.16 3 7 Chhattisgarh 744.38 1069.21 1446.22 1202 8 Dadra and Nagar Haveli 3.89 5.23 1.31 0 9 Daman & Diu 13.09 18.53 1.4.4 4 10 Delhi 221.25 241.09 144.73 128 11 DVC 1.81 9.54 14.09 118 12 Gujarat 10666.47 11759.63 9497.99 8003 13 Haryana 479.62 560.70 449.54 1343 14 HP 2074.25 1903.05 2015.58 1921 15 J & K 260.89 324.37 326.12 304 16 Jharkhand 13.92 19.47 38.47 19 17 Karnataka 16479.89 13463.98 9585.68 10061 18 Kerala 618.85 774.32 562.72 618 19 Lakshadweep 0.94 1.79 1.59 1 20 Madhya Pradesh 5914.53 6292.90 5268.67 2910 21 Maharashtra 11186.39 1036.89 11292.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 NTPC Dadriff BD/Unchahar/ Singrauli/ Bhadla 475.43 517.56 507.71 434 30 NTPC Ramagundam/Mandsaur 414.18 381.99 82.21 81 Odisha 475.43 517.56 507.71 434 30 Oli India Ltd (Madhya Pradesh 864.23 7350.53 16 31 Odisha 475.43 51.55 2243.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.35 30.54 44.48 199.89 1027 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 463.28 1999.89 1027 170 Uttar Pradesh 3347.57 4606.29 3638.26 3201	4	Assam	16.57	24.49	14.15	90.94
7 Chhattisgarh 744.38 1069.21 1446.22 1202 8 Dadra and Nagar Haveli 3.89 5.23 1.31 0 9 Daman & Diu 13.09 18.53 1.43 4 10 Delhi 221.25 241.09 144.73 128 11 DVC 1.81 9.54 14.09 118 12 Gujarat 10666.47 11759.63 340.99 1903 13 Haryana 479.62 560.70 449.54 1343 14 HP 2074.25 1903.05 2015.58 1921 15 J & K 260.89 324.37 326.12 304 16 Jharkhand 13.92 19.47 38.47 19 17 Karnataka 16479.89 13463.98 9585.68 10061 18 Kerala 618.85 774.32 629.29 526.72 618 19 Lakshadweep 0.94 1.79 1.59	5	Bihar	246.42	309.06	292.53	165.11
8 Dadra and Nagar Haveli 3.89 5.23 1.31 0 9 Daman & Diu 13.09 18.53 14.43 4 10 Delhi 221.25 241.09 144.73 128 11 DVC 14.81 9.54 14.09 118 12 Gujarat 10666.47 11759.63 9497.99 8003 13 Haryana 479.62 560.70 449.54 1343 14 HP 2074.25 1903.05 2015.58 1921 15 J. & K 260.89 324.37 326.12 304 16 Jharkhand 13.92 19.47 38.47 19 17 Karnataka 16479.89 13463.98 9585.68 10061 18 Kerala 618.85 774.32 562.72 618 19 Lakshadweep 0.94 1.79 1.59 1 20 Madhya Pradesh 5914.53 6292.90 5268.67 2910 21 Maharashtra 11186.39 12036.98 11292.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh 89.08 251.25 227.20 193 33 Pulnjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 89.08 251.25 227.20 193 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4662.9 3638.26 3201	6	Chandigarh	11.56	7.87	13.16	3.40
9 Daman & Diu 13.09 18.53 14.43 4 10 Delhi 221.25 241.09 144.73 128 11 DVC 1.81 9.54 14.09 118 12 Gujarat 10666.47 11759.63 9497.99 8003 13 Haryana 479.62 560.70 449.54 1343 14 HP 2074.25 1903.05 2015.58 1921 15 J & K 260.89 324.37 326.12 304 16 Jharkhand 13.92 19.47 38.47 19 17 Karnataka 16479.89 13463.98 9585.68 10061 18 Kerala 618.85 774.32 562.72 618 19 Lakshadweep 0.94 1.79 1.59 1 20 Madhya Pradesh 5914.53 6292.90 5268.67 2910 21 Maharashtra 11186.39 12036.98 11292.70 10756 22 Manipur 0.88 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 449.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Dadrif/ED/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Raigarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 330.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh 86.91.90 89.01 50.01 10 33 Oil India Ltd (Rajasthan) 89.08 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4606.29 3638.26 3201	7	Chhattisgarh	744.38	1069.21	1446.22	1202.42
10 Delhi 221.25 241.09 144.73 128	8	<u> </u>	3.89	5.23	1.31	0.50
11 DVC		Daman & Diu	13.09	18.53	14.43	4.25
12 Gujarat	10	Delhi	221.25	241.09	144.73	128.97
13	11	DVC	1.81	9.54	14.09	118.26
14 HP 2074.25 1903.05 2015.58 1921 15 J & K 260.89 324.37 326.12 304 16 Jharkhand 13.92 19.47 38.47 19 17 Karnataka 16479.89 13463.98 9585.68 10061 18 Kerala 618.85 774.32 562.72 618 19 Lakshadweep 0.94 1.79 1.59 1 20 Madhya Pradesh 5914.53 6292.90 5268.67 2910 21 Maharashtra 11186.39 1203.69 11292.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 <tr< td=""><td>12</td><td>Gujarat</td><td>10666.47</td><td>11759.63</td><td>9497.99</td><td>8003.73</td></tr<>	12	Gujarat	10666.47	11759.63	9497.99	8003.73
15 J & K 260.89 324.37 326.12 304 16 Jharkhand 13.92 19.47 38.47 19 17 Karnataka 16479.89 13463.98 9585.68 10061 18 Kerala 618.85 774.32 562.72 618 19 Lakshadweep 0.94 1.79 1.59 1 20 Madhya Pradesh 5914.53 6292.90 5268.67 2910 21 Maharashtra 11186.39 12036.98 11292.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh 80.91 1797 1.71 1.17 0.34 0.34 33 Oil India Ltd (Rajasthan) 89.08 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0.34 0.35 0.35 0.35 3.3	13	Haryana	479.62	560.70	449.54	1343.15
16	-		2074.25		2015.58	1921.77
17 Karnataka 16479.89 13463.98 9585.68 10061 18 Kerala 618.85 774.32 562.72 618 19 Lakshadweep 0.94 1.79 1.59 1 20 Madhya Pradesh 5914.53 629.90 5268.67 2910 21 Maharashtra 11186.39 12036.98 11292.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 314.89 426.37	15	J&K	260.89	324.37	326.12	304.79
18 Kerala 618.85 774.32 562.72 618 19 Lakshadweep 0.94 1.79 1.59 1 20 Madhya Pradesh 5914.53 6292.90 5268.67 2910 21 Maharashtra 11186.39 12036.98 11192.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 8 NTPC Dadri/FBD/Unchahar/ Singrauli/ 388.07 480.99 74.90 42 29 NTPC Raigarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Raigarh/Raojmal/Mandsaur 414.18 3	16	Jharkhand	13.92	19.47	38.47	19.77
19	17	Karnataka	16479.89	13463.98		10061.03
20 Madhya Pradesh 5914.53 6292.90 5268.67 2910 21 Maharashtra 11186.39 12036.98 11292.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Oil India Ltd (Madhya Pradesh 191.97 191.97 22 32 Oil India Ltd (Rajasthan) <td< td=""><td>18</td><td>Kerala</td><td>618.85</td><td></td><td>562.72</td><td>618.78</td></td<>	18	Kerala	618.85		562.72	618.78
21 Maharashtra 11186.39 12036.98 11292.70 10756 22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Oil India Ltd (Madhya Pradesh 191.97 191.97 191.97 191.97 191.97 191.97 191.97 191.97 191.97 191.97 191.97 191.97 191.97 191.9		•		_		1.02
22 Manipur 0.89 0.15 0.01 0 23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & Gujrat) 191.97 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53						2910.42
23 Meghalaya 40.41 70.56 59.10 65 24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & Gujrat) 191.97 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53						10756.58
24 Mizoram 27.74 54.67 49.62 27 25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & 191.97 191.97 193 33 Oil India Ltd (Rajasthan) 89.08 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 948	-					0.00
25 Nagaland 78.86 91.00 92.73 88 26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & 191.97 193 490 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 T		<u> </u>	_		59.10	65.96
26 NEEPCO 36.97 6.71 6.89 6 27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18 28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & Gujrat) 191.97 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 50	24		27.74	54.67	49.62	27.62
27 NTPC Andaman/ Talcher 14.15 20.43 20.00 18						88.73
28 NTPC Dadri/FBD/Unchahar/ Singrauli/ Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & Gujrat) 191.97 2 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Prad	<u> </u>					6.15
28 Bhadla 388.07 480.99 74.90 42 29 NTPC Rajgarh/Raojmal/Mandsaur 414.18 381.99 82.21 81 30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & 191.97 89.08 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	27		14.15	20.43	20.00	18.91
30 NTPC Ramagundam/Anantapuram 314.89 426.37 350.53 16 31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & Gujrat) 191.97 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	28	1	388.07	480.99	74.90	42.41
31 Odisha 475.43 517.56 507.71 434 32 Oil India Ltd (Madhya Pradesh & Gujrat) 191.97 227.20 193 33 Oil India Ltd (Rajasthan) 89.08 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	29	NTPC Rajgarh/Raojmal/Mandsaur	414.18	381.99	82.21	81.00
32 Oil India Ltd (Madhya Pradesh & Gujrat) 191.97 33 Oil India Ltd (Rajasthan) 89.08 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	30	NTPC Ramagundam/Anantapuram	314.89	426.37	350.53	16.02
32 &Gujrat) 191.97 33 Oil India Ltd (Rajasthan) 89.08 251.25 227.20 193 34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	31	Odisha	475.43	517.56	507.71	434.45
34 Puducherry 1.71 1.17 0.34 0 35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	32	· •	191.97			
35 Punjab 1755.52 2343.87 2149.49 1474 36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	33	Oil India Ltd (Rajasthan)	89.08	251.25	227.20	193.67
36 Rajasthan 8544.53 9484.23 7973.85 6600 37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	34	Puducherry	1.71	1.17	0.34	0.00
37 Sikkim 23.53 30.54 35.78 41 38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	35	Punjab	1755.52	2343.87	2149.49	1474.20
38 Tamil Nadu 14705.30 16179.86 15153.87 9331 39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	36	Rajasthan	8544.53	9484.23	7973.85	6600.24
39 Telangana 5045.80 4632.28 1999.89 1027 40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	37	Sikkim	23.53	30.54	35.78	41.93
40 Tripura 30.52 44.48 46.47 18 41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	38	Tamil Nadu	14705.30	16179.86	15153.87	9331.47
41 Uttar Pradesh 3347.57 4606.29 3638.26 3201	39	Telangana	5045.80	4632.28	1999.89	1027.90
	40	Tripura	30.52	44.48	46.47	18.47
	41	Uttar Pradesh	3347.57	4606.29	3638.26	3201.49
42 Uttarakhand . 833.09 1184.50 999.19 703	42	Uttarakhand .	833.09	1184.50	999.19	703.42
43 West Bengal 1209.24 1590.54 1569.77 1608	43	West Bengal	1209.24	1590.54	1569.77	1608.15
Total 97923.70 101839.48 81548.21 65780		Total	97923.70	101839.48	81548.21	65780.85

