GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1625
ANSWERED ON 29.07.2021

CHANGE OF NAMES OF SCHEMES

1625. MS. RAMYA HARIDAS:

Will the Minister of POWER be pleased to state:

(a) whether it is a fact that the names of a number of schemes has been changed by the Ministry during the last five years;

(b) if so, the names by which these schemes were being run previously along with the present names thereof;

(c) the reasons for changing the names of the schemes; and

(d) the details of benefits derived by changing the names of the schemes?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (d) : Yes, Sir. A number of different schemes were running for promoting energy conservation and energy efficiencies. As the overall objective of these schemes was common, these were merged into one consolidated scheme. The details of the schemes which have been merged into the consolidated scheme are given at Annexure.

The consolidation of the various schemes into one has resulted in channelizing the efforts towards promotion of energy conservation activities in a more effective and flexible manner. This has also led to simplification of the operational issues including better monitoring of the physical and financial progress along with smooth implementation. The flexible approach has also enabled better allocation of resources among the activities on need basis.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 1625 ANSWERED IN THE LOK SABHA ON 29.07.2021

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Details of schemes:

Sl. No.	Name of Scheme till 2017	Name of the consolidated Scheme
1	Strengthening of State Designated Agencies (SDAs) to promote efficient use of energy and its conservation at State level.	Scheme for "Promoting Energy Efficiency Activities in Different Sectors of Indian Economy"
2	Demand Side Management (DSM) Initiatives	
3	Energy Efficiency & Technology Up-gradation in Small & Medium Enterprises (SMEs)	
4	Standards, Codes & Labeling for Appliances & Buildings	
5	Energy Conservation Awareness, Awards and Painting Competition	

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1641
ANSWERED ON 29.07.2021

STATUS OF THERMAL POWER PLANTS

1641. SHRI SISIR KUMAR ADHIKARI:

Will the Minister of POWER
be pleased to state:

(a) whether it is a fact that few units of different thermal power plants in the country were forced to stop and some had reduced production due to shortage of coal supply during the last one and half year time;

(b) if so, the details thereof, State-wise; and

(c) the action taken by the Government thereto and the outcome thereof?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : No Sir.

(b) : In view of the above, the question does not arise.

(c) : In order to address the day to day issues of coal supplies to power sector, an Inter-Ministerial Sub Group comprising of representatives from Ministry of Power, Ministry of Coal, Ministry of Railways, Ministry of Shipping, Central Electricity Authority (CEA), NTPC Ltd., Coal India Limited (CIL)/Singareni Collieries Company Limited (SCCL) meet regularly to take various operational decisions for meeting any contingent situations relating to Power Sector including critical coal stock position in power plants.

Further, the Government has taken the following steps to help the plants to meet their coal requirement:

i. Government in May, 2016 allowed flexibility in utilization of domestic coal by State/Central Gencos amongst their generating stations to reduce the cost of power generation by using coal in most efficient plants as well as by saving in transportation cost. The States may also transfer their linkage coal to IPPs selected through bidding process and take equivalent power.

ii. Rationalization of linkage sources of State/Central Gencos and IPPs with a view to optimize transportation cost has been allowed.

iii. 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 linkage.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1673
ANSWERED ON 29.07.2021

ASSESSMENT OF POWER DEMAND

†1673. SHRIMATI RAMA DEVI:

Will the Minister of POWER
be pleased to state:

(a) the quantum of power demand assessed by the Government during the last three years, State-wise;

(b) the manner in which power demand is being met by the Government and the quantum of power supply thereof;

(c) the names of private power companies violating the norms regarding power supply during the said period; and

(d) the nature of action taken/proposed to be taken against such private power companies found guilty in this regard and the outcome thereof?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : The details of State/UT-wise power demand and demand met in the country for the last three years i.e. 2018-19, 2019-20 and 2020-21 are given at Annexure-I. The present installed generation capacity in the country is around 384 Giga Watt (GW) which is more than sufficient to meet the power demand in the country. The maximum peak power demand experienced so far was around 200.6 GW on 07/07/2021.

The States/ UTs meet their respective energy requirement from various sources such as their own generation, share from Inter-State Generating Stations which also includes Central Sector Generating Stations, procuring power on bilateral basis and through Power Exchanges etc. Energy not supplied is mainly on account of constraints in the distribution network and the financial constraints of DISCOMs to procure the power.

(c) & (d) : As per the Electricity Act, 2003, generation is a de-licensed activity. The power supply by a generating company including private power companies to the buyers is as per the Power purchase Agreements between them. The procedure adopted for supply of power is also as per the power purchase agreement. In case of any default in supply of power, the buyers can take action suitably against such generating companies including private power companies as per the terms and conditions stated in the power purchase agreements. Electricity Regulatory Commissions have jurisdiction to adjudicate the disputes between licensees and generating companies.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1673 ANSWERED IN THE LOK SABHA ON 29.07.2021.

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Power Supply Position for the last three years i.e. 2018-19, 2019-20 & 2020-21

State / System / Region	Energy				Energy				Energy			
	April, 2020 - March,2021				April, 2019 -March,2020				April, 2018 - March,2019			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)
Chandigarh	1,523	1,523	0	0.0	1,732	1,732	0	0.0	1,571	1,571	0	0.0
Delhi	29,560	29,555	4	0.0	33,086	33,077	9	0.0	32,299	32,282	17	0.1
Haryana	53,161	53,108	53	0.1	54,505	54,492	13	0.0	53,665	53,665	0	0.0
Himachal Pradesh	10,186	10,130	56	0.5	10,424	10,353	71	0.7	9,850	9,618	232	2.4
UT of J&K and Ladakh	19,773	17,222	2,551	12.9	20,025	16,259	3,767	18.8	18,988	15,616	3,372	17.8
Punjab	58,445	58,377	67	0.1	56,776	56,770	6	0.0	55,328	55,315	13	0.0
Rajasthan	85,311	85,205	106	0.1	81,281	81,222	58	0.1	79,815	79,626	189	0.2
Uttar Pradesh	124,367	123,383	984	0.8	122,549	121,004	1,545	1.3	117,133	116,149	984	0.8
Uttarakhand	13,827	13,818	8	0.1	14,472	14,376	96	0.7	13,845	13,753	92	0.7
Northern Region	396,151	392,323	3,829	1.0	394,851	389,285	5,566	1.4	382,493	377,595	4,898	1.3
Chhattisgarh	30,472	30,449	22	0.1	30,111	30,107	4	0.0	26,471	26,417	54	0.2
Gujarat	111,622	111,622	0	0.0	113,940	113,939	1	0.0	116,372	116,356	15	0.0
Madhya Pradesh	83,437	83,437	0	0.0	76,172	76,172	0	0.0	76,056	76,054	2	0.0
Maharashtra	150,679	150,663	16	0.0	155,167	155,166	0	0.0	158,295	158,157	137	0.1
Daman & Diu	2,223	2,223	0	0.0	2,574	2,574	0	0.0	2,558	2,558	0	0.0
Dadar Nagar Haveli	5,497	5,497	0	0.0	6,528	6,528	0	0.0	6,303	6,302	0	0.0
Goa	4,083	4,083	0	0.0	4,350	4,350	0	0.0	4,295	4,292	3	0.1
Western Region	388,013	387,975	38	0.0	388,841	388,836	5	0.0	390,349	390,136	212	0.1
Andhra Pradesh	62,080	62,076	4	0.0	65,452	65,414	38	0.1	63,861	63,804	58	0.1
Telangana	66,998	66,994	4	0.0	68,306	68,303	3	0.0	66,489	66,427	62	0.1
Karnataka	68,851	68,831	19	0.0	72,799	72,796	3	0.0	71,764	71,695	69	0.1
Kerala	25,118	25,102	16	0.1	26,315	26,265	50	0.2	25,016	24,898	118	0.5
Tamil Nadu	101,194	101,189	5	0.0	108,816	108,812	4	0.0	109,482	109,380	102	0.1
Puducherry	2,644	2,644	0	0.0	2,847	2,846	1	0.0	2,766	2,756	10	0.3
Lakshadweep #	56	56	0	0	46	46	0	0	46	46	0	0
Southern Region	326,885	326,836	48	0.0	344,535	344,436	99	0.0	339,377	338,960	417	0.1
Bihar	34,171	34,018	153	0.4	31,627	31,533	94	0.3	30,061	29,825	236	0.8
DVC	21,368	21,368	0	0.0	22,429	22,427	2	0.0	22,745	22,372	372	1.6
Jharkhand	9,953	9,675	278	2.8	8,941	8,872	69	0.8	8,737	8,490	247	2.8
Odisha	29,848	29,848	0	0.0	29,692	29,692	0	0.0	32,145	32,115	30	0.1
West Bengal	51,644	51,543	100	0.2	52,948	52,824	124	0.2	51,471	51,287	184	0.4
Sikkim	546	546	0	0.0	554	554	0	0.0	527	527	0	0.1
Andaman-Nicobar #	346	323	23	7	346	323	23	7	346	323	23	7
Eastern Region	147,530	146,999	531	0.4	146,191	145,902	289	0.2	145,686	144,616	1,070	0.7
Arunachal Pradesh	719	714	5	0.7	753	749	4	0.5	869	859	9	1.1
Assam	10,192	9,815	377	3.7	9,804	9,288	516	5.3	9,566	9,238	328	3.4
Manipur	974	969	5	0.5	924	917	6	0.7	905	895	10	1.2
Meghalaya	2,031	2,005	26	1.3	2,112	2,064	48	2.3	1,957	1,956	2	0.1
Mizoram	728	723	4	0.6	647	643	4	0.7	643	635	8	1.2
Nagaland	826	822	4	0.5	814	809	5	0.7	888	795	93	10.5
Tripura*	1,484	1,481	3	0.2	1,538	1,515	23	1.5	1,863	1,841	22	1.2
North-Eastern Region	16,955	16,531	424	2.5	16,591	15,984	607	3.7	16,691	16,219	472	2.8
All India	1,275,534	1,270,663	4,871	0.4	1,291,010	1,284,444	6,566	0.5	1,274,595	1,267,526	7,070	0.6

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

*** Excludes the supply to Bangladesh.**

Note: Power Supply Position Report has been compiled based on the data furnished by State Utilities/ Electricity Departments. The MU figures has been rounded off to nearest unit place.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1674
ANSWERED ON 29.07.2021

REQUIREMENT OF COAL AND GAS FOR POWER PROJECTS

†1674. SHRI GOPAL CHINNAYA SHETTY:

Will the Minister of POWER be pleased to state:

(a) the details of total requirement of coal and gas for each power project so far, State-wise including Maharashtra;

(b) the quantum of coal and gas supplied during the last three years and the current year, year-wise;

(c) whether the supply of coal and gas has been declined;

(d) if so, the details thereof; and

(e) the steps taken or proposed to be taken to meet the demand of coal and gas?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : The total requirement of coal and gas for the power plants (Coal based as well as Gas based) monitored in Central Electricity Authority (CEA), State-wise and plant-wise including in Maharashtra, during 2021-22, is given at Annexure.

