GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
STARRED QUESTION NO.29
TO BE ANSWERED ON 25.02.2016

POWER GENERATION CAPACITY

***29. SHRI RAM MOHAN NAIDU KINJARAPU:**

Will the Minister of POWER
be pleased to state:

(a) the total number of Centrally Generating Stations (CGSs) in the country and the installed capacity of all the Stations, State-wise including Andhra Pradesh;

(b) whether there is any provision of allocating a certain percentage of the power generated to the home State where the station is located, if so, the details thereof;

(c) whether the Government is planning to increase the number of CGSs across the country, if so, the details thereof; and

(d) the time by which CGSs are likely to be set up and the expenditure likely to be incurred thereon, State-wise?

A N S W E R

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

(SHRI PIYUSH GOYAL)

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

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STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO. 29 TO BE ANSWERED IN THE LOK SABHA ON 25.02.2016 REGARDING POWER GENERATION CAPACITY.

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(a) : The total number of Central Generating Stations (CGSs) in the country is 92 with an installed capacity of 74806.75 MW. Details of Installed Capacity of Central Generating Station Station-wise, State/ Union Territory wise including Andhra Pradesh is given at Annex-I.

(b) : The details of provisions of allocating power to home states is given at Annex-II.

(c) & (d) : Yes, Madam. The state-wise details of under construction Central Generating Stations of 36496 MW comprising of 26381 MW of thermal, 6315 MW of Hydro and 3800 MW of Nuclear and the expenditure likely to be incurred thereon are given at Annex-III.

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ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 29 TO BE ANSWERED IN THE LOK SABHA ON 25.02.2016 REGARDING POWER GENERATION CAPACITY.

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State	Name of Project	Total Installed Capacity (MW)	State-wise total No. of stations
Delhi	Badarpur Thermal Power Station	705	
Delhi Total		705	1
Haryana	Faridabad CCGT	431.59	
	Indira Gandhi STPP	1500	
Haryana Total		1931.59	2
Himachal Pradesh	Baira Siul Hydro Power Station	180	
	Chamera Hydro Power Station-I	540	
	ChameraHydro Power Station -II	300	
	ChameraHydro Power Station -III	231	
	KOLDAM HEP	800	
	Nathpa Jhakri Hydro Power Station	1500	
	Parbati III	520	
	Rampur	412.02	
Himachal Pradesh Total		4483.02	8
Jammu & Kashmir	Chutak Hydro Power Station	44	
	Dulhasti Hydro Power Station	390	
	Nimoo Bazoo	45	
	Salal Hydro Power Station -II	345	
	Salal Hydro Power Station-I	345	
	Sewa II H E P	120	
	Uri Hydro Power Station	480	
	Uri-II Hydro Power Station	240	
Jammu & Kashmir Total		2009	8
Rajasthan	Anta CCPP	419.33	
	Rjasthan A P S	1180	
	Barsingsar Thermal Power Station	250	
Rajasthan Total		1849.33	3
Uttar Pradesh	Auriaya CCPP	663.36	
	Dadri CCPP	829.78	
	Narora A P S	440	
	National Capital Region Power Station	1820	
	Rihand Thermal Power Station	3000	
	Singrauli Thermal Power Station	2000	
	Tanda Thermal Power Station	440	
	Unchahar Thermal Power Station	1050	
Uttar Pradesh Total		10243.14	8
Uttarakhand	Dhauli Ganga Hydro Power Station	280	
	Koteshwar Hydro Power Station	400	
	Tanakpur Hydro Power Station	94.2	
	Tehri Hydro Power Station	1000	
Uttarakhand Total		1774.2	4
Northern Region		22995.28	34
Chhattisgarh	Bhilai Thermal Power Station	500	
	Korba Thermal Power Station	2600	
	Sipat Supper Thermal Power Station	2980	
Chhattisgarh Total		6080	3
Gujarat	Gandhar CCPP	657.39	
	Kawas Gas Power Station	656.2	
	Kakarapara A P S	440	
Gujarat Total		1753.59	3
Madhya Pradesh	Indira Sagar Hydro Power Station	1000	
	Omkreshwar Hydro Power Station	520	
	Vindhyachal Thermal Power Station	4760	
Madhya Pradesh Total		6280	3
Maharashtra	Ratnagiri Gas Power Station	2220	
	Tarapur A P S	1400	
	Mauda Thermal Power Station	1000	
Maharashtra Total		4620	3
Western Region		18733.59	12
Andhra Pradesh	Simadri Thermal Power Station	1000	
	Simadri Thermal Power Station	1000	
Andhra Pradesh Total		2000	2
Karnataka	Kaiga A P S	880	
Karnataka Total		880	1