LOK SABHA UNSTARRED QUESTION NO.728 ANSWERED ON 07.02.2019

GAS BASED POWER PLANTS

728. SHRI B.V. NAIK:

Will the Minister of POWER be pleased to state:

- (a) whether the Government is aware that several gas based power plants have been stranded;
- (b) if so, the details thereof and the reasons therefor, along with the action taken thereto;
- (c) whether any subsidies and tax concessions are being offered to those plants and if so, the details thereof;
- (d) whether the Government is now planning to revive 25 GW stranded gas based capacity to push consumption of the fuel and transform the nation into a gas based economy; and
- (e) the time by when a decision in the matter will be taken?

ANSWER

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

(SHRI R. K. SINGH)

- (a) & (b): A total of 14305 MW gas based power generation capacity is stranded in the country due to non-availability of domestic gas. The details of these gas-based power plants are furnished at Annexure.
- (c): There is no Customs duty on import of Liquefied Natural Gas (LNG) and Natural Gas (NG), if it is used for generation of electrical energy by a generating company as defined in section 2(28) of the Electricity Act, 2003 (36 of 2003) to supply electrical energy or to engage in the business of supplying electrical energy to the grid.
- (d) & (e): Gas based power plants are free to import the Liquefied Natural Gas (LNG), generate power and sell it to the consumers. Ministry of Petroleum and Natural Gas (MoP&NG) have 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 the future and as per prevailing MoP&NG's guidelines.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 728 ANSWERED IN THE LOK SABHA ON 07.02.2019.

STRANDED GAS BASED CAPACITY (ALL INDIA)

	T	I			
SI.				Installed	
No	Name of Project	Sector	Developer	Capacity	State
				(MW)	
1	GAUTAMI CCPP	P	GVK Gautami Power Ltd	464	ANDHRA PRADESH
2	GMR - KAKINADA	P	GMR Energy	220	ANDHRA PRADESH
	(Tanirvavi)	r	Gillik Ellergy	220	ANDIIKA PKADESII
3	JEGURUPADU CCPP	P	GVK Indutries Ltd	220.5	ANDHRA PRADESH
4	KONASEEMA CCPP	P	Konaseema Power	445	ANDHRA PRADESH
5	KONDAPALLI EXTN CCPP	Р	Lanco Power	366	ANDHRA PRADESH
-	•	_			_
6	VEMAGIRI CCPP	P	GMR Energy	370	ANDHRA PRADESH
7	SRIBA INDUSTRIES	P	PCIL Power & Holdings Limited	30	ANDHRA PRADESH
8	RVK ENERGY	P	RVK Energy	28	ANDHRA PRADESH
9	SILK ROAD SUGAR	P	SILK ROAD SUGAR	35	ANDHRA PRADESH
10	LVS POWER	P	LVS Power	55	ANDHRA PRADESH
11	GMR VEMAGIRI EXP	P		768	ANDHRA PRADESH
12		P	GMR Energy Lanco Power	742	
	KONDAPALLI EXP ST-III	-			ANDHRA PRADESH
13	SAMALKOT EXP	P	Reliance Infra	2400	ANDHRA PRADESH
14	CCGT BY PANDURANGA	P	Panduranga Energy	116	ANDHRA PRADESH
15	PRAGATI CCGT-III	S	Pragati Power Corporation Ltd	750	DELHI
16	RITHALA CCPP	Р	NDPL	108	DELHI
			Gujarat State Electricity	110	
17	DHUVARAN CCPP(GSECL)	S	Corporation Ltd	112	GUJARAT
			Gujarat State Electricity		
18	UTRAN CCPP(GSECL)	S	Corporation Ltd	374	GUJARAT
			GSPC Pipavav Power		
19	PIPAVAV CCPP	S	Company Ltd	702	GUJARAT
	DUUN/ADAM CODD		Gujarat State Electricity	270.0	CULADAT
20	DHUVARAN CCPP	S	Corporation Ltd	376.3	GUJARAT
64			Gujarat State Energy		CULADAT
21	HAZIRA CCPP EXT	S	Generation Ltd	351	GUJARAT
22	VATWA CCPP*	Р	Torrent Power	100	GUJARAT
23	ESSAR CCPP	Р	Essar Power	300	GUJARAT
24	UNOSUGEN CCPP	P	Torrent Power	382.5	GUJARAT
25	DGEN Mega CCPP	Р	Torrent Power	1200	GUJARAT
	RATNAGIRI (RGPPL-				
26	DHABHOL)	С	NTPC	1967	MAHARASHTRA
	CCGT BY PIONEER GAS	_			
27	POWER LTD	P	Pioneer Gas Power Ltd	388	MAHARASHTRA
28	GAS ENGINE BY ASTHA	P	Astha Power	35	TELENGANA
	KASHIPUR SRAVANTHI ST-	_			
29	1&11	P	Sravanthi Energy	450	UTTARKHAND
30	BETA INFRATECH CCGT	Р	Beta Infratech	225	UTTARKHAND
31	GAMA INFRAPROP CCGT	P	Gama Infraprop	225	UTTARKHAND
	TOTAL			14305	
	i e				

C: Central Sector; S: State Sector; P: Private Sector;

^{*} Vatwa CCPP was retired in 2015-16

LOK SABHA UNSTARRED QUESTION NO.729 ANSWERED ON 07.02.2019

AVERAGE CONSUMPTION OF COAL

729. SHRI M. CHANDRAKASI:

Will the Minister of POWER be pleased to state:

- (a) the total number of coal based thermal power plants in the country as on date and their average per day consumption/ requirement of coal for their operations;
- (b) the average coal stock availability for these plants in terms of coal availability for number of operative days at present; and
- (c) the steps being taken to increase coal and coal stock availability for thermal power plants?

ANSWER

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

(SHRI R. K. SINGH)

- (a): The total number of coal based thermal power plants in the country as on 31.12.2018 is 175. Based on the generation target for the year 2018-19, the daily average coal requirement of these power plants is 1.79 Million Tonnes (MT)/day. During April-December, 2018, the average consumption by these power plants was 1.72 MT/day.
- (b): As on 31st December, 2018, the total coal stock available with these power plants was 21.66 MT. Based on their average consumption of 1.72 MT/day, the average coal stock availability in terms of number of days is about 13 days.