(b) : The details of total coal receipt (Domestic as well as Imported coal) by coal based power plants as well as gas receipt/consumed by gas based power plants during last 3 years and the current year (Apr'21- Jun'21) are as under:

	2018-19	2019-20	2020-21	2021-22 (Apr- June)
Total coal Receipt (Domestic + Imported) (Million Tonnes)	643.7	638.7	596.3	171.7
Total Gas Receipt (in MMSCMD*)	30.99	29.50	30.08	25.91

***MMSCMD: Million Metric Standard Cubic Meter per day.**

.....2.

(c) & (d) : The receipt of coal has registered a slight decline during the last three years. However, during 2020-21 the decline was more due to the effect of COVID-19 pandemic prevailing in the country. Moreover, the share of power generation from non-fossil fuels (renewable energy) has also been increasing consistently over the years resulting into reduction in share of power generation from fossil fuels and also leading to reduction in plant load factor of coal based power plants. The gas consumption by gas based power plants is almost consistent at about 30 MMSCMD.

(e) : In order to address the issues of coal supplies to power sector, an Inter-Ministerial Sub Group comprising of representatives from Ministry of Power, Ministry of Coal, Ministry of Railways, Ministry of Shipping, CEA, NTPC and Coal India Limited (CIL)/ Singareni Collieries Company Limited (SCCL) meet regularly to take various operational decisions for meeting any contingent situations relating to Power Sector including critical coal stock position in power plants.

Further, the Government has taken the following steps to help the plants to meet their requirement of coal and gas:

(i) Government in May, 2016 allowed flexibility in utilization of domestic coal by State/Central Gencos amongst their generating stations to reduce the cost of power generation by using coal in most efficient plants as well as by saving in transportation cost. The States may also transfer their linkage coal to Independent Power Producers (IPPs) selected through bidding process and take equivalent power.

(ii) Rationalization of linkage sources of State/Central Gencos and IPPs with a view to optimize transportation cost has been allowed.

(iii) 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 linkage. As per amendment in Shakti Policy dated 25.03.2019, Coal linkage is also allowed for short term sale of power in Day Ahead Market (DAM) through power exchanges or in short term through a transparent bidding process through Discovery of Efficient Energy Price (DEEP) portal.

(iv) Domestic gas is being allocated to the gas based power generating stations as per the availability of domestic gas in the country. Imported RLNG (Regasified Liquefied Natural Gas) is kept under Open General License (OGL) and gas based power plants are free to import RLNG on mutually agreed terms and conditions.

(v) Government has taken several steps to enhance exploration & production of natural gas in the country such as Discovered Small Field Policy, Hydrocarbon Exploration and Licensing Policy, Policy for Extension of Production Sharing Contracts, Policy for early monetization of Coal Bed Methane etc.

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ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1674 ANSWERED IN THE LOK SABHA ON 29.07.2021

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PLANT-WISE AND STATE-WISE COAL REQUIREMENT BASED ON GENERATION TARGET FOR 2021-22		
		Figures in '000T
Sl. No.	Name of TPS	Coal Requirement based on generation target in thousand tonnes (TT)
Haryana		
1	PANIPAT TPS	1418
2	RAJIV GANDHI TPS	3610
3	YAMUNA NAGAR TPS	2594
4	INDIRA GANDHI STPP	2385
5	MAHATMA GANDHI TPS	4428
Punjab		
6	GH TPS (LEH.MOH.)	2265
7	ROPAR TPS	2043
8	RAJPURA TPP	6355
9	TALWANDI SABO TPP	8765
10	GOINDWAL SAHIB TPP	1207
Rajasthan		
11	KOTA TPS	5445
12	SURATGARH TPS	6076
13	CHHABRA TPP	9038
14	KALISINDH TPS	4697
15	KAWAI TPS	4925
Uttar Pradesh		
16	ANPARA TPS	12151
17	HARDUAGANJ TPS	3475
18	JAWAHARPUR STPP	33
19	OBRA TPS	3732
20	OBRA-C STPP	721
21	PARICHHA TPS	3447
22	DADRI (NCTPP)	2727
23	RIHAND STPS	13481
24	SINGRAULI STPS	9315
25	TANDA TPS	6988
26	UNCHAHAR TPS	4490
27	ROSA TPP Ph-I	3639
28	ANPARA C TPS	5443
29	MAQSOODPUR TPS	152
30	KHAMBARKHERA TPS	152
31	BARKHERA TPS	154
32	KUNDARKI TPS	151
33	UTRAULA TPS	162
34	PRAYAGRAJ TPP	6367
35	LALITPUR TPS	6024
36	MEJA STPP	4716
Chhattisgarh		
37	DSPM TPS	2604
38	KORBA-WEST TPS	6735
39	KORBA STPS	12899
40	SIPAT STPS	14242
41	PATHADI TPP	3064
42	BHILAI TPS	2646
43	BALCO TPS	2063
44	MARWA TPS	5342

45	AKALTARA TPS	6763
46	BARADARHA TPS	5470
47	AVANTHA BHANDAR	1691
48	TAMNAR TPP	5938
49	BANDAKHAR TPP	1425
50	NAWAPARA TPP	2554
51	OP JINDAL TPS	1930
52	BINJKOTE TPP	1973
53	LARA TPP	4862
54	RAIKHEDA TPP	4127
55	UCHPINDA TPP	2594
56	CHAKABURA TPP	37
57	KASAIPALLI TPP	311
58	RATIJA TPS	112
Gujarat		
59	SABARMATI (D-F STATIONS)	1175
60	SIKKA REP. TPS	1126
61	GANDHI NAGAR TPS	1355
62	UKAI TPS	4361
63	WANAKBORI TPS	6546
64	MUNDRA UMTPP	10516
65	SALAYA TPP	2489
66	MUNDRA TPS	16767
Madhya Pradesh		
67	AMARKANTAK EXT TPS	933
68	SANJAY GANDHI TPS	5723
69	SATPURA TPS	2860
70	SHREE SINGAJI TPP	9526
71	VINDHYACHAL STPS	24260
72	GADARWARA TPP	4148
73	KHARGONE STPP	1621
74	BINA TPS	1804
75	ANUPPUR TPP	4839
76	SASAN UMTPP	17467
77	NIGRI TPP	3889
78	MAHAN TPP	3355
79	SEIONI TPP	2164
80	NIWARI TPP	78
Maharashtra		
81	BHUSAWAL TPS	6275
82	CHANDRAPUR(MAHARASHTRA) STPS	15111
83	KHAPARKHEDA TPS	7502
84	KORADI TPS	9835
85	NASIK TPS	2673
86	PARLI TPS	2453
87	PARAS TPS	2642
88	TIRORA TPS	14087
89	DAHANU TPS	2621
90	AMRAVATI TPS	2895
91	GMR WARORA TPS	2722
92	MAUDA TPS	3171
93	JSW RATNAGIRI TPP	3607
94	WARDHA WARORA TPP	760
95	DHARIWAL TPP	1553
96	TROMBAY TPS	2034
97	SOLAPUR STPS	1628
98	BELA TPS	131
Andhra Pradesh		
99	Dr. N.TATA RAO TPS	11391
100	RAYALASEEMA TPS	6594
101	SIMHADRI	5549

102	DAMODARAM SANJEEVAIAH TPS	7223
103	SIMHAPURI TPS	59
104	THAMMINAPATNAM TPS	77
105	VIZAG TPP	1964
106	PAINAMPURAM TPP	6450
107	SGPL TPP	5040
Karnataka		
108	RAICHUR TPS	7020
109	BELLARY TPS	5008
110	UDUPI TPP	1686
111	TORANGALLU TPS(SBU-II)	606
112	TORANGALLU TPS(SBU-I)	443
113	KUDGI STPP	1130
114	YERMARUS TPP	3850
Tamil Nadu		
115	METTUR TPS	4545
116	NORTH CHENNAI TPS	10032
117	TUTICORIN TPS	4636
118	METTUR TPS - II	2633
119	VALLUR TPP	6308
120	MUTHIARA TPP	2648
121	TUTICORIN (JV) TPP	3865
122	ITPCL TPP	3244
123	TUTICORIN TPP ST-IV	976
Telangana		
124	BHADRADRI TPP	3656
125	RAMAGUNDEM STPS	10105
126	KAKATIYA TPS	4088
127	RAMAGUNDEM-B TPS	294
128	KOTHAGUDEM TPS (NEW)	4660
129	KOTHAGUDEM TPS (STAGE-7)	3968
130	SINGARENI TPP	5399
131	TELANGANA STPP	147
Bihar		
132	MUZAFFARPUR TPS	2446
133	KAHALGAON TPS	8876
134	BARH I	935
135	BARH II	5694
136	BARAUNI TPS	1077
137	NABINAGAR TPP	3802
138	NABINAGAR STPP	3834
Jharkhand		
139	CHANDRAPURA(DVC) TPS	1915
140	TENUGHAT TPS	1642
141	BOKARO `B` TPS	265
142	BOKARO TPS `A` EXP	1807
143	MAITHON RB TPP	4400
144	KODARMA TPP	3723
145	NORTH KARANPURA TPP	262
146	MAHADEV PRASAD STPP	2378
147	JOJOBERA TPS	1019
Odisha		
148	IB VALLEY TPS	7721
149	DARLIPALI STPS	4100
150	TALCHER (OLD) TPS	3010
151	TALCHER STPS	15934
152	ROURKELA PP-II EXPANSION	302
153	STERLITE TPP	1147
154	KAMALANGA TPS	5542
155	DERANG TPP	2862

