GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.1568
TO BE ANSWERED ON 24.11.2016

POWER GENERATION

†1568. SHRI ANANTKUMAR HEGDE:
SHRI ALOK SANJAR:

Will the Minister of POWER be pleased to state:

(a) the installed capacity and actual quantum of power generated from various sources in the country during the year 2015-16, State-wise;

(b) the target fixed and achieved for power generation from various sources during the year 2014-15 and 2013-14 along with the quantum of power generated from coal and gas, State-wise;

(c) the increase in capacity of power generation from various sources during the last year along with the number of power projects likely to be operational in the country during the year 2016-17; and

(d) the details of the pending proposals received from various States regarding the setting up of power projects along with the time by which these proposals are likely to be cleared?

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : The state wise installed capacity and actual quantum of power generated from various sources in the country during the year 2015-16 is given at Annex-I.

(b) : The state wise target fixed and achieved for power generation from various sources during the year 2014-15 and 2013-14 along with the quantum of power generated from coal and gas is given at Annex-II.

(c) : The details of capacity addition/deletion/up-ration during the year 2015-16 is given at Annex-III.

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During the year 2016-17, 29 thermal stations, having total installed capacity of 13440.5 MW, are likely to be commissioned, out of which 9 projects with installed capacity of 3608.5 MW have already been commissioned till 31.10.2016, whereas 13 hydro stations, having total installed capacity of 1949 MW, are likely to be commissioned, out of which 5 projects with installed capacity of 320 MW have already been commissioned till 31.10.2016.

(d) : After the enactment of Electricity Act 2003, techno-economic clearance for setting up of Thermal Power Projects is not required. As such, the Central Electricity Authority (CEA) has not received any proposal for setting up new thermal power plant in the country.

Detailed Project Reports (DPRs) of 12 Hydroelectric Projects, with an aggregate installed capacity of 7,165 MW are under examination in CEA. The details are given in Annex-IV. DPRs of Jelam Tamak and Bowala Nand Prayag HE projects have already been appraised. Concurrence to these projects will be accorded after receipt of the report on e-flow of empowered committee of Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD & GR).

The remaining Hydro Electric Projects would be concurred as far as practicable, within a period of 150 (one hundred fifty) working days (excluding time taken by the Developer for compliance of observations of CEA/ CWC/ GSI/ CSMRS etc.) from the date of submission of 25 sets of DPR complete in all respects/acceptance of Complete DPR by CEA from Developer.

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ANNEX-I

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1568 TO BE ANSWERED IN THE LOK SABHA ON 24.11.2016.

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State wise Installed Capacity and power generation during the year 2015-16

State	CATEGORY	Fuel	Installed Capacity as on 31.03.2016 (MW)	Generation (MU)
BBMB	HYDRO		2866.3	11818.9
DELHI	THERMAL	COAL	840	2288.04
		NATURAL GAS	2208.4	3918.06
DELHI Total			3048.4	6206.1
HARYANA	THERMAL	COAL	5980	21146.5
		NATURAL GAS	431.59	1100.64
HARYANA Total			6411.59	22247.14
HIMACHAL PRADESH	HYDRO		6597.02	27087.49
JAMMU AND KASHMIR	THERMAL		175	0
	HYDRO		3119	15136.15
JAMMU AND KASHMIR Total			3294	15136.15
PUNJAB	THERMAL		6550	19015.05
	HYDRO		1051	4327.84
PUNJAB Total			7601	23342.89
RAJASTHAN	THERMAL	COAL	6260	32882.92
		LIGNITE	1580	8776.53
		NATURAL GAS	1023.13	2834.86
	THERMAL Total		8863.13	44494.31
	HYDRO		411	1033.8
	NUCLEAR		1180	8419.24
RAJASTHAN Total			10454.13	53947.35
UTTAR PRADESH	THERMAL	COAL	19063	102450.54
		NATURAL GAS	1493.14	4511.31
	THERMAL Total		20556.14	106961.85
	HYDRO		501.6	935.08
	NUCLEAR		440	3432.6
UTTAR PRADESH Total			21497.74	111329.53
UTTARAKHAND	HYDRO		3756.35	12765.92
CHHATTISGARH	THERMAL		19488	89189.99
	HYDRO		120	323.3
CHHATTISGARH Total			19608	89513.29
GOA	THERMAL	NAPTHA	48	0
GUJARAT	THERMAL	COAL	14672	81254.47
		LIGNITE	1040	6126.79
		NATURAL GAS	7695.41	12555.98
	THERMAL Total		23407.41	99937.24
	HYDRO		1990	2951.85
	NUCLEAR		440	2028.17
GUJARAT Total			25837.41	104917.26
MADHYA PRADESH	THERMAL		17065	90870.68
	HYDRO		2395	4869.82
MADHYA PRADESH Total			19460	95740.5
MAHARASHTRA	THERMAL	COAL	23626	96855.01
		NATURAL GAS	3072	5299.91
	THERMAL Total		26698	102154.92
	HYDRO		2887	4700.37
	NUCLEAR		1400	10389.14
MAHARASHTRA Total			30985	117244.43
ANDHRA PRADESH	THERMAL	COAL	9670	52023.75
		DIESEL	36.8	0
		NATURAL GAS	4880.4	5535.51
	THERMAL Total		14587.2	57559.26
	HYDRO		1100	671.33