.....2.

- (c): Government have taken the following steps to increase coal and coal stock availability for thermal power plants:
- i. The availability of coal is being regularly monitored closely to ensure that generation of power plant is not affected due to shortage of coal.
- ii. Coal Blocks have been allotted to central/state power utilities to improve domestic coal availability.
- iii. The Government has introduced a scheme SHAKTI (Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India)-2017, to provide coal linkages to the power plants which do not have any linkage.
- iv. The Government has introduced flexibility in utilization of domestic coal amongst power generating stations to reduce the cost of power generation. The State/Central Gencos would have flexibility to utilize their coal in optimum and cost effective manner in their own power plants as well as by transferring coal to other State/Central/IPPs Power plants for generation of cheaper power. This ensures availability of coal to efficient plants.

LOK SABHA UNSTARRED QUESTION NO.770 ANSWERED ON 07.02.2019

DEMAND AND SUPPLY

770. SHRI RAJESHBHAI CHUDASAMA:

Will the Minister of POWER be pleased to state:

- (a) the status of power generation and demand supply in the country and the details of the sources and their capacity in total power production in the country at present; and
- (b) the sources from which carbon- free power would be generated in the next ten years and the quantum of power production fixed for these sources and the details of measures taken in this regard?

ANSWER

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

(SHRI R. K. SINGH)

- (a): The details of source wise power generation and their capacity in total power production in the country during the current year 2018-19 (upto December, 2018) and the status of demand and supply of power in the country are given at Annex.
- (b): Hydro, Nuclear and Renewable Energy (including Solar, Wind and Biomass) are main sources from which carbon free power would be generated in the next ten years.

Generation of electricity is a delicensed activity and decision to set up any generating plants is based on a demand assessment by the concerned generator. Hence no target has been fixed in the next ten years. However, to promote clean energy Government of India has fixed a target of 175 GW of renewable energy based generation capacity by 2022.

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The details of steps being taken by the Government to promote the production of renewable energy, inter alia, are as under:

- i. Fixed a target of 175 GW renewable energy based generation capacity, out of which 100 GW would be solar power.
- ii. Issued guidelines for procurement of solar and wind power through tariff based competitive bidding process;
- iii. Declared Renewable Purchase Obligation (RPO) up to the year 2018-19;
- iv. Declare Renewable Generation Obligation on new coal/lignite based thermal plants;
- v. Notified National Offshore Wind Energy Policy;
- vi. Notified policy for Re-powering of Wind Power Projects;
- vii. Notified standards for deployment of solar photovoltaic systems/devices;
- viii. Issued order for waiving inter State Transmission System charges and losses for inter-State sale of solar and wind based power projects to be commissioned by December, 2019 and March 2019 respectively.

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 770 ANSWERED IN THE LOK SABHA ON 07.02.2019.

Source wise generation and capacity in total power production in the country during the current year 2018-19 (Upto December, 2018)

Category	Capacity (MW)	Generation (MU)
THERMAL	2,23,027.34	8,05,433.52
NUCLEAR	6,780.00	28,457.54
HYDRO	45,399.22	1,16,041.57 *
RES	74,081.66	97,923.70
Grand Total	3,49,288.22	10,47,856.33
Grand Total	3,49,288.22	10,47,856

Note: Generation from stations of 25 MW & above only

The demand and supply of power in the country during April-December, 2018*

Energy (Million Unit)			Peak (Mega Watt)				
Energy Requirement	Energy Supplied	Energy Supp		Peak Demand	Peak Met	Demai Me	
MU	MU	MU	%	MW	MW	MW	%
971,490	965,589	5,901	0.6	177,022	175,528	1,494	0.8

^{*}Provisional

^{*} Includes Bhutan Import

LOK SABHA UNSTARRED QUESTION NO.777 ANSWERED ON 07.02.2019

CEA

777. SHRIMATI SANTOSH AHLAWAT:

Will the Minister of POWER be pleased to state:

- (a) whether the Government has asked the Central Electricity Authority (CEA) to develop norms regarding "establishment cost" of power distribution companies (discoms), if so, the details thereof and if not, the reasons therefor;
- (b) whether Government is going to ask the CEA to prepare the norms, if so, the details thereof;
- (c) whether due to massive capacity addition in the power sector, there will be nearly double the amount of electricity available than the requirement of the State by 2021-22, if so, the details thereof along with the Government Plan to deal with the surplus power; and
- (d) whether Government is planning to provide subsidy through DBT in consumers Bank Account, if so, the details thereof and the States who have agreed on DBT of subsidiary to the Consumers?

ANSWER

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

(SHRI R. K. SINGH)

- (a) & (b): Government of India has requested Central Electricity Authority (CEA) to work out norms for establishment of DISCOMs with a view to streamline their cost of operations and administrative expenses.
- (c): As per the National Electricity Plan (NEP) 2018, to meet the peak demand of 225GW by FY 2021-22, the likely installed capacity, including Renewables would be 479GW.

The capacity created would be sufficient and adequate to meet the demands.

(d): A state government can give subsidy to any class of consumers, to the extent they consider appropriate as per provision of Section 65 of the Electricity act, 2003. Draft amendment to Tariff Policy, circulated for stakeholder consultations on 30.5.2018 includes provision for subsidy through Direct Benefit Transfer (DBT).

LOK SABHA UNSTARRED QUESTION NO.798 ANSWERED ON 07.02.2019

HYDRO POWER PROJECTS

798. SHRI PINAKI MISRA:

Will the Minister of POWER be pleased to state:

- (a) whether Hydro power projects with the capacity to generate a total of 12 GW power are under construction in the country, if so, the details thereof;
- (b) whether 16 of these Hydro power projects with a capacity to generate 5950 MW of power are stalled due to financial constraints and other reasons; and
- (c) whether the Government is planning to come up with a Hydro policy in the near future, if so, the details thereof?

ANSWER

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

(SHRI R. K. SINGH)

- (a) & (b): As on 31.01.2019, there are 37 Under Construction Hydro Power Projects (above 25 MW) in the country, with an installed capacity of 12178.50 MW. The details of these projects are given at Annex. Out of these 37 under construction Hydro Power Projects, 14 Hydro Power Projects aggregating to 4850 MW are stalled / held up due to financial constraints and other reasons.
- (c): Proposals on measures to make the hydro sector viable are under examination in this Ministry.

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 798 ANSWERED IN THE LOK SABHA ON 07.02.2019.

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

(As on 31.01.2019)

SI.	Name of Scheme	Sector	Installed Capacity	Capacity. Under
No.	(Executing Agency)		(No. x MW)	Execution (MW)
	Andhra Prade			
1	Polavaram (APGENCO/Irrigation Dept., A.P.)	960.00		
	Sub-total: Andhra	960.00		
	Arunachal Prac			
2	Kameng (NEEPCO)	Central	4x150	600.00
3	Subansiri Lower (NHPC)	Central	8x250	2000.00
4	### Gongri (Dirang Energy)	Private	2x72	144.00
	Sub-total: Arunacha	l Pradesh		2744.00
	Himachal Prac	lesh		
5	Parbati St. II (NHPC)	Central	4x200	800.00
6	Uhl-III (BVPCL)	State	3x33.33	100.00
7	Sawra Kuddu (HPPCL)	State	3x37	111.00
8	Shongtong Karcham (HPPCL)	State	3x150	450.00
9	Bajoli Holi (GMR)	Private	3x60	180.00
10	Sorang (HSPCL)	Private	2x50	100.00
11	Tangnu Romai (TRPG)	Private	2x22	44.00
12	Tidong-I (Statkraft IPL)	Private	100.00	100.00
	Sub-total: Himacha		1885.00	
	Jammu & Kas	hmir		
13	Pakal Dul (CVPPL)	Central	4x250	1000.00
14	Parnai (JKSPDC)	State	3x12.5	37.50
15	Lower Kalnai (JKSPDC)	State	2x24	48.00
16	# Ratle (RHEPPL)	Private	4x205 + 1x30	850.00
	Sub-total: Jammu &	1935.50		
	Kerala			
17	Pallivasal (KSEB)	State	2x30	60.00
18	Thottiyar (KSEB)	State	1x30+1x10	40.00
	Sub-total: Kei	100.00		
	Madhya Prade	esh		
19	## Maheshwar (SMHPCL)	Private	10x40	400.00
	Sub-total: Madhya			400.00
	Maharashtr			
20	Koyna Left Bank (WRD,MAH)	State	2x40	80.00
	Sub-total: Mahar	ashtra		80.00
	Punjab	ı	1	
21	Shahpurkandi (PSPCL/ Irrigation Deptt., Pb.)	State	3x33+3x33+1x8	206.00
	Sub-total: Pur	206.00		
	Sikkim			
22	Bhasmey (Gati Infrastructure)	Private	3x17	51.00
23	Rangit-IV (JAL Power)	Private	3x40	120.00
24	Rangit-II (Sikkim Hydro)	Private	2x33	66.00
25	Rongnichu (Madhya Bharat)	Private	2x48	96.00
26	Teesta St. VI (LANCO) ####	Private	4x125	500.00
27	Panan (Himagiri)	Private	4x75	300.00
	Sub-total: Sik	kim		1133.00