West Bengal		
156	DURGAPUR TPS	290
157	BAKRESWAR TPS	4943
158	MEJIA TPS	8699
159	BANDEL TPS	834
160	D.P.L. TPS	1924
161	KOLAGHAT TPS	3839
162	SAGARDIGHI TPS	5016
163	SANTALDIH TPS	2363
164	BUDGE BUDGE TPS	3328
165	SOUTHERN REPL. TPS	218
166	FARAKKA STPS	7632
167	DURGAPUR STEEL TPS	4163
168	HALDIA TPP	2900
169	RAGHUNATHPUR TPP	3906
170	HIRANMAYE TPP	673
Assam		
171	BONGAIGAON TPP	1678

State-wise and Plant-wise Gas Requirement		
S. No.	Name of Power Station	Gas Requirement (in MMSCMD)
ANDHRA PRADESH		
1	GODAVARI (JEGURUPADU)	1.12
2	GAUTAMI CCPP	2.21
3	GMR - KAKINADA (Tanirvavi)	1.05
4	GMR-Rajamundry Energy Ltd.	3.67
5	GODAVARI (SPECTRUM)	0.99
6	JEGURUPADU CCPP (GVK) PHASE- II	1.05
7	KONASEEMA CCPP	2.12
8	KONDAPALLI EXTN CCPP .	1.75
9	KONDAPALLI ST-3 CCPP (LANCO)	3.54
10	KONDAPALLI CCPP (LANCO)	1.76
11	PEDDAPURAM (BSES)	1.05
12	VEMAGIRI CCPP	1.77
13	VIJESWARAN CCPP	1.30
14	PCIL POWER AND HOLDINGS Ltd*	0.14
15	RVK ENERGY*	0.13
16	SILK ROAD SUGAR*	0.17
17	LVS POWER	0.26
ASSAM		
18	KATHALGURI (NEEPCO)	1.39
19	LAKWA GT (ASEB, Maibella)	0.46
20	LAKWA Replacement CCPP***	0.33
21	NAMRUP CCPP + ST (APGCL)	0.78
22	DLF ASSAM GT*	0.12
DELHI		
23	I.P.CCPP	1.29
24	PRAGATI CCGT-III	7.16
25	PRAGATI CCPP	1.58
26	RITHALA CCPP (NDPL)	0.52
GUJARAT		
27	NTPC, GANDHAR(JHANORE) CCPP	3.14
28	NTPC, KAWAS CCPP	3.13
29	DHUVARAN CCPP(GSECL)	2.84
30	HAZIRA CCPP(GSEG)	0.75
31	HAZIRA CCPP EXT	1.68

32	PIPAVAV CCPP	3.35
33	UTRAN CCPP (GSECL)	1.79
34	BARODA CCPP (GIPCL)	0.76
35	ESSAR CCPP	1.43
36	PAGUTHAN CCPP (CLP)	3.13
37	SUGEN CCPP (TORRENT)	5.48
38	UNOSUGEN CCPP	1.83
39	DGEN Mega CCPP	5.73
HARYANA		
40	NTPC, FARIDABAD CCPP	2.06
MAHARASHTRA		
41	RATNAGIRI (RGPPL-DHABHOL)	9.39
42	URAN CCPP (MAHAGENCO)	3.21
43	TROMBAY CCPP (TPC)	0.86
44	MANGAON CCPP	1.85
PUDUCHERRY		
45	KARAIKAL CCPP (PPCL)	0.16
RAJASTHAN		
46	NTPC, ANTA CCPP	2.00
47	DHOLPUR CCPP	1.58
48	RAMGARH (RRVUNL,Jaisalmer)	1.31
TAMIL NADU		
49	KOVIKALPAL (THIRUMAKOTTAI)	0.51
50	KUTTALAM (TANGEDCO)	0.48
51	VALUTHUR CCPP	0.89
52	KARUPPUR CCPP (LANCO TANJORE)	0.57
53	P.NALLUR CCPP (PPN)	1.58
54	VALANTARVY CCPP	0.25
TRIPURA		
55	AGARTALA GT+ST (NEEPCO)	0.64
56	MONARCHAK(NEEPCO)	0.48
57	TRIPURA CCPP (ONGC)	3.47
58	BARAMURA GT (TSECL)	0.28
59	ROKHIA GT (TSECL)	0.53
UTTAR PRADESH		
60	NTPC, AURAIYA CCPP	3.17
61	NTPC, DADRI CCPP	3.96
UTTARAKHAND		
62	GAMA CCPP	1.07
63	KASHIPUR CCPP (Sravanthi)	1.07

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1683
ANSWERED ON 29.07.2021

NEW POWER PROJECTS

†1683. SHRI HEMANT SRIRAM PATIL:

Will the Minister of POWER
be pleased to state:

(a) whether the Government proposes to set up new power projects;

(b) if so, the number of new power projects proposed in Maharashtra;

(c) whether there is a proposal to set up a power project at Sahastrakund in Hingoli district of Maharashtra; and

(d) if so, the details thereof and the time by which the said project is likely to be commenced?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : Generation is a delicenced activity under Electricity Act 2003. Electricity Generation projects are set up by various utilities and State / Central Public Sector Undertakings (CPSUs) keeping in view the demand for power and techno-commercial viability. As per information provided by Government of Maharashtra, Maharashtra State Power Generation Company Limited (MSPGCL) has proposed 2x660 MW Coal based super critical Thermal Power Project at Koradi Thermal Power Station (TPS), District Nagpur, Maharashtra. The proposed project is against retired/retiring units of MSPGCL. Government of Maharashtra has given in-principle approval for implementation of the project. MSPGCL has also proposed to retrofit the existing Combined Cycle Power Plant(CCPP) units of total existing capacity of 672 MW at Gas Turbine Power Station (GTPS), Uran, District Raigad, Maharashtra, with new State-of-Art technology, highly efficient units which will enhance the existing capacity to 800 MW.

Further, Water Resources Department, Government of Maharashtra is planning to set up the following 4 new Pumped Storage Schemes (Hydro Projects) which are presently at DPR (Detailed Project Report) stage:-

1) **Varasgaon Pumped Storage Schemes- 4X300 MW**
2) **Panshet Pumped Storage Schemes- 4X400 MW**
3) **Varadhghat Pumped Storage Schemes- 2X400 MW**
4) **Chikhaldara Pumped Storage Schemes- 2X200 MW**

(c) & (d): A small Hydro Project of 20 MW capacity is proposed at Sahastrakund by Water Resources Department, Government of Maharashtra, which is under preliminary survey.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1717
ANSWERED ON 29.07.2021

SETTING UP OF NTPC PLANT

†1717. SHRI ASHOK KUMAR RAWAT:

Will the Minister of POWER be pleased to state:

(a) whether the Government has taken any decision for setting up of NTPC plant at Bilhaur in Kanpur district of Uttar Pradesh;

(b) if so, the details along with the present status thereof;

(c) the quantum of funds likely to be spent on its establishment; and

(d) the time by which the said plant is likely to be established?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (d) : NTPC's Bilhaur Solar Project (225 Megawatt) in Kanpur district of Uttar Pradesh has been fully commissioned on 08.04.2021. The expenditure incurred on Bilhaur Solar Project (225 Megawatt) till 30.06.2021 is Rs.907.42 Crore.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1720
ANSWERED ON 29.07.2021

INSTALLATION AND DEVELOPMENT OF POWER PROJECTS

†1720. SHRI SADASHIV KISAN LOKHANDE:

Will the Minister of POWER
be pleased to state:

(a) whether the Government has received proposals from various State Governments for installation and development of power projects during the last three years;

(b) if so, the details thereof, State-wise;

(c) whether the Union Government has taken/is taking any action to sanction these power projects;

(d) if so, the details of the agreements signed with the States thereof; and

(e) the quantum of funds allocated for the said purpose, State-wise?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (e) : As per Section-7 of The Electricity Act, 2003, concurrence of Central Government is not required for setting up of Thermal Power Projects. No proposal has been received from any State Government in last three years for installation and development of Thermal Power Projects.