Kerala	Rajiv Gandhi CCPP	359.58	
Kerala Total		359.58	1
Tamil Nadu	Kundankulam	1000	
	Madras A P S	440	
	Neyveli Thermal Power Station I	600	
	Neyveli Thermal Power Station II	1470	
	Neyveli Thermal Power Station Stage	250	
	Neyveli Thermal Power Station Stage-II	250	
	Neyveli Thermal Power Station(Ext)	210	
	Neyveli Thermal Power Station(Fst)	210	
	Tuticorin JV	1000	
	Vallur Thermal Power Station	1500	
Tamil Nadu Total		6930	10
Telangana	Ramagundm Thermal Power Station	2600	
Telangana Total		2600	1
Southern Region		12769.58	15
Bihar	BARH STPP ST II	1320	
	Kahalgaon Thermal Power Station	2340	
	Muzaffarpur Thermal Power Station	415	
Bihar Total		4075	3
Jharkhand	Maithon Gas Power Station	90	
	Maithon Hydro Power Station	63.2	
	Panchet Hill Hydro Power Station	80	
	Bokaro Thermal Power Station B	630	
	Chandrapur Thermal Power Station	890	
	Koderma Thermal Power Station	1000	
Jharkhand Total		2753.2	6
Odisha	Talchar Thermal Power Station(STPS)	3000	
	Talcher Thermal Power Station Old	460	
Odisha Total		3460	2
Sikkim	Rangit Hydro Power Station	60	
	Teesta Hydro Power Station	510	
Sikkim Total		570	2
West Bengal	Teesta Low Dam Hydro Power Station	132	
	Durgapur Steel Thermal Power Station	1000	
	Durgapur Thermal Power Station	340	
	Farakka Thermal Power Station	2100	
	Mejia Thermal Power Station	2340	
	Raghunathpur TPP, Ph 1	600	
	Raghunathpur TPP, Ph 2	600	
West Bengal Total		7112	7
Eastern Region		17970.2	20
Arunachal Pradesh	Ranganadi Hydro Power Station	405	
Arunachal Pradesh Total		405	1
ASSAM	Kathalguri CCPP	291	
	Kopili Hydro Power Station Extn.	200	
	Bongaigaon	250	
ASSAM Total		741	3
Manipur	Loktak Hydro Power Station	105	
Manipur Total		105	1
Meghalaya	Khandong Hydro Power Station	75	
Meghalaya Total		75	1
Nagaland	Doyang Hydro Power Station	75	
Nagaland Total		75	1
Tripura	Agartala CCPP ST-I	25.5	
	Agartala Gas Power Station	84	
	Monarchak CCPP	65.4	
	Tripura CCGT	762.2	
Tripura Total		937.1	4
NE Region		2338.1	11
Grand Total		74806.75	92

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ANNEX-II

ANNEX REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 29 TO BE ANSWERED IN THE LOK SABHA ON 25.02.2016 REGARDING POWER GENERATION CAPACITY.

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Power from Central Generating Stations (CGS) to beneficiary States/Union Territories (UTs) is allocated in accordance with formula for allocation of power which is being treated as guidelines from April, 2000. As per these guidelines, allocation of power is made to the States/ UTs in two parts, namely firm allocation of 85% and unallocated power of 15% for allocation by the Government for meeting the urgent/overall requirement.

The firm allocation includes allocation of 12% free power to the affected States and 1% for local area development in case of Hydro Power Stations and 10% (paid) power to the home State in case of Thermal and Nuclear Power Stations.

The balance (72% in case of Hydro and 75% in case of Thermal & Nuclear) power is distributed amongst the States / UTs of the region in accordance with the pattern of central plan assistance and energy consumption during the previous five years, both factors having equal weightage. Central plan assistance is determined in accordance with the Gadgil formula, in which population of the States is also taken into consideration. In case of joint venture projects, the equity contributing State gets benefit in firm allocation in accordance with their equity contribution.

The aforementioned guidelines for allocation of power from CGS are applicable to the generating stations, for which Power Purchase Agreements (PPAs) have been signed upto 5th January, 2011 and for the extension of the existing projects. After 5th January, 2011, power is to be procured by the Distribution Companies / Utilities through tariff based competitive bidding. In 14 new projects of NTPC, Central Government has, in January, 2011, approved allocation of 50% of power to 'Home' State, 15% unallocated power at the disposal of Government of India and 35% to other constituents (except 'Home' State) of that region on the basis of extant guidelines on allocation of power giving equal weightage to central plan assistance and energy consumption by each State of the Region for the preceding 5 years. Similar dispensation has also been provided by the Government in January, 2011 in respect of new projects of Nuclear Power Corporation.

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ANNEX REFERRED TO IN PARTS (c) & (d) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 29 TO BE ANSWERED IN THE LOK SABHA ON 25.02.2016 REGARDING POWER GENERATION CAPACITY.