	Tai	mil Nadu				
28	Kundah Pumped Storage	State	1x125	125.00		
	Sub-total: Tamil Nadu					
	Utta	arakhand				
29	Lata Tapovan (NTPC)	Central	3x57	171.00		
30	Tapovan Vishnugad (NTPC)	Central	4x130	520.00		
31	Tehri PSS (THDC)	Central	4x250	1000.00		
32	Vishnugad Pipalkoti (THDC)	Central	4x111	444.00		
33	Naitwar Mori (SJVNL)	Central	2x30	60.00		
34	Vyasi (UJVNL)	State	2x60	120.00		
35	Phata Byung (LANCO)	Private	2x38	76.00		
36	Singoli Bhatwari (L&T)	Private	3x33	99.00		
	Sub-tota	l: Uttarakhand		2490.00		
	Wes	st Bengal				
37	Rammam-III (NTPC)	Central	3x40	120.00		
	Sub-total: West Bengal					
			Grand Total:	12178.50		

- # Govt. of J&K, PDD have terminated PPA on 09.02.2017 and directed JKSPDC to take over the project. JKSPDC has signed an MoU with NHPC to execute the project through a JV of NHPC and JKSPDC on 3.2.2019.
- ## PFC as lead lender have acquired majority equity i.e. 51% in the SMHPCL w.e.f. 1st June, 2016. Matter Sub-judice.

State Govt. terminated the agreement with developer for execution of project.
NHPC Ltd. emerged as H1 bidder during bidding process by NCLT. PIB note has been circulated.

LOK SABHA UNSTARRED QUESTION NO.799 ANSWERED ON 07.02.2019

ELECTRICITY FROM PARALI

†799. SHRI AJAY MISRA TENI: SHRI BHARAT SINGH:

Will the Minister of POWER be pleased to state:

- (a) whether National Thermal Power Corporation (NTPC) proposes to start generation of electricity from 'Parali' (wheat and rice plants residue) to check pollution level due to burning of 'Parali' by the farmers every year;
- (b) if so, the details thereof, State/ location/plant-wise; and
- (c) if not, the reasons therefor?

ANSWER

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

(SHRI R. K. SINGH)

(a) to (c): NTPC has already started biomass co-firing in its Dadri coal based station in Uttar Pradesh.

NTPC has invited expression of interest (EOI) on 26th December, 2018, for supply of paddy straw and other agro residue based pellets/torrefied pellets to its power stations for power generation through biomass co-firing. The EOI has been invited for 21 coal based power stations of NTPC including its JV at Jhajjar. Based on response to EOI, tender shall be floated for procurement of pellets/torrefied pellets for respective NTPC power stations. Last date of EOI submission is 25th February 2019.

NTPC is planning to replace 5 to 10% of coal fired in its power stations by pellets/torrefied pellets made of agro residues. List of power stations and daily pellets/ torrefied pellets requirement are given at Annexure.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 799 ANSWERED IN THE LOK SABHA ON 07.02.2019.

SI. No.	Coal Based Stations	State	Capacity (MW)	Pellets/ Torrefied Pellets Requirement (Metric Tonnes Per Day)
1	Singrauli	Uttar Pradesh	2000	1000
2	Korba	Chhattisgarh	2600	1300
3	Ramagundam	Telangana	2600	1300
4	Farakka	West Bengal	2100	1060
5	Vindhyachal	Madhya Pradesh	4760	1880
6	Rihand	Uttar Pradesh	3000	1500
7	Kahalgaon	Bihar	2340	1180
8	Dadri	Uttar Pradesh	1820	920
9	Jhajjar (JV)	Haryana	1500	760
10	Talcher Kaniha	Odisha	3000	1000
11	Unchahar	Uttar Pradesh	1550	560
12	Talcher Thermal	Odisha	460	240
13	Simhadri	Andhra Pradesh	2000	1000
14	Tanda	Uttar Pradesh	440	220
15	Sipat	Chhattisgarh	2980	1500
16	Mouda	Maharashtra	2320	1160
17	Bongaigaon	Assam	500	260
18	Barh	Bihar	1320	660
19	Kudgi	Karnataka	2400	1200
20	Solapur	Maharashtra	660	340
21	Lara	Chhattisgarh	800	400
		Total	41,150	19440

The daily requirement is estimated based on 65% plant load factor and is indicative only. However, daily requirement given above may change based on actual plant load factor and requirement of NTPC.

LOK SABHA UNSTARRED QUESTION NO.805 ANSWERED ON 07.02.2019

ELECTRIFICATION UNDER SAUBHAGYA

†805. SHRI RAM KUMAR SHARMA:

Will the Minister of POWER be pleased to state:

- (a) whether the Government has implemented Pradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) in previous years to connect all the villages with electricity, if so, the details thereof;
- (b) whether the target had been fixed to connect villages with electricity under the above said scheme for December 2018;
- (c) if so, the details of targets that have been achieved and the facts thereof; and
- (d) whether the definition made for electrification of village to make available power to villages is that the entire village be considered electrified after 10% households are provided with electricity connection, if so, the details thereof?

ANSWER

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

(SHRI R. K. SINGH)

- (a): Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana Saubhagya on 11th October, 2017 with the objective to achieve universal household electrification by providing electricity connections to all remaining un-electrified households in rural and all poor households in urban areas by March, 2019. In the country, 2.48 crore households have been electrified since 11.10.2017.
- (b) & (c): As reported by States, all the inhabited census villages in the country stand electrified as on 28^{th} April, 2018.
- (d): Pradhan Mantri Sahaj Bijli Har Ghar Yojana Saubhagya envisages electrifying all remaining un-electrified households in the country by 31st March, 2019.

LOK SABHA UNSTARRED QUESTION NO.835 ANSWERED ON 07.02.2019

SCHEMES FOR POWER SECTOR

†835. SHRI BIDYUT BARAN MAHATO: SHRI NARANBHAI KACHHADIYA: SHRI P.P. CHAUHAN:

Will the Minister of POWER be pleased to state:

- (a) the details of the schemes launched by the Government since the year 2014 till date along with the details of the targets set and the achievements made under each of the said schemes;
- (b) the details of the proposals received from various States along with the proposals approved by the Government under the schemes, State-wise sponsored by the Ministry of Power;
- (c) the details of the funds allocated and utilized for implementation of various schemes during each of the last four years and the current year, scheme-wise and State-wise; and
- (d) whether the Government has set any time-limit for completing the pending schemes and if so, the details thereof?

ANSWER

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

(SHRI R. K. SINGH)

- (a) to (d): The details of major schemes launched by the Government since the year 2014 are given as under:
 - (i) Deen Dayal Upadhyaya Gram Jyoti Yojana: Government of India launched Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) in December, 2014 for various rural electrification works including separation of agriculture and non-agriculture feeders, strengthening and augmentation of sub-transmission & distribution infrastructure, metering at distribution transformers/feeders/consumers and electrification of villages across the country.

Under DDUGJY projects of Rs. 42,676.67 crore have been sanctioned. In addition, an amount of Rs.11,996 crore has also been sanctioned for creation of additional infrastructure to cater to the requirement of households electrification being executed under Saubhagya. All the inhabited census villages in the country stand electrified as on 28th April, 2018.

.....2.

Details of the funds allocated/disbursed under the scheme during each of the last four years and the current year, State-wise are given in Annex-I.

(ii) Pradhan Mantri Sahaj Bijli Har Ghar Yojana – "Saubhagya": Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – "Saubhagya" in October, 2017 with an outlay of Rs. 16,320 crore to achieve universal household electrification by providing last mile connectivity and electricity connections to all households in rural and all poor households in urban areas by March, 2019. Project of Rs. 13,785 crore have been sanctioned under the scheme.

As informed by the States, 2.48 crore households have been electrified up to 28.01.2019, since launch of Saubhagya scheme in October, 2017.

Details of the funds allocated/disbursed under the scheme during each of the last four years and the current year, State-wise are given in Annex-II.

(iii) Integrated Power Development Scheme (IPDS): The Integrated Power Development Scheme (IPDS) was approved by the Government of India on 20.11.2014 with a total outlay of Rs. 32,612 crore and a budgetary support of Rs. 25,354 crore. The aim of the scheme is to provide quality and reliable power supply in the urban areas.