Further, as per Section-8(1) of The Electricity Act, 2003, any generating company intending to set up a hydro generating station is required to prepare and submit to the Central Electricity Authority for its concurrence, a scheme estimated to involve a capital expenditure exceeding such sum (presently, Rs. 1000 crore), as may be fixed by the Central Government, from time to time, by notification. In last three years, only Bihar State Hydro-Electric Power Corporation (BSHPCL), Government of Bihar has submitted the Detailed Project Report (DPR) of 130.1 MW Dagmara HEP with an estimated cost of Rs. 1951.15 Crore to CEA on 08.06.2021 for seeking its concurrence. A Memorandum of Understanding has been signed on 14.06.2021 between BSHPCL, Govt. of Bihar and NHPC Ltd., a CPSU of Ministry of Power, for allotting the 130.1 MW Dagmara HEP on ownership basis to NHPC Ltd. based on mutually acceptable terms and conditions. As per the Hydro Policy directions issued on 08.03.2019, there is a provision for allotment of funds for enabling infrastructure and flood moderation to eligible hydro projects as per norms and following due procedure. Funds are allotted on receipt of application from project proponents.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1737
ANSWERED ON 29.07.2021

ACHIEVEMENTS MADE UNDER DDUGJY

†1737. SHRI NARENDRA KUMAR:

Will the Minister of POWER
be pleased to state:

(a) the details of the achievements made under Deendayal Upadhyay Gram Jyoti Yojana (DDUGJY);

(b) the number of rural infrastructure constructed thereunder; and

(c) the number of villages electrified in the country under the said yojana?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : Government of India had launched Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) in December, 2014 for rural electrification works across the country. As reported by the States, all the inhabited un-electrified census villages stand electrified as on 28th April, 2018 across the country under DDUGJY. In all, 19,779 unelectrified census villages were reported to be electrified from 2014-15 till28.04.2018. Details of infrastructure created under 'DDUGJY new projects and Additional Infra' category (upto 30th June, 2021) are as under:

Sl. No.	Items	
1	Sub-stations (including augmentation)	4194
2	Distribution Transformers	600679
3	Feeder Segregation (ckm)	129306
4	11 kV lines (ckm)	181558
5	LT lines (ckm)	478197
6	33 kV & 66 kV lines (ckm)	22549
7	Consumer Energy Meters	15430154
8	Distribution Transformers Meters	249186
9	11 kV Feeder Meters	13851

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1742
ANSWERED ON 29.07.2021

ONGOING POWER PROJECTS

†1742. SHRI SUMEDHANAND SARASWATI:
SHRI BALAK NATH:

Will the Minister of POWER
be pleased to state:

(a) the details of the ongoing power projects in the country at present along with the quantum of power generated through these projects, State-wise including Rajasthan, Haryana and Gujarat;

(b) the quantum of funds sanctioned, allocated and utilised under the said projects across the country during the last three years and the current year;

(c) whether the said projects are being completed in a time bound manner;

(d) if so, the details thereof and the reasons therefor; and

(e) the action taken by the Government for timely completion of the said projects?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (e) : At present 37 Hydro Electric Projects (HEPs) (above 25 MW) aggregating to 12,763.5 MW are under construction in the country. The details of funds sanctioned, allocated & utilised, during the last three years and the current year, along with details of time overrun in respect of the under-construction Hydro-electric projects are given at Annexure-I. These projects are under construction, so no generation is taking place in these power projects.

In respect of Thermal Power Projects, as per Section 7 of the Electricity Act, 2003, "any generating company may establish, operate and maintain a generating station without obtaining a license/permission under this Act, if it complies with the technical standards relating to connectivity with the grid. Accordingly, sanction of the Government is not required for setting up of thermal power projects." At present 56 Thermal Power Projects aggregating to 56,650 MW are under construction in the country. Out of 56 thermal power projects, 13 projects aggregating to capacity of 8,575 MW are partially commissioned and generated electricity (from April-2020 to June-2021) aggregating to 44,647 BU. The details of funds sanctioned, allocated & utilised under these projects during the last three years and the current year, along with details of time overrun are given at Annexure-II.

.....2.

The main reasons for delay in completion of Hydro and Thermal projects are as under:

- **Work slowed due to COVID pandemic**
- **Contractual Issues**
- **Lack of readiness of railway line / Railway sidings**
- **Delay in supply by equipment manufacturers**
- **Delay in land acquisitions**
- **Disruption of work due to Local issues**
- **Litigations**
- **Delay due to change in design**
- **Delay in getting coal mines, coal linkages**
- **Geological surprises (in case of hydro projects)**

The following action/steps are taken by the Ministry of Power (MoP)/ Central Electricity Authority (CEA) to ensure timely completion of Power Projects:

- **MoP/ CEA monitor the progress of under-construction power projects through frequent site visits and interaction with the developers & other stakeholders. CEA holds review meetings periodically with the developers and other stakeholders to identify and resolve issues critical for commissioning of Projects.**

- **Regular reviews are also undertaken in MoP to identify the constraint areas to facilitate faster resolution of inter-Ministerial and other outstanding Issues.**

- **In case of Central Power Sector Undertakings (CPSUs) projects, the project implementation parameters/ milestones are incorporated in the annual MoU signed between respective CPSUs and Ministry of Power and the same are monitored during the quarterly performance review meetings of CPSUs and other meetings held in MoP/CEA.**

- **Various matters related with project implementation are being taken up with State Government/District Administration for facilitating the support in resolving the issues to the project implementing agencies.**

- **Matters are taken up with State Government/District Administration for extending help to the project implementing agencies in resolving Right of Way (ROW) issues.**

- **As and when required, issues are also reviewed in the PRAGATI portal of PMO for proactive governance and timely implementation.**

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 1742 ANSWERED IN THE LOK SABHA ON 29.07.2021

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DETAILS OF UNDER CONSTRUCTION HYDRO ELECTRIC PROJECTS (ABOVE 25 MW)

Sl. No.	Project Name/(I.C.)/ Executing Agency	Unit No.	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Time over run (months)	Expenditure Incurred (Rs. in Crore)			
							2018-19	2019-20	2020-21	2021-22 (Till June-2021)
1	2	3	4	5	6	7	8	9	10	11
	Andhra Pradesh									
1	Polavaram (12x80 = 960 MW) APGENCO / Irr. Deptt., A.P.	1	80	2016-17	2024-25	96	92.87	6.84	36.63	0.42
		2	80	2016-17	2024-25					
		3	80	2016-17	2024-25					
		4	80	2016-17	2024-25					
		5	80	2016-17	2024-25					
		6	80	2016-17	2024-25					
		7	80	2017-18	2025-26	96				
		8	80	2017-18	2025-26					
		9	80	2017-18	2025-26					
		10	80	2017-18	2025-26					
		11	80	2017-18	2025-26					
		12	80	2017-18	2025-26					
				(Mar'18)	(Mar,26) (subject to re-start of works)					
	Arunachal Pradesh									
2	Subansiri Lower (8x250 = 2000 MW) NHPC	1	250	2009-11	2023-24	155	765.55	1407.67	1380.72	444.72
		2	250	2009-11	2023-24					
		3	250	2009-11	2023-24					
		4	250	2009-11	2023-24					
		5	250	2009-11	2023-24					
		6	250	2009-11	2023-24					
		7	250	2009-11	2023-24					
		8	250	2009-11	2023-24					
				(Sep'10)	(Aug'23)					
	Assam									
3	Lower Kopili (2x55+2x2.5+1x5 =120MW)	1	55	2024-25	2024-25	NIL	63.80	#	#	11.23
		2	55	2024-25	2024-25					
		3	5	2024-25	2024-25					
		4	2.5	2024-25	2024-25					
		5	2.5	2024-25	2024-25					
				(Jun'24)	(Jun'24)					
	Himachal Pradesh									
4	Parbati - II (4x200 = 800 MW) NHPC	1	200	2009-10	2022-23	162	574.54	599.16	989.94	217.06
		2	200	2009-10	2022-23					
		3	200	2009-10	2022-23					
		4	200	2009-10	2022-23					
				(Sept'09)	(Mar,23)					
5	Uhl-III (3x33.33 = 100 MW) BVPCL	1	33.33	2006-07	2022-23	189	253.36	352.22	156.87	34.33
		2	33.33	2006-07	2022-23	189				
		3	33.33	2006-07	2022-23	189				
				(Mar'07)	(Dec,22)					
6	ShongtomKarcham (3x150 = 450 MW) HPPCL	1	150	2016-17	2024-25	92	260.49	172.15	230.12	-
		2	150	2016-17	2024-25	94				
		3	150	2016-17	2024-25	96				
				(Mar'17)	(Mar,25)					
7	Bajoli Holi 3x60= 180 MW M/s GMR Bajoli Holi	1	60	2018-19	2021-22	40	435	293	588	127
		2	60	2018-19	2021-22					
		3	60	2018-19	2021-22					
				(May'18)	(Sept,21)					

*Construction is held-up.

@ No expenditure done during the year as construction is held-up.

Project was not under construction during the year. Construction started in later years.

8	Sorang (2x50 = 100 MW), HSPPL	1 2	50 50	2011-12 2011-12 (Nov'11)	2021-22 2021-22 (Jul'21)	116	-	91.08	177.83	-
9*	Tangnu Romai-I (2x22 = 44 MW) TRPGPL	1 2	22 22	2014-15 2014-15 (Jun'14)	2024-25 2024-25 (subject to re-start of works(4 years))	129	@	@	@	@
10	Tidong-I 2x50 =100 MW NSL Tidong (w.e.f. 04.09.2018 Statkraft India Pvt. Ltd. Has acquired the 100% equity in the project)	1 2	50 50	2013-14 2013-14 (Dec'13)	2022-23 2022-23 (Jun 22)	102	456	616.26	78	185
11	Kutehr 3x80=240 MW JSW Energy (Kutehr) Ltd	1 2 3	80 80 80	2024-25 2024-25 2024-25 (Nov'24)	2025-26 2025-26 2025-26 (Nov'25)	12	#	#	413	-
12	Luhri-I 2X80+2X25=210 MW (SJVN)	1 2 3 4	80 80 25 25	2025-26	2025-26	-	104	178.18	239.77	40
13	Dhaulasidh (SJVN) 2x33=66 MW	1 2	33 33	2025-26	2025-26	-	#	#	#	5
	Govt. of UT of J&K									
14	PakalDul (4x250= 1000 MW) CVPPL	1 2 3 4	250 250 250 250	2020-21 2020-21 2020-21 2020-21 (Apr'20)	2025-26 2025-26 2025-26 2025-26 (July'25)	63	173.60	251.04	429.55	173.13
15	Parnai 3x12.5= 37.5 MW JKSPDC	1 2 3	12.5 12.5 12.5	2017-18 2017-18 2017-18 (Jan'18)	2022-23 2022-23 2022-23 (Mar,23)	62	53.12	32.07	17.95	6.08
16 *	Lower Kalnai 2x24= 48 MW JKSPDC	1 2	24 24	2017-18 2017-18 (Sep'17)	2025-26 2025-26 (subject to re-start of works (4 years))	102	@	@	@	@
17	Kiru (4x156=624 MW) CVPPL	1 2 3 4	156 156 156 156	2023-24 2023-24 2023-24 2023-24 (Aug,23)	2024-25 2024-25 2024-25 2024-25 (Aug,24)	12	24.96	177.25	185.68	55.15
18 *	Ratle (4x205+1x30) = 850 MW RHPPL / NHPC	1 2 3 4 5	205 205 205 205 30	2017-18 2017-18 2017-18 2017-18 2017-18 (Jan,18)	2025-26 2025-26 2025-26 2025-26 2025-26 (subject to re-start of works(5 years)	96	@	@	@	53.50
	Kerala									
19	Pallivasal 2x30 = 60 MW KSEB	1 2	30 30	2010-11 2010-11 (Mar'11)	2021-22 2021-22 (Dec,21)	129	43.01	53.31	39.25	8.45
20	Thottiyar (1x30+1x10)= 40MW KSEB	1 2	30 10	2012-13 2012-13 (Apr'12)	2021-22 2021-22 (Dec,21)	116	2.53	13.59	47.04	3.85

*Construction is held-up.

