

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO.3702
TO BE ANSWERED ON 11.12.2019

NUCLEAR POWER PLANTS

3702. SHRI PARBHUBHAI NAGARBHAI VASAVA:
SHRI A. RAJA:
DR. KALANIDHI VEERASWAMY:

Will the PRIME MINISTER be pleased to state:

- (a) whether the demand of power has been increasing in the country;
- (b) if so, the State-wise details thereof including in Gujarat and Tamil Nadu and the estimated power demand for the coming years along with the steps being taken by the Government to meet this increasing demand;
- (c) whether nuclear power plants are being established along with electricity generating plants of other technologies to meet the electricity requirements of the country;
- (d) if so, the details thereof, State wise including Tamil Nadu; and
- (e) the details of the funds sanctioned, allocated and utilized for these plants so far along with their present status and the target set for establishment of these plants?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

- (a) The demand of electricity in the country is increasing.
- (b) The comparative details of State/UT-wise actual demand and supply of electricity (including in Gujarat and Tamil Nadu) in terms of Energy during the current year i.e., 2019-20 (up to October, 2019), as compared to same period of last year, are enclosed at **Annexure-I.**

As per 19th Electric Power Survey (EPS) Report published by Central Electricity Authority (CEA) in January 2017, the estimated demand in terms of electrical Energy Requirement of all the States and UTs in the country along with Gujarat and Tamil Nadu, for the years 2019-20 to 2024-25 is enclosed at **Annexure-II.**

To meet the estimated electricity demand, Power Projects having capacity of 59,615.65 MW which includes 42281.15 MW Thermal (Coal+Gas), 12,034.5 MW Hydro and 5,300 MW Nuclear are at various stages of construction in the country. Further, Government of India has set a target of 1,75,000 MW installed capacity from renewable sources by the end of 2021-22 which includes 1,00,000 MW from Solar, 60,000 MW from Wind, 10,000 MW from Biomass and 5000 MW from small Hydro.

(c) Yes, Sir.

(d)&(e) The details are enclosed as **Annexure-III**.