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Details of Central Sector under construction Thermal Power Projects in the country

Sl. No.	State	Project Name	Unit No	Capacity (MW)	Expected Commissioning Schedule	Estimated Cost (Rs. Crs)
1	Assam	Bongaigaon TPP/NTPC	U-2	250	Mar-17	6149.18
			U-3	250	Jun-17	
2	Bihar	Barh STPP-I /NTPC	U-1	660	Apr-17	15095.67
			U-2	660	Nov-17	
			U-3	660	May-18	
3	Bihar	Muzaffarpur TPP(Kanti) Exp/ JV of NTPC& BSEB	U-4	195	Mar-16	3942.16 (for 2 units)
4	Bihar	Nabi Nagar TPP / JV of NTPC & Rly.	U-1	250	Apr-16	5352.51
			U-2	250	Mar-17	
			U-3	250	Jul-17	
			U-4	250	Oct-17	
5	Bihar	New Nabi Nagar TPP /JV of NTPC & BSPGCL	U-1	660	Jun-17	13624.00
			U-2	660	Dec-17	
			U-3	660	Jun-18	
6	Chhattisgarh	Lara TPP / NTPC	U-1	800	Dec-16	11846.00
			U-2	800	Jul-17	
7	Jharkhand	Bokaro "A" TPS Exp. / DVC	U-1	500	Apr-16	4138.41
8	Jharkhand	North Karanpura TPP/ NTPC	U-1	660	Oct-18	14367.00
			U-2	660	Feb-19	
			U-3	660	Jun-19	
9	Karnataka	Kudgi STPP Ph-I/ NTPC	U-1	800	Mar-16	15166.19
			U-2	800	Jan-17	
			U-3	800	Apr-17	
10	Maharashtra	Mouda STPP Ph-II/ NTPC	U-3	660	Jun-16	7921.47
			U-4	660	Feb-17	
11	Maharashtra	Solapur STPP/ NTPC	U-1	660	Apr-17	9395.18
			U-2	660	Aug-17	
12	MP	Gadarwara TPP/ NTPC	U-1	800	Jun-17	11638.55
			U-2	800	Dec-17	
13	MP	Khargone TPP/ NTPC	U-1	660	Mar-19	7820.00
			U-2	660	Sep-19	
14	TN	Neyveli New TPP/ NLC	U-1	500	Nov-17	5907.11
			U-2	500	May-18	
15	Odisha	Darlipalli STPP/ NTPC	U-1	800	Feb-18	12532.44
			U-2	800	Jun-18	
16	Telangana	Telangana Ph-I /NTPC	U-1	800	Jan-20	9954.2*
			U-2	800	Jul-20	
17	Tripura	Agartala /NEEPCO	St-1	25.5	Feb-16	382.41 (for ST-1 & ST-2)
18	UP	Unchahar - IV/ NTPC	U-6	500	Nov-17	3363.12
19	UP	Meja STPP/ JV of NTPC & UPRVUNL	U-1	660	Apr-17	10821.00
			U-2	660	Oct-17	
20	UP	Tanda TPP/ NTPC	U-1	660	Sep-18	9188.98
			U-2	660	Mar-19	
21	WB	Raghunathpur TPP, Ph-II / DVC	U-1	660	Uncertain	9088.99
			U-2	660	Uncertain	
	TOTAL			26381		

* As per Environmental Clearance letter

State wise list of Under Construction HEPs /Centrally Generating Stations (CGSs) in the Country						
Sl. No.	Name of Scheme (Executing Agency)	Sector	Installed Capacity. (No. x MW)	Capacity Under Execution (MW)	Commissioning Schedule	Latest Cost (Rs. Crs.)
	Arunachal Pradesh					
1	Kameng (NEEPCO)	Central	4x150	600.00	2016-17 @	6085.84
2	Pare (NEEPCO)	Central	2x55	110.00	2016-17 @	1226.27
3	Subansiri Lower (NHPC)	Central	8x250	2000.00	2020-21 *	18063.89
	Sub-total: Arunachal Pradesh			2710.00		
	Himachal Pradesh					
4	Parbati St. II (NHPC)	Central	4x200	800.00	2018-19	7818.68
	Sub-total: Himachal Pradesh			800.00		
	Jammu & Kashmir					
5	Kishanganga (NHPC)	Central	3x110	330.00	2016-17 @	5497.72
	Sub-total: Jammu & Kashmir			330.00		
	Mizoram					
6	Tuirial (NEEPCO)	Central	2x30	60.00	2017-18	1381.71
	Sub-total: Mizoram			60.00		
	Uttarakhand					
7	Lata Tapovan (NTPC)	Central	3x57	171.00	2021-22 *	1527
8	Tapovan Vishnugad (NTPC)	Central	4x130	520.00	2018-19	3846.3
9	Tehri PSS (THDC)	Central	4x250	1000.00	2019-20	2978.86
10	Vishnugad Pipalkoti (THDC)	Central	4x111	444.00	2019-20	2491.58
	Sub-total: Uttarakhand			2135.00		
	West Bengal					
11	Teesta Low Dam-IV (NHPC)	Central	4x40	160.00	2015-17	1929.15
12	Rammam-III (NTPC)	Central	3x40	120.00	2019-20	1381.84
	Sub-total: West Bengal			280.00		
	Total:			6315.00		
@	Critical for commissioning during 12th Plan					
*	Subject to restart of works					

State wise list of Under Construction Nuclear Power Project in the Country

Sl. No.	Project Name	State	Developer	Sector	Fuel Type	Capacity (MW)
1	Kudankulam	Tamil Nadu	NPC	C	Nuclear	(1x1000) 1000
2	RAPP U 1, 2	Rajasthan	NPC	C	Nuclear	(2x700) 1400
3	Kakrapar U 1,2	Gujarat	NPC	C	Nuclear	(2x700) 1400

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