@ No expenditure done during the year as construction is held-up.

Project was not under construction during the year. Construction started in later years.

	Madhya Pradesh									
21*	Maheshwar (10x40 = 400 MW) SMHPCL	1 2 3 4 5 6 7 8 9 10	40 40 40 40 40 40 40 40 40 40	2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 (Mar'02)	2023-24 (subject to re-start of works(Two years)	264	Nil	@	@	Nil
	Maharashtra									
22*	Koyna Left Bank PSS 2x40 = 80 MW WRD, Maha	1 2	40 40	2014-15 2014-15 (Oct'14)	2025-26 (subject to re-start of works (4 years)	137	@	@	@	@
	Punjab									
23	Shahpurkandi 3x33+3x33+1x8 =206 MW, Irrigation Deptt. &PSPCL	1 2 3 4 5 6 7	33 33 33 33 33 33 8	2015-16 2015-16 2015-16 2015-16 2015-16 2015-16 2015-16	2023-24 2023-24 2023-24 2023-24 2023-24 2023-24 2023-24 (Dec, 23)	93	79.96	332.85	1019.49	-
	Sikkim									
24	Teesta Stage VI (4x125 = 500 MW) Lanco Teesta Hydro Power Ltd. (LTHPL) (Project taken over by NHPC w.e.f. 08.03.2019)	1 2 3 4	125 125 125 125	2012-13 2012-13 2012-13 2012-13 (Jul'12)	2023-24 2023-24 2023-24 2023-24 (Mar,24)	140	@	@	@	45
25*	Bhasmey (2x25.5 =51 MW) Gati Infrastructure	1 2	25.5 25.5	2012-13 2012-13 (Jun'12)	2024-25 2024-25 (subject to re-start of works(3 years))	153	@	@	@	-
26*	Rangit-IV HE Project (3X40 = 120 MW) JPCL	1 2 3	40 40 40	2011-12 2011-12 2011-12 (Jan'12)	2025-26 2025-26 2025-26 (subject to re-start of works(3-½ year)	170	@	@	@	-
27*	Rangit-II 2x33= 66 MW Sikkim Hydro Power Ltd.	1 2	33 33	2015-16 2015-16 (Apr'15)	2024-25 2024-25 (subject to re-start of works(2-½ years))	119	1.07	@	@	@
28*	Panan 4x75= 300 MW Himagiri Hydro Energy Pvt. Ltd.	1 2 3 4	75 75 75 75	2018-19 2018-19 2018-19 2018-19	2025-26 2025-26 2025-26 2025-26 (subject to re-start of works(4-½ years)	84	@	@	@	0.05

*Construction is held-up.

@ No expenditure done during the year as construction is held-up.

Project was not under construction during the year. Construction started in later years.

	Tamil Nadu									
29	KundahPSP (Phase-I, Phase-II & Phase-III) (4x125=500 MW) TANGEDCO	1 2 3 4	125 125 125 125	2021-22 2021-22 2021-22 2021-22 (Aug,21)	2023-24 2023-24 2023-24 2023-24 (April,23)	20	50.84	79.39	42.13	32.52
	Uttartakhand									
30*	Lata Tapovan (3x57 = 171 MW) NTPC	1 2 3	57 57 57	2017-18 2017-18 2017-18 (Aug'17)	2025-26 2025-26 2025-26 (subject to re-start of works(4 years)	103	@	@	0.30	@
31	Tapovan Vishnughad (4x130 = 520 MW) NTPC	1 2 3 4	130 130 130 130	2012-13 2012-13 2012-13 2012-13 (Mar'13)	2023-24 2023-24 2023-24 2023-24	132	414.11	527.07	425.99	96.30
32	Tehri PSS (4x250 = 1000 MW) THDC	1 2 3 4	250 250 250 250	2010-11 2010-11 2010-11 2010-11 (July'10)	2022-23 2022-23 2022-23 2022-23 (Dec'22)	149	310.46	582.46	565.59	103.19
33	Naitwar Mori (2x30 = 60 MW) SJVNL	1 2	30 30	2021-22 2021-22 (Dec'21)	2022-23 2022-23 (Jun'22)	6	99	156.97	214.15	49
34	VishnugadPipalkoti (4x111 = 444 MW) THDC	1 2 3 4	111 111 111 111	2013-14 2013-14 2013-14 2013-14 (Jun'13)	2023-24 2023-24 2023-24 2023-24 (Dec'23)	126	250.47	332.63	270.96	45.40
35	Vyasi 2x60=120 MW, UJVNL	1 2	60 60	2014-15 2014-15 (Dec'14)	2022-23 2022-23 (Apr,22)	88	395.06	387.41	355.61	116.40
36*	Phata Byung (2x38 = 76 MW), LANCO	1 2	38 38	2012-13 2012-13 (Jun'12)	2024-25 2024-25 (subject to re-start of works(3 years))	153	@	@	@	@
	West Bengal									
37	Rammam-III (3x40= 120 MW)	1 2 3	40 40 40	2019-20 2019-20 2019-20 (Sep'19)	2022-23 2022-23 2022-23 (Nov,22)	38	104.19	70.11	142.20	10

***Construction is held-up.**

@ No expenditure done during the year as construction is held-up.

 # Project was not under construction during the year. Construction started in later years.

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 1742 ANSWERED IN THE LOK SABHA ON 29.07.2021

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DETAILS OF UNDER CONSTRUCTION THERMAL PROJECTS

Sl. No.	State	Implementing Agency	Project Name	Unit No.	Capacity (MW)	Original Trial Run/ COD	Anticipated Trail Run/ COD (given by Project Authority)	Expenditure (in Rs. Crore)				Time over run (months)
								2018-19	2019-20	2020-21	2021-22 till May-21	
CENTRAL SECTOR												
1	Bihar	NTPC	Barh STPP-I	U-1	660	Feb-10	Jul-21	1453.9	1502.5	1123.15	138.62	137.00
		NTPC		U-2	660	Dec-10	Mar-22					135.00
		NTPC		U-3	660	Oct-11	Jul-23					141.00
2	Bihar	NTPC &JV of RLY	Nabi Nagar TPP	U-4	250	Jun-14	Aug-21	620.79	399.42	356.48	28.8	86.00
3	Bihar	NPGCL	New Nabi Nagar TPP	U-3	660	May-18	Nov-21	1786	1373.2	1243.28	26	42.00
4	Jharkhand	NTPC	North Karanpura STPP	U-1	660	Jun-18	Dec-21	1747.9	1762.6	1243.28	102.59	42.00
		NTPC		U-2	660	Dec-18	Jun-22					42.00
		NTPC		U-3	660	Jun-19	Dec-22					42.00
5	Odisha	NTPC	Darlipalli STPP*	U-2	800	Dec-18	Jul-21	1598.3	1824.6	775.27	115.01	31.00
6	Telangana	NTPC	Telangana STPP St- I	U-1	800	May-20	Mar-22	2535.7	2599.5	1308.35	149.94	22.00
		NTPC		U-2	800	Nov-20	Jul-22					20.00
7	UP	JV of NLC and UPRVUNL	Ghatampur TPP	U-1	660	May-20	Nov-21	3517.8	3525.2	2253.18	398.84	18.00
		JV of NLC and UPRVUNL		U-2	660	Nov-20	Mar-22					16.00
		JV of NLC and UPRVUNL		U-3	660	May-21	Jul-22					14.00