Comparison of Power Supply Position in terms of Energy during the period April, 2019 - October, 2019* vis-à-vis April, 2018 - October, 2018										
State / System / Region	April, 2019 - October, 2019*				April, 2018 - October, 2018				% Change	
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)	(%)	(%)
Chandigarh	1,155	1,155	0	0.0	1,055	1,055	0	0.0	9.1	9.5
Delhi	23,147	23,149 [#]	8	0.0	22,537	22,523	14	0.1	2.7	2.7
Haryana	17,036	17,033	13	0.0	15,205	15,205	0	0.0	5.2	5.2
Himachal Pradesh	6,183	6,138	44	0.7	5,691	5,501	191	3.4	8.6	11.6
Jammu & Kashmir	11,219	8,967	2,252	20.1	10,958	4,841	1,117	10.3	2.4	1.4
Punjab	40,889	40,883	6	0.0	38,628	38,615	13	0.0	5.1	5.4
Rajasthan	47,701	47,670	11	0.1	45,377	45,177	160	0.4	5.2	5.5
Uttar Pradesh	81,912	80,891	1,021	1.3	75,593	74,917	676	0.9	8.4	6.0
Uttarakhand	8,984	8,891	93	1.0	8,383	8,298	85	1.0	7.2	7.1
Northern Region	258,024	254,557	3,467	1.3	243,388	240,152	3,236	1.3	6.0	6.0
Chhattisgarh	18,863	18,861	2	0.0	16,974	16,346	28	0.2	13.2	15.4
Gujarat	67,567	67,348	1	0.0	70,324	30,110	14	0.0	-3.9	-5.9
Madhya Pradesh	41,171	41,171	0	0.0	40,046	40,044	2	0.0	2.6	2.8
Maharashtra	89,975	89,974	0	0.0	95,512	95,378	134	0.1	-5.8	-5.7
Daman & Diu	1,524	1,524	0	0.0	1,521	1,521	0	0.0	0.2	0.2
Dadar Nagar Haveli	3,865	3,865	0	0.0	3,731	3,731	0	0.0	3.8	3.6
Goa	2,490	2,490	0	0.0	2,701	2,499	2	0.1	-0.1	-0.1
Western Region	225,463	225,459	4	0.0	230,009	229,829	180	0.1	-3.0	-1.9
Andhra Pradesh	38,340	38,302	38	0.1	37,301	37,258	43	0.1	2.8	2.8
Telangana	37,111	37,109	2	0.0	38,110	38,094	46	0.1	-2.6	-2.3
Karnataka	40,113	40,111	2	0.0	39,026	38,975	52	0.1	2.8	2.9
Kerala	15,238	15,201	37	0.2	14,241	14,148	96	0.7	7.0	7.3
Tamil Nadu	65,554	65,551	3	0.0	65,775	65,689	76	0.1	-0.3	-0.2
Rajasthan	1,768	1,767	1	0.1	1,660	1,652	8	0.5	6.5	6.6
Lakshadweep #	27	27	0	0.0	27	27	0	0.0	0.0	0.0
Southern Region	196,124	196,040	84	0.0	196,114	195,793	321	0.2	1.0	1.1
Bihar	30,543	20,474	69	0.3	19,063	18,850	204	1.1	7.8	8.6
ChC	13,381	13,381	2	0.0	13,286	12,968	299	2.3	0.9	3.2
Chhattisgarh	5,242	5,200	89	0.7	5,084	4,973	111	3.2	3.1	4.6
Odisha	19,004	19,004	0	0.0	35,188	20,264	23	0.1	-6.3	-6.2
West Bengal	35,132	35,032	101	0.3	33,267	33,129	137	0.4	5.6	5.7
Assam	293	291	0	0.0	283	282	0	0.1	3.5	3.6
Andaman & Nicobar #	202	188	13	6.7	202	188	13	6.7	0.0	0.0
Eastern Region	93,597	93,386	211	0.2	91,251	90,477	774	0.8	2.6	3.2
Arunachal Pradesh	443	441	2	0.4	505	499	7	1.3	-12.2	-11.6
Assam	6,295	5,857	438	7.0	6,136	3,885	251	4.1	3.0	-0.5
Manipur	502	498	4	0.8	489	483	7	1.4	2.5	3.1
Meghalaya	1,187	1,168	19	1.6	1,041	1,040	1	0.1	14.1	12.3
Nagaland	373	370	3	0.8	372	367	5	1.4	0.1	0.7
Nagaland	470	467	3	0.7	538	480	59	10.9	-12.6	-2.7
Trinamali	1,005	985	23	2.3	1,082	1,064	19	1.7	-8.8	-7.4
North-Eastern Region	10,279	9,786	493	4.8	10,164	9,817	347	3.4	1.1	-0.3
All India	795,488	781,228	4,359	0.5	770,927	766,046	4,879	0.6	1.9	2.0

* Provisional

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

Excludes the supply to Bangladesh.

Note: Power Supply Position Report has been compiled based on the data furnished by State Utilities/ Electricity Departments.

Electrical Energy Requirement (MU)

