

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.2671
TO BE ANSWERED ON 02.08.2018**

HYDRO PROJECTS IN THE COUNTRY

2671. SHRI R.P. MARUTHARAJAA:

**Will the Minister of POWER
be pleased to state:**

- (a) the details of Hydro Projects in operation in the country, State and Sector- wise;**
- (b) the capacity addition of hydro power during the last four years, State and Sector-wise; and**
- (c) the capacity addition of hydro power, plan, State and Sector-wise?**

A N S W E R

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

(SHRI R. K. SINGH)

(a) : The details of Hydro Projects above 25 MW capacity, in operation in the country as on 30.06.2018, State-wise and Sector-wise, are enclosed at Annex-I.

(b) : A total hydro capacity addition of 4816 MW capacity has been added during the last four years and the current year in the Country. The Sector-wise / State-wise details of these projects are at Annex-II.

(c) : Plan-wise, State-wise and Sector-wise details of the capacity addition of hydro power (above 25 MW) since 9th Plan are given at Annex-III.

**ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 2671
TO BE ANSWERED IN THE LOK SABHA ON 02.08.2018.**

**State-wise/Sector-wise Installed Capacity of H.E. Stations in the Country
(Above 25 MW Capacity)**

Sl. No.	Utilities / Stations / Developer	Installed Capacity (MW)
A. Conventional H E Stations		
I. NORTHERN REGION		
HIMACHAL PRADESH		
Central Sector		
1	Bhakra Left, BBMB	540.00
2	Bhakra Right, BBMB	785.00
3	Dehar, BBMB	990.00
4	Pong, BBMB	396.00
5	Baira Siul, NHPC	180.00
6	Chamera-I, NHPC	540.00
7	Chamera-II, NHPC	300.00
8	Chamera-III, NHPC	231.00
9	Parbati-III, NHPC	520.00
10	Nathpa Jhakri, SJVNL	1500.00
11	Rampur, SJVNL	412.02
12	Koldam, NTPC	800.00
Total Central Sector-HP		7194.02
State Sector		
13	Bassi, HPSEBL	66.00
14	Giri Bata, HPSEBL	60.00
15	Larji, HPSEBL	126.00
16	Sanjay, HPSEBL	120.00
17	Integrated Kashang, HPPCL	195
18	Sainj, HPPCL	100
19	Shanan, PSPCL	110.00
Total State Sector		777.00
Private Sector		
20	Malana, MPCL	86.00
21	Budhil, GBHPPL	70.00
22	Malana-II, EPPL	100.00
23	Chanju-I, IA Energy	36.00
24	Allain Duhangan, ADHPL	192.00
25	Baspa, HBPCL	300.00
26	Karcham Wangtoo, HBPCL	1000.00
Total Private Sector		1784.00
Total Himachal Pradesh		9755.02
JAMMU & KASHMIR		
Central Sector		
27	Dulhasti, NHPC	390.00
28	Salal-I&II, NHPC	690.00
29	Uri-I, NHPC	480.00
30	Uri-II, NHPC	240.00
31	Sewa-II, NHPC	120.00
32	Chutak, NHPC	44.00
33	Nimoo Bazgo, NHPC	45.00
34	Kishanganga, NHPC	330.00
State Sector		
35	Baglihar-I, JKSPDC	450.00
36	Baglihar-II, JKSPDC	450.00
37	Lower Jhelum, JKSPDC	105.00
38	Upper Sindh-II, JKSPDC	105.00
Total JAMMU & KASHMIR		3449.00