8	Rajasthan	NLC	Barsingar TPP ext	U-1	250			3.67	-	-		N.A
9	Rajasthan	NLC	Bithnok TPP	U-1	250			3.67	-	-		N.A
10	Jharkhand	JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.	Patratu STPP	U-1	800	Jan-22	Aug-23	745.41	1392	1813.96	172.66	19.00
		JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.		U-2	800	Jul-22	Feb-24					19.00
		JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.		U-3	800	Jan-23	Aug-24					19.00
11	Odisha	JV of NTPC & Steel Authority of India (SAIL)	Rourkela PP-II Expansion	U-1	250	Oct-18	Oct-21	448.96	354.67	249.47	11.02	36.00
12	Uttar Pradesh	THDC	Khurja SCTPP	U-1	660	Jul-23	Jan-24	148.87	439.95	89.34	39.03	6.00
		THDC		U-2	660	Jan-24	Jul-24					6.00
13	Bihar	SJVN	Buxar TPP	U-1	660	Jul-23	Jul-23	68.21	344.5	1100.05	37.11	0.00
		SJVN		U-2	660	Jan-24	Jan-24					0.00
STATE SECTOR												
1	A.P	APGENCO	Dr.Narla Tata Rao TPS St-V	U-1	800	Apr-19	Oct-21	1495.2	1032	585	120.95	30.00
2	A.P	APGENCO	Sri Damodaran Sanjeevaiah TPP St-II	U-1	800	Jun-19	Aug-21	2886.7	1062	885.35	122.88	26.00
3	Rajasthan	RRVUNL	Suratgarh SCTPP	U-8	660	Nov-16	Jul-21	1053.2	1102.7	1056.18	319.81	56.00
4	Telangana	TSGENCO	Bhadradri TPP	U-4	270	Sep-17	Aug-21	2512.2	1759.3	1066.95		47.00
5	TN	TSGENCO	Ennore exp. SCTPP	U-1	660			-	-	-		N.A
6	TN	TANGEDCO	Ennore SCTPP	U-1	660	Nov-17	Mar-23	2081.2	710.6	407.38	0	64.00
		TANGEDCO		U-2	660	Jan-18	Apr-23					63.00
7	TN	TANGEDCO	North Chennai TPP St-III	U-1	800	Apr-19	Feb-22	2243.5	2090.6	928.95	40	34.00
8	TN	TANGEDCO	Uppur Super Critical TPP	U-1	800	Feb-21	May-24	1594.2	924.32	366.61	0	39.00
		TANGEDCO		U-2	800	Feb-21	Jul-24					41.00

9	UP	UPRVUNL	Harduaganj TPS Exp-II	U-1	660	Jan-20	Sep-21	1223.8	1339.2	775.91	29.82	20.00
10	Karnataka	KPCL	Yelahanka CCPP	GT+ST	370	Jul-18	Nov-21	140.93	171.41	219.28		40.00
11	UP	UPRVUNL	Jawaharpur STPP	U-1	660	Dec-20	Dec-22	991	2286	1211.45	151.79	24.00
		UPRVUNL		U-2	660	Apr-21	Jun-23					26.00
12	UP	UPRVUNL	Obra-C STPP	U-1	660	Dec-20	Jan-23	901.83	1960	1560.21		25.00
		UPRVUNL		U-2	660	Apr-21	May-23					25.00
13	Telangana	TSGENCO	Yadadri TPS	U-1	800	Feb-23	Feb-23	2129.2	2935.6	4427.54	29.89	0.00
		TSGENCO		U-2	800	Mar-23	Mar-23					0.00
		TSGENCO		U-3	800	Apr-23	Apr-23					0.00
		TSGENCO		U-4	800	May-23	May-23					0.00
		TSGENCO		U-5	800	Jun-23	Jun-23					0.00
14	UP	UPRVUNL	Panki TPS Extn.	U-1	660	Sep-21	Sep-22	543.29	837.26	1131.47	1.75	12.00
15	TN	TANGEDCO	Udangudi STPP Stage I	U-1	660	Mar-21	May-22	336.43	654.76	1778.57		14.00
		TANGEDCO		U-2	660	May-21	Jul-22					14.00
16	Maharashtra	MAHAGENCO	Bhusawal TPS	U-6	660	May-22	Nov-22	59.41	584.06	2025.32	97.76	6.00
17	West Bengal	WBPDCL	Sagardighi Thermal Power Plant Ph-III	U-1	660	Jan-24	Jan-24	70	56.25	362.47	76.08	0.00
PRIVATE SECTOR												
1	AP	East Coast Energy Ltd.	Bhavanapadu TPP Ph-I	U-1	660			-	-	-		N.A
		East Coast Energy Ltd.		U-2	660							N.A
2	AP	Meenakshi Energy Pvt. Ltd.	Thamminapatnam TPP stage -II	U-3	350			334.5	-	-		N.A
		Meenakshi Energy Pvt. Ltd.		U-4	350							N.A
3	Chhattisgarh	KSK Mahandi Power Company Ltd	Akaltara TPP	U-4	600			-	-	-		N.A
		KSK Mahandi Power Company Ltd		U-5	600							N.A
		KSK Mahandi Power Company Ltd		U-6	600							N.A
4	Bihar	(Jas Infra. TPP) / JICPL	Siriya TPP	U-1	660			-	-	-		N.A
		(Jas Infra. TPP) / JICPL		U-2	660							N.A
		(Jas Infra. TPP) / JICPL		U-3	660							N.A
		(Jas Infra. TPP) / JICPL		U-4	660							N.A
5	Chhattisgarh	SKS Power Generation (Chhattisgarh) Ltd.	Binjkote TPP	U-3	300			-	-	-		N.A
		SKS Power Generation (Chhattisgarh) Ltd.		U-4	300							N.A
6	Chhattisgarh	LAP Pvt. Ltd.	Lanco Amarkantak TPP-II	U-3	660			-	-	-		N.A
		LAP Pvt. Ltd.		U-4	660							N.A
7	Chhattisgarh	Athena Chhattisgarh Power Ltd.	Singhitarai TPP	U-1	600			-	-	-		N.A
		Athena Chhattisgarh Power Ltd.		U-2	600							N.A
8	Chhattisgarh	Vandana Vidyut	Salora TPP	U-2	135			-	-	-		N.A

9	Chhattisgarh	Visa Power Ltd.	Deveri (Visa) TPP	U-1	600			-	-	-		N.A
10	Jharkhand	Corporate Power Ltd.	Matrishri Usha TPP Ph-I	U-1	270			-	-	-		N.A
		Corporate Power Ltd.		U-2	270							N.A
11	Jharkhand	Corporate Power Ltd.	Matrishri Usha TPP Ph-II	U-3	270			-	-	-		N.A
		Corporate Power Ltd.		U-4	270							N.A
12	Jharkhand	Essar Power Ltd	Tori TPP Ph-I	U-1	600			-	-	-		N.A
		Essar Power Ltd		U-2	600							N.A
13	Jharkhand	Essar Power Ltd.	Tori TPP Ph-II	U-3	600			-	-	-		N.A
14	Maharashtra	Ratan India Power Pvt. Ltd.	Amravati TPP Ph-II	U-1	270			-	-	-		N.A
		Ratan India Power Pvt. Ltd.		U-2	270							N.A
		Ratan India Power Pvt. Ltd.		U-3	270							N.A
		Ratan India Power Pvt. Ltd.		U-4	270							N.A
		Ratan India Power Pvt. Ltd.		U-5	270							N.A
15	Maharashtra	LVP Pvt. Ltd.	Lanco Vidarbha TPP	U-1	660			-	-	-		N.A
		LVP Pvt. Ltd.		U-2	660							N.A
16	Maharashtra	Ratan India Power Pvt. Ltd.	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	U-1	270			-	-	-		N.A
		Ratan India Power Pvt. Ltd.		U-2	270							N.A
		Ratan India Power Pvt. Ltd.		U-3	270							N.A
		Ratan India Power Pvt. Ltd.		U-4	270							N.A
		Ratan India Power Pvt. Ltd.		U-5	270							N.A
17	Maharashtra	Jinbhuvish Power Generation Pvt. Ltd	Bijora Ghanmukh TPP	U-1	300			-	-	-		N.A
		Jinbhuvish Power Generation Pvt. Ltd		U-2	300							N.A
18	Maharashtra	Shirpur Power Pvt. Ltd	Shirpur TPP ,Shirpur Power Pvt. Ltd.-BHEL	U-2	150			-	-	-		N.A
19	MP	D.B. Power (MP) Ltd	Gorgi TPP	U-1	660			-	-	-		N.A
20	Odisha	Ind Barath	Ind Barath TPP (Odisha)	U-2	350			-	-	-		N.A
21	Odisha	KVK Nilanchal	KVK Nilanchal TPP	U-1	350			-	-	-		N.A
		KVK Nilanchal		U-2	350							N.A
		KVK Nilanchal		U-3	350							N.A
22	Odisha	Lanco Babandh	Lanco Babandh TPP	U-1	660			-	-	-		N.A
		Lanco Babandh		U-2	660							N.A
23	Odisha	MPCL	Malibrahmani TPP	U-1	525			-	-	-		N.A
		MPCL		U-2	525							N.A
24	TN	IBPIL	Tuticorin TPP	U-1	660			-	-	-		N.A
25	TN	SEPC	Tuticorin TPP St-IV	U-1	525	Oct-18	Jul-21	508.91	812.56	561.55	183.83	33.00
26	WB	India Power corporation (Haldia)	Hiranmaye Energy Ltd	U-3	150			-	-	-		N.A

*** Darlipalli Unit-2 has been included into National Capacity addition on 21.07.2021.**

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1778
ANSWERED ON 29.07.2021

PRIVATISATION OF ELECTRICITY

1778. SHRI VE. VAITHILINGAM:

Will the Minister of POWER be pleased to state:

(a) whether the work relating to privatisation of electricity distribution and entrusting the Electricity Department thereunder has been implemented;

(b) if so, the details thereof, State/UTs-wise; and

(c) the present status of the work entrusted to the Electricity Department of Union Territory of Puducherry?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : Government of India announced privatisation of Power Departments & Utilities in Union Territories (UTs) under Aatma Nirbhar Bharat Abhiyaan. The decision is guided by sub-optimal performance of power distribution utilities and the objective of providing better services to consumers with improvement in operational and financial efficiencies. This will also provide a model for emulation by other Utilities across the country.