State/UTs	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
Delhi	35380	36573	37778	38997	40224	41557
Haryana	57083	60336	63618	66747	70333	75110
Himachal Pradesh	10949	11394	11866	12360	12876	13417
Jammu & Kashmir	17109	18017	18819	19963	21161	22433
Punjab	64730	68502	72392	76826	81369	86027
Rajasthan	83168	87051	91216	95782	101200	108808
Uttar Pradesh	132476	141426	150797	159412	167731	176477
Uttarakhand	17007	18181	19406	20687	22029	23438
Chandigarh	2145	2223	2304	2388	2475	2566
Northern Region	426347	443704	468196	493162	519399	549833
Goa	5068	5332	5593	5855	6120	6389
Gujarat	120693	128368	136159	144186	152475	160989
Chhattisgarh	33463	35559	37840	40155	42661	45315
Madhya Pradesh	88022	94301	99871	104772	109727	114765
Maharashtra	171313	180338	189983	200288	211307	223171
D. & N. Haveli	8210	8775	9343	9920	10513	11120
Daman & Diu	2449	2577	2712	2855	3006	3166
Western Region	429217	455250	481501	508032	535810	564915
Andhra Pradesh	68034	73090	78540	84429	90794	97181
Telangana	75164	80700	84603	88130	91836	95776
Karnataka	77532	81622	85932	90381	95042	99916
Kerala	28535	29924	31371	32861	34393	35964
Tamil Nadu	123724	130189	136643	144145	152357	161349
Puducherry	3387	3521	3664	3809	3959	4114
Southern Region	376376	399047	420753	443754	468380	494301
Bihar	31017	35152	38416	41208	43926	46735
Jharkhand	27488	29052	30649	32209	33850	35544
Odisha	30302	31224	32164	33172	34163	35219
West Bengal	63979	66634	69361	72222	75264	78463
Sikkim	577	607	638	669	702	737
Eastern Region	153363	162669	171228	179480	187906	196698
Assam	11894	12959	14051	15164	16355	17631
Manipur	1769	1925	2103	2300	2515	2760
Meghalaya	2378	2470	2566	2667	2771	2900
Nagaland	992	1059	1129	1200	1275	1356
Tripura	1456	1525	1595	1661	1731	1796
Arunachal Pradesh	1210	1345	1498	1669	1863	2081
Mizoram	737	799	866	937	1013	1095
North Eastern Region	20437	22083	23809	25598	27523	29619
Andaman & Nicobar	414	446	475	504	535	566
Lakshadweep	57	59	62	64	66	68
All India	1399913	1483257	1566023	1650594	1739618	1836001

Annexure-III

Project	Location & State	Capacity (MW)	Physical Progress (as of October 2019)/ Status	Sanctioned Cost (Rs. crore)	Expenditure upto October 2019 (Rs. crore)	Expected Completion
Projects under Construction						
KAPP 3&4	Kakrapar, Gujarat	2 X 700	91.8%	11459 [#]	14231	2019-20 / 2020-21
RAPP 7&8	Rawatbhata, Rajasthan	2 X 700	78.6%	12320 [*]	11491	2021-22 / 2022-23
KKNPP 3&4	Kudankulam, Tamil Nadu	2 X 1000	34.62%	39849	16025	2023 – 24
GHAVP 1&2	Gorakhpur, Haryana	2 X 700	<i>Excavation at advance stage.</i>	20594	1915	2025 – 26
PFBR	Kalpakkam, Tamil Nadu	1 X 500	97.64%	5677 [@]	5770.16	2021
Projects accorded Administrative approval & financial sanction						
KKNPP 5&6	Kudankulam, Tamil Nadu	2 X 1000	<i>Excavation at advance stage</i>	49621	1962	2025-26
Chutka-1&2	Chutka, Madhya Pradesh	2 X 700	<i>Pre-project activities are in progress</i>	105000	651	Progressive completion by 2031
Kaiga-5&6	Kaiga, Karnataka	2 X 700				
Mahi Banswara-1&2	Mahi Banswara, Rajasthan	2 X 700				
GHAVP– 3&4	Gorakhpur, Haryana	2 X 700				
Mahi Banswara-3&4	MahiBanswara, Rajasthan	2 X 700				

[#] being revised to Rs 16580 crore in respect of KAPP-3&4-Cabinet Note is under submission

^{*}Rs. 17079 crore in respect of RAPP-7&8- Proposal approved by NPCIL Board.

[@] Being revised to Rs. 6840 crore in respect of PFBR. Cabinet note is under submission.