As on 15.01.2019, projects worth Rs. 31,962 crore, (system strengthening-Rs. 28,235cr, IT Ph-2-Rs. 985 cr, Smart metering-Rs. 834cr, ERP-Rs. 747 cr, RT-DAS-Rs. 183 cr, GIS s/s- Rs. 978cr) have been sanctioned for 546 circles in 32 states by the Monitoring Committee. Progress of 52.7% works has been reported by the Utilities. The final sunset for the IPDS Scheme, including old subsumed projects, is March, 2022.

Details of the funds allocated/disbursed under the scheme during each of the last four years and the current year, State-wise are given in Annex-III.

- (iv) Ujwal DISCOM Assurance Yojana (UDAY): The Government of India launched Ujwal DISCOM Assurance Yojana (UDAY) for the financial and operational turnaround of state-owned Power Distribution Companies (DISCOMs). The scheme aims to reduce the interest burden, reduce the cost of power, reduce power losses in Distribution sector, and improve operational efficiency of DISCOMs. There are no financial implications on the part of Government of India under UDAY.
- (v) Power System Development Fund (PSDF): Government of India has approved the scheme for operationalization of Power System Development Fund (PSDF) on 10th January, 2014. The scheme was operationalized with the issuance of the Guidelines / Procedure for Disbursement of Fund from Power System Development Fund (PSDF) on 18th September, 2014. The funds under schemes are provided as grant to State / Uts/Power Utilities under the scheme.

As on 31/01/2019, Ministry of Power has sanctioned grant of Rs 10864 crores under PSDF to various State/UTs/Power Utilities as per the details given in the Annex-IV.

(vi) North-Eastern Region Power System Improvement Project (NERPSIP): Implementation of this project (as central Sector Scheme, with funding on 50:50 basis by Gol & World Bank) would strengthen the Intra-State transmission & Distribution infrastructure of six states of North Eastern Region (Assam, Meghalaya, Manipur, Mizoram, Nagaland and Tripura); improve its connectivity to the upcoming load centers, and thus would extend the benefits of the grid-connected power to all the consumers. The project would also provide the required grid connectivity to such villages and towns of the States, where development of distribution system at the downstream level has been taking place under Gol sponsored RGGVY/ APDRP/ R-APDRP schemes. NERPSIP covers many transmission & distribution lines & sub-stations at 33kV, 66kV, 132kV and 220kV voltage levels.

State wise Infrastructure to be created in Transmission/Sub-transmission and Distribution under NERPSIP is tabulated below:

Tra	on/ Sub-t	Distribution (Not below 33kV)				
Name of State	Line (Kms.)	New S/s (Nos)	Total MVA (New & Augmentation)	Line (Kms.)	New S/s (Nos)	Total MVA (New & Augmentation)
Assam	235	11	1668	479	16	240
Manipur	254	2	112.5	131	13	274.85
Meghalaya	225	4	940	263	11	150
Mizoram	144	3	108.32	5	1	6.3
Nagaland	285	5	245	76.5	10	190
Tripura	261	9	1307	1077	34	450.5
Total	1404	34	4380.82	2031.50	85	1311.65

The projects sanctioned under the scheme are under various stages of implementation and scheduled to be completed progressively by November, 2020.

Details of Fund utilised (upto December 2018)

SI. No.	Particulars	Total (in Crs.)
1	Amount disbursed	Rs. 1040.17
2	Amount utilized	Rs. 967.44

(vii) Comprehensive Scheme for strengthening of Transmission & Distribution System in Arunachal Pradesh & Sikkim: Comprehensive scheme was evolved for strengthening of T&D works in Arunachal Pradesh & Sikkim which covers various lines and substations at 33kV, 66kV, 132kV and 220kV voltage levels. The details of T&D scheme is given as under:

Date of Govt. Approval: October 2014

Implementing Agency: PGCIL (as"Design-cum-implementation supervision

Consultant")

Sanctioned Cost (Rs. crs): 4754.42 Cr. (at April, 2013 price level)

Completion Schedule: 48 months from the date of release of 1st installment.

Details of fund utilised under Comprehensive Scheme for Arunachal Pradesh & Sikkim

(up to Nov, 2018)-In Rs. Crore

SI.	State	Fund	Amount	Amount
No.		Allocated	received	spent
1	Arunachal Pradesh	3199.45	610.64	514.61
2	Sikkim	1554.97	483.61	447.34
	Total	4754.42	1094.25	961.95

(viii) Renewable Energy Management Centre (REMC): Govt. of India has an ambitious target to have 175 GW of renewable power capacity by 2022 with 100 GW of Solar & 60 GW contributions from wind & balance from other generations. Proper Visualization and situational awareness tool at control center is required for monitoring & control of Renewable power. To perform forecasting, Scheduling and real time tracking of RE generation and co-ordinate closely with respective Load Dispatch Centers, the establishment of REMCs were envisaged. The Forecasting System shall facilitate System Operators in better management of grid operation to ensure Power System Security and Stability. Under the scheme REMC control centers have been sanctioned for 11 locations as per the details given in the Annex-V.

State-wise, Year-wise details of grant disbursed under DDUGJY (incl. Additional Infra) during last four years and current year

(Rs Crore)

Sr.	Name of State	2014-15	2015-16	2016-17	2017-18	2018-19	
1	Andhra Pradesh	20	31	128	165	161	
2	Arunachal Pradesh	60	31	101	81	7	
3	Assam	115	338	598	401	722	
4	Bihar	1,490	710	1,292	763	1,568	
5	Chhattisgarh	94	279	126	552	79	
6	Gujarat	12	58	110	143	166	
7	Haryana	(14)	-	-	45	22	
8	Himachal Pradesh	-	28	-	-	15	
9	J&K	-	-	-	65	340	
10	Jharkhand		-	327	862	930	
11	Karnataka	26	44	145	204	296	
12	Kerala	15	-	134	87	57	
13	Madhya Pradesh	359	439	421	598	620	
14	Maharashtra	-	43	257	143	270	
15	Manipur		7	36	33	25	
16	Meghalaya	-	-	26	58	49	
17	Mizoram	-	19	14	42	27	
18	Nagaland	-	48	21	24	33	
19	Orissa		514	1,079	366	884	
20	Punjab	-	-	-	15	42	
21	Rajasthan	-	253	347	782	615	
22	Sikkim	-	-	-	18	8	
23	Tamil Nadu	-	77	110	2	151	
24	Telangana	3	5	27	60	61	
25	Tripura	48	49	78	62	22	
26	Uttar Pradesh	1,121	1,249	2,262	3,149	3,026	
27	Uttarakhand	1	71	16	33	159	
28	West Bengal	145	305	273	241	869	
29	Goa	-	-	-	_	4	
30	D&N Haveli	-	-	-	-	1	
31	Puducherry	-	-	1	-	-	
32	Andaman Nicobar	-	-	-	1	-	
	Grand Total	3,609	4,599	7,930	8,995	11,228	

^{*} Negative figure pertains to refund of excess funds due to reduction in final project execution cost

State-wise details of grant disbursed under Saubhagya since launch of the scheme i.e. 11.10.2017

(Rs. Crore)

		1	ı	(NS. CIOIE)
SI. No	State	2017-18	2018-19 (upto 31.01.2019)	Total Release
1	Arunachal Pradesh	-	182	182
2	Assam	42	389	431
3	Bihar	115	-	115
4	Chhattisgarh	43	190	233
5	Himachal Pradesh	-	1	1
6	J&K	2	51	53
7	Jharkhand			146
8	Kerala	15	-	15
9	Madhya Pradesh	260	147	407
10	Maharashtra			109
11	Manipur	6	14	20
12	Meghalaya	-	64	64
13	Mizoram	-	29	29
14	Nagaland	5	29	34
15	Odisha	76	129	205
16	Rajasthan	-	103	103
17	Tripura	-	156	156
18	Uttar Pradesh	864	506	1,370
19	Uttarakhand	13	7	20
20	West Bengal	14	33	47
	Total	1,541	2,200	3,741