The UT of Chandigarh has received bids. The UTs of Dadra & Nagar Haveli (DNH) and Daman Diu (DD) have also received bids and bids have been evaluated. The UTs of A&N Islands, Puducherry and Lakshadweep are at RFP finalization Stage. J&K has commissioned a study to examine the modalities.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1789
ANSWERED ON 29.07.2021

HYDROELECTRIC POWER PLANTS

1789. SHRI CHANDRA PRAKASH CHOUDHARY:

Will the Minister of POWER be pleased to state:

(a) whether the Government proposes to install hydroelectric power plants across the country with the objective of reducing pollution;

(b) if so, the details thereof;

(c) the details of hydroelectric and thermal power plants installed in the State of Jharkhand during the last three years and the current year, district-wise; and

(d) the details of progress of such projects undertaken in Jharkhand along with the estimated time frame within which these are likely to be completed?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : Hydro Electric Projects (HEPs) are allotted to Central, State and Private Sector Developers by the concerned State Governments. Further, as per Section 8 (1) of the Electricity Act, 2003, any generating company intending to set up a hydro generating station shall prepare and submit to the Authority for its concurrence, a scheme estimated to involve a capital expenditure exceeding such sum (presently, ₹1000 crores), as may be fixed by the Central Government, from time to time, by notification.

As per information available in Central Electricity Authority (CEA), the status of development of Hydro Electric Projects (above 25 MW), is as under:

- **8 HEPs with aggregate installed capacity of 5,282 MW are at Survey and Investigation stage in the country. Details are given at Annexure-I.**
- **Detailed Project Reports (DPRs) of 4 HEPs with aggregate installed capacity of 2,021.1 MW are under examination in CEA for concurrence. Details are given at Annexure-II.**
- **30 HEPs with aggregate installed capacity of 22,967 MW have been concurred/appraised by CEA which are yet to be taken up for construction. These projects are pending due to various reasons. Details are given at Annexure-III.**
- **37 HEPs (above 25 MW) with aggregate installed capacity of 12,763.5 MW are under construction in the country. Details are given at Annexure-IV.**

(c) & (d) : No Large Hydroelectric Power Project as well as Thermal Power Project have been installed during the last three years and the current year in the State of Jharkhand and no large Hydroelectric Power Project is currently under construction in that State.

Four Thermal Power Projects with aggregate installed capacity of 7,260 MW are under construction in the State of Jharkhand. Details are given at Annexure-V.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1789 ANSWERED IN THE LOK SABHA ON 29.07.2021

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Hydro Electric Projects under Survey and Investigation stage

(As on 21.07.2021)

Sl. No.	Name of the Project	State	Sector	Developer	Installed Capacity (MW)
1.	Sharavathy PSP	Karnataka	Private	KPCL	2000
2.	Upper Indravati	Odisha	Private	OHPCL	600
3.	Devsari*	Uttarakhand	Central	SJVNL	162
4.	Kodayar PSP	Tamil Nadu	State	TANGEDCO	500
5.	Balimela PSP	Odisha	State	OHPCL	500
6.	Bokang Bailing	Uttarakhand	State	THDC	200
7.	Sillahalla PSP	Tamil Nadu	State	TANGEDCO	1000
8.	Upper Kolab	Odisha	State	OHPCL	320
				Total	5282

* S&I studies in respect of Devsari HEP is presently held up due to C.A. No. 6736/2013 pending before Hon'ble Supreme Court of India.

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ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1789 ANSWERED IN THE LOK SABHA ON 29.07.2021

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Hydro Electric Projects for which Detailed Project Reports are under examination in Central Electricity Authority

(As on 21.07.2021)

Sl. No.	Name of the Project	State	Sector	Developer	Installed Capacity (MW)
1.	Thana Plaun	Himachal Pradesh	State	HPPCL	191
2.	Dugar	Himachal Pradesh	Central	NHPC	500
3.	Pinnapuram Standalone Pumped Storage Project	Andhra Pradesh	Private	GEPL	1200
4.	Dagmara	Bihar	Central	NHPC	130.1
	Total				2021.1

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ANNEXURE-III

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1789 ANSWERED IN THE LOK SABHA ON 29.07.2021

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Hydro Electric Projects concurred/ appraised by Central Electricity Authority and yet to be taken up for construction

(As on 21.07.2021)

Sl. No.	Name of Project	State/ UT	Sector	Developer	Installed Capacity (MW)	Date of concurrence/ appraisal
1.	Teesta Stage-IV	Sikkim	Central	NHPC	520	13.05.10
2.	Tawang Stage -I	Arunachal Pradesh	Central	NHPC	600	10.10.11
3.	Tawang Stage -II	Arunachal Pradesh	Central	NHPC	800	22.09.11
4.	Sawalkot	J&K	State	JKSPC	1856	18.04.18
5.	Turga Pumped Storage Project	West Bengal	State	WBSPCL	1000	05.10.16
6.	Miyar	Himachal Pradesh	Private	MHPCL	120	07.02.13
7.	Kalai-II	Arunachal Pradesh	Private	Kalai PPL	1200	27.03.15
8.	Heo	Arunachal Pradesh	Private	HHPPL	240	28.07.15
9.	Tato-I	Arunachal Pradesh	Private	SHPPL	186	28.10.15
10.	TalongLonda	Arunachal Pradesh	Private	GMR	225	16.08.13
11.	Etalin	Arunachal Pradesh	Private	EHEPCL	3097	12.07.13
12.	Sunni Dam	Himachal Pradesh	Central	SJVNL	382	23.12.20
13.	Wah-Umiam Stage-III	Meghalaya	Central	NEEPCO	85	10.06.21
14.	Kirthai-II	J&K	State	JKPDC	930	14.06.19
15.	Lower Siang	Arunachal Pradesh	Private	JAVL	2700	16.02.10
16.	Hirong	Arunachal Pradesh	Private	JAPL	500	10.04.13
17.	Naying	Arunachal Pradesh	Private	NDSCPL	1000	11.09.13
18.	Kynshi Stage-I	Meghalaya	Private	AKPPL	270	31.03.15
19.	Dikhu	Nagaland	Private	NMPPL	186	31.03.14
20.	Attunli	Arunachal Pradesh	Private	AHEPCL	680	02.07.18
21.	Kotlibhel Stage -IA	Uttarakhand	Central	NHPC	195	03.10.06
22.	Kotlibhel Stage-IB	Uttarakhand	Central	NHPC	320	31.10.06
23.	Alaknanda	Uttarakhand	Private	GMRL	300	08.08.08
24.	Demwe Lower	Arunachal Pradesh	Private	ADPL	1750	20.11.09
25.	Kwar	J&K	Joint Venture	CVPPL	540	23.02.17
26.	Loktak Downstream	Manipur	Joint Venture	LDHCL	66	05.05.17
27.	Dibang	Arunachal Pradesh	Central	NHPC	2880	18.09.17
28.	New Ganderwal	J&K	State	JKSPC	93	10.06.14
29.	Nafra	Arunachal Pradesh	Private	SNEL	120	11.02.11
30.	Chhatru	Himachal Pradesh	Private	DSC	126	15.01.15
	Total				22967	

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ANNEXURE-IV

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1789 ANSWERED IN THE LOK SABHA ON 29.07.2021

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Hydro Electric Project (above 25 MW) under construction in the country

(As on 21.07.2021)

Sl. No.	Name of the project	Sector	Developer	State	Installed Capacity (MW)	Anticipated commissioning Date
1.	Subansiri Lower	Central	NHPC	Arunachal Pradesh	2000	2023-24 (Aug'23)
2.	Parbati Stage-II	Central	NHPC	Himachal Pradesh	800	2021-22 (Mar'23)
3.	Luhri-I	Central	SJVN	Himachal Pradesh	210	2025-26 (Jan'26)
4.	Uhl-III	Private	BVPCL	Himachal Pradesh	100	2022-23 (Dec'22)
5.	Dhaulasidh	Central	SJVNL	Himachal Pradesh	66	2025-26 (May'25)
6.	Shongtong Karcham	State	HPPCL	Himachal Pradesh	450	2024-25 (Mar'25)
7.	Bajoli Holi	Private	GMR	Himachal Pradesh	180	2021-22 (Sept'21)
8.	Sorang	Private	HSPCL	Himachal Pradesh	100	2021-22 (July'21)
9.	Tidong -I	Private	Statkraft IPL	Himachal Pradesh	100	2022-23 (Jun'22)
10.	Kutehr	Private	JSW Energy Ltd	Himachal Pradesh	240	2025-26 (Nov'25)
11.	Pakal Dul	Central	CVPPL	Jammu & Kashmir	1000	2025-26 (July'25)
12.	Parnai	State	JKSPDC	Jammu & Kashmir	37.5	2022-23 (Mar'23)
13.	Kiru	Central	CVPPL	Jammu & Kashmir	624	2024-25 (Aug.'24)
14.	Pallivasal	State	KSEB	Kerala	60	2021-22 (Dec'21)
15.	Thottiyar	State	KSEB	Kerala	40	2021-22 (Dec'21)
16.	Shahpurkandi	State	PSPCL/ Irrigation Deptt.	Punjab	206	2023-24 (Dec'23)
17.	Teesta Stage-VI	Central	NHPC	Sikkim	500	2023-24 (Mar'24)
18.	Kundah PSP Phase-I,II&III)	State	TANGEDCO	Tamil Nadu	500	2023-24 (Apr'23)
19.	Tehri Pumped Storage Project	Central	THDC	Uttarakhand	1000	2022-23 (Dec'22)
20.	Vishnugad Pipalkoti	Central	THDC	Uttarakhand	444	2023-24 (Dec'23)
21.	Naitwar Mori	Central	SJVN	Uttarakhand	60	2021-22 (June'22)
22.	Vyasi	State	UJVNL	Uttarakhand	120	2022-23 (Apr'22)
23.	Rammam-III	Central	NTPC	West Bengal	120	2022-23 (Nov'22)
24.	Lower Kopili	State	APGCL	Assam	120	2024-25 (Jun'24)

.....2.