State	CATEGORY	Fuel	Installed Capacity as on 31.03.2016 (MW)	Generation (MU)
ANDHRA PRADESH Total			15687.2	58230.59
KARNATAKA	THERMAL	COAL	6280	32401.17
		DIESEL	234.42	0
	THERMAL Total		6514.42	32401.17
	HYDRO		3657.4	7479.37
	NUCLEAR		880	7672.71
KARNATAKA Total			11051.82	47553.25
KERALA	THERMAL	DIESEL	234.6	146.84
		NAPTHA	533.58	142.75
	THERMAL Total		768.18	289.59
	HYDRO		1881.5	6363.75
KERALA Total			2649.68	6653.34
PUDUCHERRY	THERMAL	NATURAL GAS	32.5	227.59
TAMIL NADU	THERMAL	COAL	9370	44371.67
		LIGNITE	3240	19341.12
		DIESEL	411.7	76.23
		NAPTHA	120	8.72
		NATURAL GAS	907.18	2663.06
	THERMAL Total		14048.839	66460.8
	HYDRO		2182.2	4474.27
	NUCLEAR		1440	5471.76
TAMIL NADU Total			17671.04	76406.83
TELANGANA	THERMAL		6082.5	35352.73
	HYDRO		2656.6	1515.47
TELANGANA Total			8739.1	36868.2
ANDAMAN NICOBAR	THERMAL	DIESEL	40.05	182.85
BIHAR	THERMAL	COAL	4535	20827.01
DVC	THERMAL	COAL	7900	27853.42
		NATURAL GAS	90	0
	THERMAL Total		7990	27853.42
	HYDRO		143.2	176.51
DVC Total			8133.2	28029.93
JHARKHAND	THERMAL Total		3140	15882.43
	HYDRO		130	51.24
JHARKHAND Total			3270	15933.67
ODISHA	THERMAL		8880	52311.46
	HYDRO		2142.25	4910.34
ODISHA Total			11022.25	57221.8
SIKKIM	HYDRO		765	3551.92
WEST BENGAL	THERMAL	COAL	9601.38	44921.29
		HIGH SPEED DIESEL	100	0
	THERMAL Total		9701.38	44921.29
	HYDRO		1189	2025.33
WEST BENGAL Total			10890.38	46946.62
ARUNACHAL PRADESH	HYDRO		405	1280.25
ASSAM	THERMAL	COAL	250	117.12
		NATURAL GAS	591.7	3214.32
		MULTI FUEL	60	0
	THERMAL Total		901.7	3331.44
	HYDRO		300	1190.68
ASSAM Total			1201.7	4522.12
MANIPUR	THERMAL Total		36	0
	HYDRO		105	536.64
MANIPUR Total			141	536.64
MEGHALAYA	HYDRO		357	1035.99
NAGALAND	HYDRO		75	163.14
TRIPURA	THERMAL	NATURAL GAS	1106.6	5109.38

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ANNEX-II

ANNEX REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1568 TO BE ANSWERED IN THE LOK SABHA ON 24.11.2016.