			8/	NCTION	NICHIIDCEN	MENT STAT	US UNDER	IDDS					
State	Utility	Sanc	Sanc	Sanc	Sanc	Sanc	Sanc	Disb	Disb	Disb	Disb	Disb	Disb
3.4.6		2014- 15	2015- 16	2016- 17	2017- 18	18-19	Amount Cum.	14-15	15-16	16-17	17-18	18-19	Amount Cumulative
Haryana	UHBVNL	0	79	0	17	13	109	0	0	5	7	2	13
	DHBVNL	0	0	311	21	6	338	0	0	19	6	28	53
	TOTAL	0	79	311	37	19	447	0	0	24	13	30	66
HP	HPSEB	0	111	0	39	40	190	0	0	9	2	21	33
J&K	J&K PDD	0	447	0	21	54	521	0	0	3	35	0	38
Punjab	PSPCL	0	326	0	113	26	465	0	0	20	29	20	69
Chandigarh	ED	0	0	0	0	0	0	0	0	0	0	0	0
Rajasthan	AVVNL	0	410	0	38	45	493	0	0	25	45	0	70
	JaVVNL	0	497	0	91	30	675	0	0	54	33	0	87
	JoVVNL	0	403	0	63	28	513	0	0	51	21	0	72
UP	TOTAL MVVNL	0	1310	0	192	103	1681	0	0	130	99	0	229
UP	PoorvaVVNL	607	724 672	0	86 210	15 36	824 1527	20	39	92 145	34 138	212 305	338 648
	PaschimVVNL	460	1026	0	196	15	1698	5	23	216	316	174	733
	DVVNL	0	769	0	78	10	858	0	0	116	125	142	383
	KESCO	0	463	0	28	4	496	0	0	62	22	167	251
	TOTAL	1068	3654	0	599	81	5402	25	62	631	635	1001	2353
Uttarakhand	UPCL	0	192	12	40	481	725	0	0	16	33	87	136
Delhi	NDMC	"	132	198	0	0	198	-	-	0	0	33	33
Delhi	Total		0	198	0	0	198	0	0	0	0	33	33
MP	MPPKVVCL(E)	0	498	0	90	32	619	0	0	37	53	9	98
	MPMKVVCL(C)	0	485	0	30	14	522	0	0	29	19	38	86
	MPPKVVCL(W)	73	453	0	15	114	649	1	3	35	0	48	87
	TOTAL	73	1436	0	135	159	1790	1	3	101	71	95	272
Gujarat	PGVCL	0	462	8	18	0	488	0	0	83	0	115	198
•	DGVCL	0	188	3	7	0	197	0	0	34	0	0	34
	MGVCL	375	0	3	20	0	398	5	18	45	130	5	203
	UGVCL	0	103	7	141	0	251	0	6	12	0	0	19
	TOTAL	375	753	22	185	0	1334	5	24	175	130	120	453
Chhattisgarh	CSPDCL	0	492	66	53	45	656	0	30	0	40	1	71
Maharashtra	MSEDCL	0	2312	0	136	80	2529	0	0	191	160	63	414
	BEST	0		105	0	0	105	0	0	6	0	13	19
	TOTAL	0	2312	105	136	80	2553	0	0	197	160	76	433
Goa	GOA ED	0	0	0	32	52	84	0	0	0	2	0	2
AP	APSPDCL	209	143	17	34	68	472	3	10	44	120	7	184
	APEPDCL	224	78	4	101	62	469	0	18	23	113	11	165
	TOTAL	433	221	21	136	131	941	3	28	67	232	18	349
Telangana	TSNPDCL	0	201	6	43	4	255	0	0	12	19	77	108
	TSSPDCL	0	452	18	38	6	514	0	0	27	51	146	225
	TOTAL	0	654	24	81	10	769	0	0	39	70	223	333
Karnataka	BESCOM	0	459	0	85	0	545	0	0	28	54	130	212
	CESC	0	171	0	19	67	257	0	0	10	19	29	58
	GESCOM	0	184	0	6	0	191	0	0	11	18 19	4	33
	MESCOM	0	171 159	0	45 15	92 40	309 213	0	0	10 10	19	56 57	86 86
Karnataka	TOTAL	0	1144	0	171	199	1514	0	0	69	130	276	475
Kerala	KSEB	0	0	618	108	199	731	0	0	107	0	0	107
.verala	CPT	"	U	5	0	0	5	U	U	0	0	0	107
	Total		0	623	108	5	736	0	0	108	0	0	108
Tamil Nadu	TANGEDCO	0	1569	023	135	150	1854	0	0	29	250	0	279
Puducherry	PD	0	22	0	0	0	22	0	0	0	0	4	4
A&N islands		-		18	0	0	18	_		_	1	0	1
Bihar	NBPDCL	172	891	0	22	364	1449	2	8	160	0	7	177
	SBPDCL	74	974	0	46	618	1712	0	4	161	20	0	185
	Total	246	1865	0	68	982	3161	2	13	321	20	7	363
Jharkhand	JSEB	0	0	735	54	0	790	0	0	44	89	160	292
West Bengal	WBSEDCL	1075	1530	276	32	88	3000	14	51	109	316	19	508
-	DPL	0	59	0	0	0	59	0	0	4	3	4	10
	TOTAL	1075	1589	276	32	88	3059	14	51	112	319	23	519
Odisha	SOUTHCO	0	260	0	25	3	288	0	0	42	0	39	81
	WESCO	0	261	0	24	4	289	0	0	44	0	89	133
	NESCO	$oxed{oxed}$	0	328	21	3	351	0	0	57	0	1	58
	CESU	0	0	234	72	3	310	0	0	40	0	80	120
	TOTAL	0	521	562	142	12	1238	0	0	183	0	210	392
Assam	APDCL	0	585	0	74	83	742	0	50	0	103	0	153
Arunachal Pradesh	PD	0	151	0	0	8	159	0	0	13	0	0	13
Nagaland	PD	0	0	44	0	94	138	0	0	4	7	8	19
Manipur	PD	0	130	0	4	23	157	0	11	21	0	0	32
Meghalaya	MeECL	0	62	0	0	46	108	0	0	5	0	9	15
Mizoram	PD	0	49	0	4	58	111	0	0	12	0	3	15
Sikkim	PD	0	0	0	15	146	161	0	0	0	1	9	10
Tripura	PD	0	74	0	31	116	141	0	6	0	8	3	17

Year 2014-15 :	Γ - Γ		
State / Utility	Approved Cost (Rs. cr)	Grant Sanctioned (Rs. cr)	Funds Disbursed (Rs. cr)
POWERGRID	374.63	262.24	173.9
Kerala	91.46	82.31	46.8
Rajasthan	183.4	165.06	34.1
West Bengal	120.67	108.6	37.7
Year 2015-16 :	<u> </u>	<u> </u>	
State / Utility	Approved Cost (Rs. cr)	Grant Sanctioned (Rs. cr)	Funds Disbursed (Rs. cr)
Assam	352.89	352.89	106.9
Bihar	71.35	64.22	56.
Nagaland	39.96	39.96	32
Gujarat	6.99	6.82	1
Karnataka	86.97	78.27	44.96
namataka Odisha	180.56	162.50	38.
Uttar Pradesh	322.23	278.01	119.
Puducherry	10.56	9.5	0.
Meghalaya	101.72	101.72	59.
Megnalaya Tamil Nadu	138.28	124.45	23.
i amii Nagu Vizoram	26.84	26.84	23.
WIZOFAM NRPC	6.45	6.45	4.4
NKPC Jammu & Kashmir	+		
	286.16	286.16	26.4
Telangana	59.97	53.97	12.
Himachal Pradesh	55.44	55.44	34.44
Tripura	31.05	31.05	26.
POWERGRID	700.31	630.28	316.
Delhi 	125.98	113.38	20.
ERPC	20.00	20.00	14.83
Madhya Pradesh	107.00	96.30	55.
Punjab	18.21	16.39	
Uttarakhand	125.05	125.05	101.
Year 2016-17 :	T T		
State / Utility	Approved Cost	Grant Sanctioned	Funds Disbursed (Rs. cr)
	(Rs. cr)	(Rs. cr)	
Madhya Pradesh	58.55	52.70	9.
Andhra Pradesh	169.69	152.72	29.
Chhattisgarh	68.52	61.67	0.
Arunachal Pradesh	18.21	18.21	0.
Telangana	53.63	48.27	36.
Manipur	33.50	33.50	3.
West Bengal	26.09	23.48	2.
Haryana	364.27	273.20	28.
Bihar	75.67	68.10	0.
Punjab	15.30	13.78	3.
SRPC	30.59	30.59	19.
Kerala	5.30	4.77	0.
DVC	28.85	25.96	2.