	PUNJAB	
	Central Sector	
39	Ganguwal, BBMB	77.65
40	Kotla, BBMB	77.65
	Total Central Sector	155.30
	State Sector	
41	Andadpur Sahib-I, PSPCL	67.00
42	Andadpur Sahib-II, PSPCL	67.00
43	Mukerian-I, PSPCL	45.00
44	Mukerian-II, PSPCL	45.00
45	Mukerian-III, PSPCL	58.50
46	Mukerian-IV, PSPCL	58.50
47	Ranjit Sagar, PSPCL	600.00
	Total State Sector	941.00
	Total Punjab	1096.30
	RAJASTHAN	
	State Sector	
48	Jawahar Sagar, RRVUNL	99.00
49	Mahi Bajaj-I, RRVUNL	50.00
50	Mahi Bajaj-II, RRVUNL	90.00
51	R P Sagar, RRVUNL	172.00
	Total State Sector	411.00
	Total Rajasthan	411.00
	UTTARAKHAND	
	Central Sector	
52	Dhaulti Ganga, NHPC	280.00
53	Tanakpur, NHPC	94.20
54	Tehri St-I, THDC	1000.00
55	Koteshwar, THDC	400.00
	Total Central Sector	1774.20
	State Sector	
56	Chibro (Yamuna). UJVNL	240.00
57	Chilla, UJVNL	144.00
58	Dhakrani, UJVNL	33.75
59	Dhalipur, UJVNL	51.00
60	Khatima, UJVNL	41.40
61	Khodri, UJVNL	120.00
62	Kulhal, UJVNL	30.00
63	Maneri Bhali-I, UJVNL	90.00
64	Maneri Bhali-II, UJVNL	304.00
65	Ramganga, UJVNL	198.00
	Total State Sector	1252.15
	Private Sector	
66	Shrinagar, AHPC	330.00
67	Vishnu Prayag, JPPVL	400.00
	Total Private Sector	730.00
	Total Uttarakhand	3756.35
	UTTAR PRADESH	
	State Sector	
68	Khara, UPJVNL	72.00
69	Matatila, UPJVNL	30.60
70	Obra, UPJVNL	99.00
71	Rihand, UPJVNL	300.00
	Total State Sector	501.60
	Total Uttar Pradesh	501.60
	Total Northern Region	18969.27
II. WESTERN REGION		
	MADHYA PRADESH	
	Central Sector	
72	Indira Sagar, NHDC	1000.00
73	Omkareshwar, NHDC	520.00
	Total Central Sector	1520.00

	State Sector	
74	Bansagar Tons-I, MPPGCL	315.00
75	Bansagar Tons-III, MPPGCL	30.00
76	Bansagar Tons-II, MPPGCL	60.00
77	Bargi, MPPGCL	90.00
78	Gandhi Sagar, MPPGCL	115.00
79	Madhikhera, MPPGCL	60.00
80	Rajghat, MPPGCL	45.00
	Total State Sector	715.00
	Total Madhya Pradesh	2235.00
	MAHARASHTRA	
	State Sector	
81	Bhira Tail Race, MAHAGENCO	80.00
82	Koyna DPH, MAHAGENCO	36.00
83	Koyna-I&II, MAHAGENCO	600.00
84	Koyna-III, MAHAGENCO	320.00
85	Koyna-IV, MAHAGENCO	1000.00
86	Tillari, MAHAGENCO	60.00
87	Vaitarna, MAHAGENCO	60.00
88	Pench, MPPGCL	160.00
	Total State Sector	2316.00
	Private Sector	
89	Bhandardhara St-II, DLHP	34.00
90	Bhira, Tata Power Company	150.00
91	Bhivpuri, Tata Power Company	75.00
92	Khopoli, Tata Power Company	72.00
	Total Private Sector	331.00
	Total Maharashtra	2647.00
	CHHATISGARH	
	State Sector	
93	Hasdeobango, CSPGCL	120.00
	Total Chhattisgarh	120.00
	GUJARAT	
	State Sector	
94	Ukai, GSECL	300.00
95	Sardar Sarovar CHPH, SSNNL	250.00
	Total Gujarat	550.00
	Total Western Region	5552.00
III. SOUTHERN REGION		
	ANDHRA PRADESH	
	State Sector	
96	Lower Sileru, APGENCO	460.00
97	N J Sagar RBC & EXT., APGENCO	90.00
98	Srisaillam, APGENCO	770.00
99	Upper Sileru-I&II, APGENCO	240.00
100	N J Sagar TPD, APGENCO	50.00
	Total State Sector	1610.00
	Total Andhra Pradesh	1610.00
	TELANGANA	
	State Sector	
101	Priyadarshni Jurala, TSGENCO	234.00
102	Pochampad, TSGENCO	36.00
103	N J Sagar, TSGENCO	110.00
104	N J Sagar LBC, TSGENCO	60.00
105	Lower Jurala, TSGENCO	240.00
106	Pulinchinthala, TSGENCO	90.00
	Total State Sector	770.00
	Total Telangana	770.00
	KARNATAKA	
	State Sector	
107	Almatti, KPCL	290.00
108	Gerusoppa(Sharavathy Tail Race), KPCL	240.00