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State wise target fixed and achieved for power generation from various sources during the years 2014-15 and 2013-14

State	CATEGORY	Fuel	2014-15		2013-14	
			Target (MU)	Generation (MU)	Target (MU)	Generation (MU)
BBMB	HYDRO		9275	10599.78	9665	12125.01
DELHI	THERMAL	COAL	5050	3704.75	5400	4526.37
		NATURAL GAS	4000	5018.08	4432	4111.3
	THERMAL Total		9050	8722.83	9832	8637.67
DELHI Total			9050	8722.83	9832	8637.67
HARYANA	THERMAL	COAL	28028	27177.18	34521	24642.35
		NATURAL GAS	1600	1571.43	2010	1731.87
	THERMAL Total		29628	28748.61	36531	26374.22
HARYANA Total			29628	28748.61	36531	26374.22
HIMACHAL PRADESH	HYDRO		22667	23319.13	21612	21680.66
JAMMU AND KASHMIR	HYDRO		12597	14485.02	12927	12426.79
PUNJAB	THERMAL	COAL	22910	18921.83	19597	16817.97
	HYDRO		3938	4039.07	3920	3913.52
PUNJAB Total			26848	22960.9	23517	20731.49
RAJASTHAN	THERMAL	COAL	31318	32759.78	23146	25777.92
		LIGNITE	7043	9089.71	7172	6010.48
		NATURAL GAS	2650	3750.71	3585	3769.85
	THERMAL Total		41011	45600.2	33903	35558.25
	HYDRO		535	863.33	562	1059.98
	NUCLEAR		7645	7722.39	7778	9233.13
RAJASTHAN Total			49191	54185.92	42243	45851.36
UTTAR PRADESH	THERMAL	COAL	105713	103569.23	100714	102705.93
		NATURAL GAS	5000	4194.28	7080	5191.85
	THERMAL Total		110713	107763.51	107794	107897.78
	HYDRO		1112	1247.69	1006	1241.73
	NUCLEAR		2834	2890.54	2886	2703.5
UTTAR PRADESH Total			114659	111901.74	111686	111843.01
UTTARAKHAND	HYDRO		11680	11439.22	11905	11025.01
CHHATTISGARH	THERMAL	COAL	77974	79452.39	68832	70678.61
	HYDRO		250	258.18	250	251.51
CHHATTISGARH Total			78224	79710.57	69082	70930.12
GOA	THERMAL	NAPTHA	254	12.61	254	241.32
GUJARAT	THERMAL	COAL	79180	84968.56	71441	74375.3
		LIGNITE	6815	6258.01	6567	5813.03
		NATURAL GAS	5140	6970.99	10696	6151.64
	THERMAL Total		91135	98197.56	88704	86339.97
	HYDRO		4301	3811.58	3831	7106.29
	NUCLEAR		3116	3529.4	3282	3752.43
GUJARAT Total			98552	105538.54	95817	97198.69
MADHYA PRADESH	THERMAL	COAL	59327	68912.72	48467	50430.94
	HYDRO		6030	6299.75	6374	9215.93
MADHYA PRADESH Total			65357	75212.47	54841	59646.87
MAHARASHTRA	THERMAL	COAL	81274	87035.78	82368	72507.42
		NATURAL GAS	5950	4715.66	3791	6052.95
	THERMAL Total		87224	91751.44	86159	78560.37
	HYDRO		5337	5287.88	5388	6255.03
	NUCLEAR		7940	10269.89	9081	9884.54
MAHARASHTRA Total			100501	107309.21	100628	94699.94
ANDHRA PRADESH	THERMAL	COAL	39959	40821.87	38509	38256.22
		DIESEL	0	0	0	0
		NATURAL GAS	4421	2561.07	3856	5244.06
	THERMAL Total		44380	43382.94	42365	43500.28
	HYDRO		1886	1862.48	1860	2026.57
ANDHRA PRADESH Total			46266	45245.42	44225	45526.85