Tamil Nadu	13.31	11.98	1.20
Gujarat	32.37	29.13	2.91
PGCIL	5778.00	2889.00	0.00
PGCIL/ RECTPCL	233.03	233.03	21.78
Year 2017-18 :		<u>.</u>	
State / Utility	Approved Cost	Grant Sanctioned	Funds disbursed (Rs. cr)
	(Rs. cr)	(Rs. cr)	
Kerala	630.1	494.72	118.87
DVC	156.11	140.5	14.05
West Bengal	143.24	114.89	28.89
Tamil Nadu	497.05	322.96	16.75
Telangana	245.74	145.49	0.65
NERPC	6.50	6.50	3.44
Maharashtra	233.89	188.19	19.13
Chhattisgarh	5.03	4.53	0.00
Uttar Pradesh	63.31	47.48	4.74
Rajasthan	768.14	389.35	58.16
Gujarat	631	364.75	25.4
Manipur	13.37	13.37	1.34
	8.15	4.08	0.41
Odisha	24.83	22.35	2.24
	51.22	25.61	0.00
Madhya Pradesh	7.45	6.71	0.67
Andhra Pradesh	284.96	142.48	0.00
PGCIL	472.55	378.04	37.8000
ВВМВ	25.86	23.27	2.33
Jharkhand	153.48	138.13	0.00
Uttarakhand	37.46	18.73	0.00
Year 2018-19 :			
State / Utility	Approved Cost	Grant Sanctioned	Funds disbursed (Rs. cr)
	(Rs. cr)	(Rs. cr)	
ERPC	6.07	6.07	0
Chhattisgarh	145.91	42.96	0.00
West Bengal	50.18	45.16	0.00
Karnataka	253.57	126.79	0.00
Andhra Pradesh	21.48	19.33	0.00
Punjab	66.1	33.05	0.00
Himachal Pradesh	43.02	33.7	0
Madhya Pradesh	428.31	219.96	0
Odisha	30.26	27.23	0.00
Puducherry	7.37	3.69	0.00
NERPC	18	18.00	0.00
NRPC	28	28.00	0.00
Grand Total		10864.02	1894.25

ERPC= Eastern Region Power Committee

NRPC = Northern Region Power Committee

SRPC = Southern Region Power Committee

NERPC = North Eastern Region Power Committee

Details of the REMC Centers

SI. No.	Location of REMC	Estimated Cost (Rs. Cr.)
1	Tamil Nadu	45.4
2	Andhra Pradesh	36.5
3	Karnataka	41
4	SRLDC	30.5
5	Gujarat	44
6	Madhya Pradesh	35.8
7	Maharashtra	39.5
8	WRLDC	35
9	Rajasthan	38.7
10	NRLDC	35
11	NLDC	27.6
	Total	409

GOVERNMENT OF INDIA MINISTRY OF POWER

LOK SABHA UNSTARRED QUESTION NO.857 ANSWERED ON 07.02.2019

SHORTAGE OF THERMAL FUEL

857. SHRI MALLIKARJUN KHARGE:

Will the Minister of POWER be pleased to state:

- (a) the total thermal power generated in the country, State-wise, as on date;
- (b) whether many thermal power plants are not getting sufficient quantity and quality of coal since last year and if so, the details thereof;
- (c) the steps taken by the Government to address the problems faced by these power plants; and
- (d) the measures adopted to provide incentives and other encouragements to the major power producing States in the country?

ANSWER

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

(SHRI R. K. SINGH)

- (a): Details of total thermal power generation in the country, State-wise, from 25 MW & above capacity power plants during the current year 2018-19 (up to December 2018) is given at Annexure-I.
- (b): Coal is supplied to power plants as per the Fuel Supply Agreements (FSA) between power producer and the coal companies. The details of coal receipt at power plants during last year and current year is given at Annexure-II. With this receipt of coal at power plants, the power requirement in the Electricity grid has been met.

With the concerted efforts of Ministry of Power, Ministry of Coal and Railways, the coal stock available with the power plants monitored in Central Electricity Authority (CEA) on daily basis has improved to 20.77 MT as on 03.02.2019 which is sufficient for 13 days of generation as compared to 14.6 MT for 9 days as on the same day last year.

(c) & (d): In order to address the coal quality issue, it has been decided by the Ministry of Power and the Ministry of Coal that the power utilities would appoint a Third Party Sampler namely Central Institute of Mining and Fuel Research (CIMFR) for Third Party Sampling and Analysis of coal at loading-end as well as at unloading-end. Based on the Third Party Sampling analysis results furnished by CIMFR, credit/debit note are issued by coal companies to the power plants in case of difference between declared grade of coal and analyzed grade of coal.

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

Following steps have also been taken by the Government to address the problems faced by thermal power plants:

- (i) Phase out of erstwhile Letter of Authorisation (LoA) -Fuel Supply Agreement (FSA) regime and Introduction of new SHAKTI POLICY-2017.
- (ii) Provision of Bridge Linkages to allottees whose mines are under development.
- (iii) Recommendation of the High Level Empowered Committee to address the issues of stressed Thermal Power Projects.

State-wise Thermal Generation during current year 2018-19(Up to December 2018)

State	Generation (Million Unit)
ANDAMAN NICOBAR	99.98
ANDHRA PRADESH	46292.41
ASSAM	4053.81
BIHAR	23730.92
CHHATTISGARH	88426.9
DELHI	6155.66
DVC	26490.02
GUJARAT	69052.52
HARYANA	19520.77
JHARKHAND	10254.36
KARNATAKA	21437.68
KERALA	1.23
MADHYA PRADESH	88157.25
MAHARASHTRA	91981.11
ORISSA	29624.07
PUDUCHERRY	181.45
PUNJAB	20932.74
RAJASTHAN	35635.77
TAMIL NADU	52398.65
TELANGANA	35319.44
TRIPURA	4873.95
UTTAR PRADESH	91546.28
UTTARAKHAND	880.81
WEST BENGAL	38385.74
Total	805433.52

Note:

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

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 857 ANSWERED IN THE LOK SABHA ON 07.02.2019.

Coal Receipt at the Power Plants (MT)

SI.			2018-19
No.		2017-18	(upto December)
1.	CIL	416.0	337.2
2.	SCCL	52.1	40.9
3.	Captive	31.6	29.3
4.	E Auction	39.0	22.0
5.	Total Domestic Receipt [1 to 4]	538.6	429.3
6.	Imported (Blending)	17.0	15.3
7.	Imported (Imported coal plants)	39.4	29.4
8.	Total Imported Receipt [6+7]	56.4	44.6
9.	Total Coal Receipt [5+8]	595.0	473.9

GOVERNMENT OF INDIA MINISTRY OF POWER

LOK SABHA UNSTARRED QUESTION NO.871 ANSWERED ON 07.02.2019

POWER EQUIPMENTS

871. SHRI KONAKALLA NARAYANA RAO:

Will the Minister of POWER be pleased to state:

- (a) whether the Government is making it mandatory for indigenous and thermal and hydro power producers to purchase power equipments from local markets;
- (b) if so, the details thereof;
- (c) whether the Government while issuing the guidelines ensured that the equipments that power producers are going to purchase are made available in the local markets, if so, the details thereof; and
- (d) the measures being taken by the Government to make sure that the equipments are made available in the local market?

ANSWER

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

(SHRI R. K. SINGH)

(a) to (d): Government of India, Department of Industrial Policy & Promotion under order dated 15th June, 2017 and 28th May, 2018 has issued Public Procurement (Preference to Make in India), Orders, 2017 to encourage "Make in India" and to promote manufacturing and production of goods and services in India. In pursuance of the aforesaid order, the Ministry of Power has issued orders dated 20th December, 2018 and 27th December, 2018 in respect of Hydro and Thermal Power Sectors respectively, to provide for purchase preference (linked with local content). As per these orders, preference shall be given by public procuring entities to domestically manufactured products used in thermal and hydro power sector. These orders have been issued after taking into consideration the aspect of indigenous availability of power equipments, current import content and target of local content for next five years including assessment by manufacturers/suppliers for the same.

GOVERNMENT OF INDIA MINISTRY OF POWER

LOK SABHA UNSTARRED QUESTION NO.887 ANSWERED ON 07.02.2019

MEETING WITH MOS

887. SHRI J.C. DIVAKAR REDDY:

Will the Minister of POWER be pleased to state:

- (a) whether the Government recently held a meeting with all the States Power Ministers; and
- (b) if so, the details of issues discussed and outcome thereof particularly related to Andhra Pradesh State?

ANSWER

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

(SHRI R. K. SINGH)

(a) & (b): The last Conference of Power and Renewable Energy Ministers of States and Union Territories was held on 3rd July, 2018 at Shimla, Himachal Pradesh. The issues discussed therein, inter-alia, included, Saubhagya - household electrification, implementation of Integrated Power Development Scheme (IPDS), performance under Ujwal DISCOM Assurance Yojana (UDAY), 24X7 power for all, flexibility in utilization of coal, charging infrastructure for Evehicles, energy conservation, compliance of renewable purchase obligations (RPOs), and bidding for solar and wind capacity etc. The decisions / recommendation arising out of Power Ministers Conference, including those related to Andhra Pradesh are given at Annexure.