25.	Polavaram	State	APGENCO/ Irrigation Deptt.	Andhra Pradesh	960	2024-26
26.	TangnuRomai	Private	TRPG	Himachal Pradesh	44	2024-25 *
27.	Lower Kalnai	State	JKSPDC	Jammu & Kashmir	48	2025-26 *
28.	Ratle	Central	RHEPPL / NHPC	Jammu & Kashmir	850	2025-26
29.	Maheshwar	Private	SMHPCL	Madhya Pradesh	400	2023-24 *
30.	Koyna Left Bank	State	WRD, Maharashtra	Maharashtra	80	2025-26 *
31.	Rangit-IV	Central	NHPC	Sikkim	120	2025-26
32.	Bhasmey	Private	Gati Infrastructure	Sikkim	51	2024-25 *
33.	Rangit-II	Private	Sikkim Hydro	Sikkim	66	2024-25 *
34.	Panan	Private	Himagiri	Sikkim	300	2025-26 *
35.	Lata Tapovan	Central	NTPC	Uttarakhand	171	2025-26 *
36.	Tapovan Vishnugad	Central	NTPC	Uttarakhand	520	2023-24
37.	PhataByung	Private	LANCO	Uttarakhand	76	2024-25 *
	Total				12763.5	

(*) Construction for the hydro project is held up mid-way due to various reasons.

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ANNEXURE-V

ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 1789 ANSWERED IN THE LOK SABHA ON 29.07.2021

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Thermal Power Projects under Construction in the State of Jharkhand

(As on 21.07.2021)

Sl. No.	Name of Project	Sector	District	Unit No.	Capacity (MW)	Anticipated Commissioning
1	North Karanpura STPP	Central	Chatra	U-1	660	Dec'21
				U-2	660	June'22
				U-3	660	Dec'22
2	Patrutu STPP	Central	Ramgarh	U-1	800	Sept'23
				U-2	800	Mar'24
				U-3	800	Sept'24
3	Matrishri Usha TPP	Private	Latehar	U-1	270	*
				U-2	270	
				U-3	270	*
				U-4	270	
4	Tori TPP	Private	Angarha	U-1	600	#
				U-2	600	
				U-3	600	#
		Total			7260	

(*) Work on hold. Admitted to NCLT on 19.02.2020.

(#) Work on hold. Liquidation order dated 18.12.2019.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1807
ANSWERED ON 29.07.2021

INSTALLATION OF SMART METERS

1807. SHRI HAJI FAZLUR REHMAN:

Will the Minister of POWER
be pleased to state:

(a) whether the Government proposes to install smart meters for power consumers across the country and if so, the details thereof;

(b) whether the smart meters being installed in the State of Uttar Pradesh have many defects and their installation work has been discontinued in the recent past;

(c) if so, the details thereof;

(d) whether the power consumers have to suffer financial loss in case of defects found in smart meters, if so, the details thereof and the action taken thereon; and

(e) the other steps taken/being taken by the Government to further improve the situation?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : Smart meters are being installed under various schemes of Government of India as well as by the State Utilities themselves. Government of India is providing funding to the States for implementation of smart metering under National Smart Grid Mission (NSGM) and Integrated Power Development Scheme (IPDS). EESL is also implementing smart metering projects being launched by the DISCOMs at their own independent initiative in the States of Uttar Pradesh, Haryana, Bihar, Rajasthan, A&N Islands, Delhi etc. on OPEX basis wherein EESL is making the initial capital expenditure and DISCOMs are paying back to EESL on monthly rental basis. Till date, approximately 25.71 lakh smart meters have been installed in various States under the aforesaid schemes of Government of India and the aforesaid projects of the DISCOMs.

Further, under the Revamped Distribution Sector Scheme approved by the Government of India on 30.06.2021, it is envisaged to install approximately 10 crore prepaid Smart Meters by December 2023.

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(b) & (c) : Government of Uttar Pradesh has reported that no plug and play solutions were available at the inception stage of the project as the project in UP for installation of 40 lakh Smart Meters was the very first and the largest of its kind in the country. The teething problems were encountered in IT components of Smart Metering System. As a result of this, the installation of smart meters has been temporarily put on hold while the technical issues are being resolved.

(d) & (e) : State Government of Uttar Pradesh has reported that no financial loss was suffered by Power consumers in case of the reported cases of defective meters. The following steps have been taken by State Government of Uttar Pradesh in the matter:

i. **Security Audit of IT Infrastructure by 'Standardisation Testing and Quality Certification' (STQC) Directorate, Ministry of Electronics and Information Technology, Government of India.**

ii. **User Acceptance Testing (UAT) of AMI system is being conducted since 29th December, 2020. Total 746 test cases were planned to test and all cases have been tested. UAT is expected to be completed by August, 2021.**

iii. **Testing of randomly selected smart meters by Central Power Research Institute (CPRI). Initially one meter each from eight lots were tested. Three meters passed in the test. Out of the five lots where the sample meters were not found as per specification, eight meters from each lot (total 40) were tested. All these 40 meters were found as per specifications. 57 more meters have been further tested and all these 57 meters have been found as per specifications.**

The situation is being closely monitored not only at the DISCOM level but also in the monthly review at the level of the Ministry.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1817
ANSWERED ON 29.07.2021

RISE IN SPOT POWER PRICE

1817. SHRI THIRUMAAVALAVAN THOL:

Will the Minister of POWER
be pleased to state:

(a) whether the Government is aware of the sharp rise in the average spot power price from March 2020 to March 2021;

(b) if so, the details thereof;

(c) whether such sharp rise is attributable to the input cost or manipulated to increase profit by the producers/traders; and

(d) if so, the details thereof along with the measures taken by the Government to control such sharp rise in the price?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (d) : It is not correct that there has been a sharp rise in the average spot power price from March, 2020 to March, 2021. In fact the average price of power sold through the Power Exchanges declined from Rs.3 per kWh in 2019-20 to Rs.2.82 per kWh in 2020-21. The details of the average price and volume of the electricity transacted through Power Exchanges, for the period March 2020 to March 2021 are given at Annexure.

The Power Exchanges have been set up under the CERC Power Market Regulations, which provide that Power Exchange is a market where buyers, sellers, electricity traders etc. transact electricity on standardized contracts.

The electricity price in the spot market is a function of demand and supply forces in the market which are in turn dependent on the overall macro-economic situation of the country. Electricity price in the Day Ahead Market on the Power Exchanges is discovered through market mechanism, viz. Aggregate Demand (Total Buy Bids) and Aggregate Supply (Total Sell Bids) and the bidding mechanism follows the double sided closed bid auction on a day-ahead market.

Over the fiscal year 2020-21, new market developments have been brought in such as introduction of Real Time Market (RTM) to manage electricity requirements closer to real time, Green Term Ahead Market (G-TAM) to provide additional avenues to RE generators and notification of the CERC Power Market Regulations 2021 to cater to the increasing depth of the Indian power market and growing need for information exchange among market participants as well as to strengthen the mechanism for market surveillance and monitoring.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 1817 ANSWERED IN THE LOK SABHA ON 29.07.2021

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The average price and volume during March 2020-March 2021 are provided below:

Months	Avg Price (Rs./Unit)	Cleared Volume (BU)
Mar 20	2.45	3.97
Apr 20	2.42	3.69
May 20	2.57	5.57
Jun 20	2.35	4.17
Jul 20	2.47	4.49
Aug 20	2.43	4.48
Sep 20	2.69	4.78
Oct 20	2.74	5.50
Nov 20	2.73	4.86
Dec 20	2.83	5.61
Jan 21	3.18	5.57
Feb 21	3.39	5.10
Mar 21	4.07	6.55

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GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1835
ANSWERED ON 29.07.2021

ELECTRIFICATION UNDER SAUBHAGYA

†1835. SHRI SUDARSHAN BHAGAT:

Will the Minister of POWER
be pleased to state:

(a) whether most of the houses in the country have been electrified under Pradhan Mantri Sahaj Bijli Har Ghar Yojana-SAUBHAGYA;

(b) if so, the details thereof, State-wise; and

(c) if not, the reasons therefor?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

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

Under Saubhagya scheme, as on 31.03.2021, all the States have reported 100% electrification of all the willing un-electrified households, identified before 31.03.2019. As reported by the States, 2.817 crore households have been electrified since the launch of Saubhagya, up to 31.03.2021. State-wise details are given at Annexure.

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1835 ANSWERED IN THE LOK SABHA ON 29.07.2021

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State-wise electrification of households since launch of Saubhagya

Sl. No.	Name of the States	No. of Households electrified from 11.10.2017 to 31.03.2019	No. of Households electrified from 01.04.2019 to 31.03.2021	Total HHs electrified as on 31.03.2021
1	Andhra Pradesh	1,81,930		1,81,930
2	Arunachal Pradesh	47,089		47,089
3	Assam	17,45,149	2,00,000	19,45,149
4	Bihar	32,59,041		32,59,041
5	Chhattisgarh	7,49,397	40,394	7,89,791
6	Gujarat	41,317		41,317
7	Haryana	54,681		54,681
8	Himachal Pradesh	12,891		12,891
9	Jammu & Kashmir	3,77,045		3,77,045
10	Jharkhand	15,30,708	2,00,000	17,30,708
11	Karnataka	3,56,974	26,824	3,83,798
12	Ladakh	10,456		10,456
13	Madhya Pradesh	19,84,264		19,84,264
14	Maharashtra	15,17,922		15,17,922
15	Manipur	1,02,748	5,367	1,08,115
16	Meghalaya	1,99,839		1,99,839
17	Mizoram	27,970		27,970
18	Nagaland	1,32,507		1,32,507
19	Odisha	24,52,444		24,52,444
20	Puducherry	912		912
21	Punjab	3,477		3,477
22	Rajasthan	18,62,736	2,12,786	20,75,522
23	Sikkim	14,900		14,900
24	Tamil Nadu	2,170		2,170
25	Telangana	5,15,084		5,15,084
26	Tripura	1,39,090		1,39,090
27	Uttar Pradesh	79,80,568	12,00,003	91,80,571
28	Uttarakhand	2,48,751		2,48,751
29	West Bengal	7,32,290		7,32,290
Total		2,62,84,350	18,85,374	2,81,69,724

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