KARNATAKA	THERMAL	COAL	31249	30540.83	30120	29774.22
		DIESEL	0	0	37	24.41
	THERMAL Total		31249	30540.83	30157	29798.63
	HYDRO		12763	13160.29	11751	13026.82
	NUCLEAR		5607	6462.17	5778	6539.06
KARNATAKA Total			49619	50163.29	47686	49364.51
KERALA	THERMAL	DIESEL	180	207.69	400	220.88
		NAPTHA	350	973.83	655	1320.74
	THERMAL Total		530	1181.52	1055	1541.62
	HYDRO		6849	6852.65	6589	7708.18
KERALA Total			7379	8034.17	7644	9249.8
PUDUCHERRY	THERMAL	NATURAL GAS	242	102.14	230	256.97
TAMIL NADU	THERMAL	COAL	35054	35818.52	24276	28299.38
		LIGNITE	19479	20155.96	19261	20416.18
		DIESEL	1195	1045.97	1450	1451.39
		NAPTHA	0	2.85	0	0.85
		NATURAL GAS	3950	4109.01	2750	4933.02
	THERMAL Total		59678	61132.31	47737	55100.82
	HYDRO		5061	5058.95	4656	4994.75
	NUCLEAR		8158	5227.15	6395	2115.13
TAMIL NADU Total			72897	71418.41	58788	62210.7
TELANGANA	THERMAL	COAL	34857	36501.05	35477	34650.71
	HYDRO		4702	4400.92	4257	4502.16
TELANGANA Total			39559	40901.97	39734	39152.87
			215962	215865.4	198307	205761.7
ANDAMAN NICOBAR	THERMAL	DIESEL	150	153.76	100	171.49
BIHAR	THERMAL	COAL	17215	18272.27	15810	14939.36
BIHAR Total			17215	18272.27	15810	14939.36
DVC	THERMAL	COAL	33497	25283.81	33300	27889.66
	HYDRO		218	267.3	283	225.63
DVC Total			33715	25551.11	33583	28115.29
JHARKHAND	THERMAL	COAL	15460	14588.15	14419	14235.65
	HYDRO		128	33.73	160	109.53
JHARKHAND Total			15588	14621.88	14579	14345.18
ODISHA	THERMAL	COAL	39815	44412.95	37022	38664.74
	HYDRO		5913	6919.49	5991	7547.45
ODISHA Total			45728	51332.44	43013	46212.19
SIKKIM	HYDRO		3469	3345.29	3378	2945.38
WEST BENGAL	THERMAL	COAL	46338	47592.21	49852	44674.32
	HYDRO		1498	2149.81	1720	1395.56
WEST BENGAL Total			47836	49742.02	51572	46069.88
			163701	163018.77	162035	152798.77
ARUNACHAL PRADESH	HYDRO		1200	1109.48	1250	980.94
ASSAM	THERMAL	COAL				
		NATURAL GAS	2968	3267.95	2995	3149.27
		MULTI FUEL	0	0	0	0
	THERMAL Total		2968	3267.95	2995	3149.27
	HYDRO		1154	1031.89	1070	1215.95
ASSAM Total			4122	4299.84	4065	4365.22
MANIPUR	HYDRO		520	372.44	500	639.84
MEGHALAYA	HYDRO		987	863.15	1131	981.61
NAGALAND	HYDRO		227	165.15	227	245.71
TRIPURA	THERMAL	NATURAL GAS	2998	3824.44	2145	2366.49
Bhutan (IMP)	HYDRO		4800	5007.74	4800	5597.9

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ANNEX-III

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1568 TO BE ANSWERED IN THE LOK SABHA ON 24.11.2016.

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Details of capacity addition / deletion / up-ration during the year 2015-16

Activity	Hydro	Thermal				Nuclear	Total (2+6+7)
		Steam	Diesel	Gas	Total (Thermal) (3+4+5)		
1	2	3	4	5	6	7	8
Gross Addition	1516	20915	0	1546	22461	0	23977
Deletion/ Retirement	0	-400	-206	-100	-706	0	-706
Up-rating	0	22	0	1	23	0	23
Net Addition	1516	20537	-206	1446	21777	0	23293

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ANNEX-IV

ANNEX REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1568 TO BE ANSWERED IN THE LOK SABHA ON 24.11.2016.

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Details of Hydro Electric Projects under examination in CEA

(As on 31.10.2016)

S. No.	Hydro Electric Project	State	Developer	Installed Capacity (MW)
1	Kwar HEP	J&K	CVPP	540
2	Sawalkot HEP	J&K	JKPDC	1856
3	Jelam Tamak HEP	Uttarakhand	THDCIL	108
4	Bowala Nand Prayag HEP	Uttarakhand	UJVNL	300
5	Dagmara HEP	Bihar	BSHPCL	130
6	Umngot HEP	Meghalaya	MCPGCL	210
7	Subansiri Middle (Kamla) HEP	Ar. Pradesh	KHEPCL	1800
8	Attunli HEP	Ar. Pradesh	AHEPCL	680
9	Loktak D/S HEP	Manipur	LDHCL	66
10	Mago Chu HEP	Ar. Pradesh	SMCPCL	96
11	Kirthai II HEP	J &K	JKPDC	930
12	Dugar HEP	H.P	DHPL	449
	Total			7165

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