Gist of important decisions / recommendations arising out of Power Ministers' Conference held on 3^{rd} July, 2018 in Shimla, including those related to Andhra Pradesh, is as under:

- 1. Achievement of 100% household electrification by 31st December 2018.
- 2. State Government were requested to give comments on proposed amendments in the Electricity Act and Tariff Act.
- 3. The States were requested to increase the pace of implementation of IPDS scheme so as to complete the works by March 2019.
- 4. The States having more than 15% AT&C losses were requested to submit action plan/road map for loss reduction.
- 5. All subsidies have to be provided by Direct Benefit Transfer (DBT) which need to be released in time.
- 6. There shall be a provision for penalty for unscheduled load shedding with effect from 1.4.2019.
- 7. Thrust has to be given to use of electric energy instead of fossil-fuel energy.
- 8. A target was set to achieve 30% of vehicles being manufactured to be electrical vehicle by 2020.
- 9. Setting up of charging stations for electrical vehicles through out the country in a gradual manner.
- 10. States and UTs will prepare month-wise plans for bidding of Solar and Wind power capacity in order to achieve 175 GW renewable energy target by 2022.
- 11. The RPO compliance should be ensured by State/UT strictly and RPO trajectory should be aligned as per long term trajectory upto 2022, as notified by Ministry of Power.
- 12. Promotion of Solar based cooking.
- 13. Solarization of agricultural pumps.
- 14. States/UTs were requested to submit proposals for Solar parks under additional 20,000 MW capacity allocation.
- 15. Disposal of Bio-mass in an environmentally friendly manner and conversion of bio-mass into small briquettes so as to use the same in Thermal Power Plants.
- 16. An R&D Mission shall be formulated to encourage development of new technology in renewable energy sector.

GOVERNMENT OF INDIA MINISTRY OF POWER

LOK SABHA UNSTARRED QUESTION NO.889 ANSWERED ON 07.02.2019

UDAY SCHEME

889. SHRI GUTHA SUKENDER REDDY:

Will the Minister of POWER be pleased to state:

- (a) whether the Ujwal Discom Assurance Yojana (UDAY) scheme has shown any positive effect on the performance of the Power Distribution Companies;
- (b) if so, the details thereof;
- (c) whether in spite of implementation of UDAY Scheme still the power distribution companies are becoming further debt driven;
- (d) whether any study has been conducted to evolve the issues, if so, the details thereof; and
- (e) the details of the estimated targets and achieved results so far, State-wise?

ANSWER

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

(SHRI R. K. SINGH)

- (a) to (d): As a result of Ujwal Discom Assurance Yojana (UDAY), State Power Distribution Utilities have reported improvement in their performance in number of parameters such as (i) Aggregate Technical & Commercial (AT&C) losses have come down from 20.80% in 2015-16 to 18.76% in 2017-18. 23 UDAY States out of 27 have reduced AT&C losses from 2015-16 to 2017-18; (ii) Average Cost of Supply (ACS) Average Revenue Realised (ARR) gap has come down from 60 paise per unit in 2015-16 to 17 paise per unit in 2017-18; (iii) Book losses reduced from Rs.51,575 crore in 2015-16 to Rs.15,132 crore in 2017-18; and (iv) Total debt has not increased.
- (e): The details of State-wise targets and achievements for key parameters of UDAY in respect of AT&C losses and ACS-ARR gap are given at Annexure-I and Annexure-II respectively.

	Target and achievement of AT&C Losses									
SI.	State/UT	Unit	Base Year	Target	Achievement	Target	Achievement			
No.			figures	2016-17	2016-17	2017-18	2017-18			
			(2015-16)							
1	Andhra Pradesh	(In %)	9.41	9.26	10.96	9.00	8.69			
2	Arunachal Pradesh	(In %)	64.27	52.41	35.88	43.00	65.45			
3	Assam	(In %)	25.51	19.00	23.81	17.75	15.71			
4	Bihar	(In %)	43.74	36.43	38.97	29.03	33.19			
5	Chhattisgarh	(In %)	21.79	18.93	19.34	18.00	18.8			
6	Dadra and Nagar Haveli	(In %)	-	7.95	9.23	7.50	6.09			
7	Daman and Diu	(In %)	13.25	10.33	10.65	9.32	10.34			
8	Goa	(In %)	17.12	18.75	16.79	16.59	16.12			
9	Gujarat	(In %)	15.04	14.00	12.28	13.50	11.71			
10	Haryana	(In %)	29.83	24.02	25.43	20.04	20.29			
11	Himachal Pradesh	(In %)	12.92	13.25	8.48	13.00	12.14			
12	Jammu & Kashmir	(In %)	61.6	46.00	61.34	35.00	53.78			
13	Jharkhand	(In %)	34.71	28.00	31.8	22.00	31.78			
14	Karnataka	(In %)	14.94	15.50	15.36	15.00	14.48			
15	Kerala	(In %)	16.03	11.45	17.28	11.23	12.05			
16	Madhya Pradesh	(In %)	23.97	21.15	26.53	19.15	29.74			
17	Maharashtra	(In %)	19.07	16.74	18.88	17.51	17.41			
18	Manipur	(In %)	44.21	28.89	36.89	20.33	24.61			
19	Meghalaya	(In %)	36.48	32.51	34.87	27.50	34.64			
20	Puducherry	(In %)	19.88	19.00	18.98	15.00	19.56			
21	Punjab	(In %)	15.9	15.30	14.46	14.50	17.26			
22	Rajasthan	(In %)	30.41	20.11	26.02	17.57	20.02			
23	Sikkim	(In %)	38.06	29.50	40.59	25.94	32.57			
24	Tamil Nadu	(In %)	14.58	14.05	14.53	13.79	14.23			
25	Telangana	(In %)	13.95	12.45	15.88	11.19	13.5			
26	Tripura	(In %)	20.94	30.00	16.61	25.00	15.52			
27	Uttar Pradesh	(In %)	26.47	28.27	30.21	23.63	27.67			
28	Uttarakhand	(In %)	17.19	16.00	14.02	15.00	15.73			
	UDAY States Average	(In %)	20.8	18.74	20.25	16.83	18.76			

(Above data is based on provisional data as submitted by States /DISCOMs on UDAY portal)

Target and achievement of ACS-ARR gap										
SI. No	State/UT	UNIT	Base Year figures (2015-16)	Target 2016-17	Achievement 2016-17	Target 2017-18	Achievemen 2017-18			
1	Andhra Pradesh	Rs./Unit	0.82	0.21	0.44	0.09	0.02			
2	Arunachal Pradesh	Rs./Unit	3.76	0	5.22	0	4.32			
3	Assam	Rs./Unit	0.58	0.43	0.3	0.19	0.43			
4	Bihar	Rs./Unit	0.65	1.33	0.59	0.83	0.39			
5	Chhattisgarh	Rs./Unit	0.18	-1.21	-0.15	-0.34	-0.03			
6	Dadra and Nagar Haveli	Rs./Unit	-	0	0.27	0	0.06			
7	Daman and Diu	Rs./Unit	-0.11	-0.36	-0.11	-0.22	-0.02			
8	Goa	Rs./Unit	1.5	0.75	0.95	0.2	0.41			
9	Gujarat	Rs./Unit	-0.02	-0.04	-0.03	-0.04	-0.04			
10	Haryana	Rs./Unit	0.18	0.83	0.04	0.51	-0.02			
11	Himachal Pradesh	Rs./Unit	-0.32	-0.04	0.21	-0.05	-0.09			
12	Jammu & Kashmir	Rs./Unit	2.55	0.68	2.15	0.71	1.96			
13	Jharkhand	Rs./Unit	1.22	1.99	1.39	0.99	0.57			
14	Karnataka	Rs./Unit	0.06	0	0.06	-0.01	0.07			
15	Kerala	Rs./Unit	0.23	0.26	0.53	-0.04	0.27			
16	Madhya Pradesh	Rs./Unit	0.92	0.34	0.24	0.16	0.33			
17	Maharashtra	Rs./Unit	0.3	0.36	0.28	0.01	-0.07			
18	Manipur	Rs./Unit	1.31	1.68	0.1	0.64	0.08			
19	Meghalaya	Rs./Unit	0.88	0.83	1.99	0.61	1.3			
20	Puducherry	Rs./Unit	0.03	0	-0.11	0	0			
21	Punjab	Rs./Unit	0.53	0.37	0.65	0.04	0.48			
22	Rajasthan	Rs./Unit	1.65	0.4	0.36	0.2	-0.33			
23	Sikkim	Rs./Unit	7.96	0.7	4.62	0.39	6.93			
24	Tamil Nadu	Rs./Unit	0.6	0.2	0.39	0.05	0.28			
25	Telangana	Rs./Unit	0.69	0.87	1.24	0.4	0.55			
26	Tripura	Rs./Unit	0.24	0.05	0.02	0.04	0.08			
27	Uttar Pradesh	Rs./Unit	0.88	1.04	0.62	0.6	0.28			
28	Uttarakhand	Rs./Unit	0.1	0.04	0.22	-0.01	0.17			
	UDAY State's Average	Rs./Unit	0.60	0.48	0.42	0.24	0.17			

(Above data is based on provisional as submitted by States /DISCOMs on UDAY portal)