109	Ghat Prabha, KPCL	32.00
110	Mahatma Gandhi (Jog), KPCL	139.20
111	Kadra, KPCL	150.00
112	Kalinadi (Nagjhari), KPCL	855.00
113	Kalinadi (Supa), KPCL	100.00
114	Kodasali, KPCL	120.00
115	Lingnamakki, KPCL	55.00
116	Munirabad, KPCL	28.00
117	Sharavathy, KPCL	1035.00
118	Sivasamundrum, KPCL	42.00
119	Varahi, KPCL	460.00
120	Bhadra, KPCL	26.00
121	T B Dam, APGENCO	36.00
122	Hampi, APGENCO	36.00
	Total State Sector	3644.20
	Total Karnataka	3644.20
	KERALA	
	State Sector	
123	Idamalayar, KSEB	75.00
124	Idukki, KSEB	780.00
125	Kakkad, KSEB	50.00
126	Kuttiyadi, KSEB	75.00
127	Kuttiyadi Extn., KSEB	50.00
128	Kuttiyadi Additional Extn., KSEB	100.00
129	Lower Periyar, KSEB	180.00
130	Nariamangalam, KSEB	45.00
131	Pallivasal, KSEB	37.50
132	Panniar, KSEB	30.00
133	Poringalkuttu, KSEB	32.00
134	Sabirigiri, KSEB	300.00
135	Sengulam, KSEB	48.00
136	Sholayar, KSEB	54.00
	Total State Sector	1856.50
	Total Kerala	1856.50
	TAMIL NADU	
	State Sector	
137	Aliyar, TANGEDCO	60.00
138	Bhavani Kattalai Barrage-I, TANGEDCO	30.00
139	Bhavani Kattalai Barrage-II, TANGEDCO	30.00
140	Bhavani Kattalai Barrage-III, TANGEDCO	30.00
141	Kodayar-I, TANGEDCO	60.00
142	Kodayar-I, TANGEDCO	40.00
143	Kundah-I, TANGEDCO	60.00
144	Kundah-II, TANGEDCO	175.00
145	Kundah-III, TANGEDCO	180.00
146	Kundah-IV, TANGEDCO	100.00
147	Kundah-V, TANGEDCO	40.00
148	Lower Mettur-I, TANGEDCO	30.00
149	Lower Mettur-II, TANGEDCO	30.00
150	Lower Mettur-III, TANGEDCO	30.00
151	Lower Mettur-IV, TANGEDCO	30.00
152	Mettur Dam, TANGEDCO	50.00
153	Mettur Tunnel, TANGEDCO	200.00
154	Moyar, TANGEDCO	36.00
155	Papanasam, TANGEDCO	32.00
156	Parson's Valley, TANGEDCO	30.00
157	Periyar, TANGEDCO	161.00
158	Pykara, TANGEDCO	59.20
159	Pykara Ultimate, TANGEDCO	150.00
160	Sarakarpathy, TANGEDCO	30.00

161	Sholayar-I, TANGEDCO	70.00
162	Suruliyar, TANGEDCO	35.00
	Total State Sector	1778.20
	Total Tamilnadu	1778.20
	Total Southern Region	9658.90
IV. EASTERN REGION		
	WEST BENGAL	
	Central Sector	
163	Maithon, DVC	63.20
164	Teesta Low Dam-III, NHPC	132.00
165	Teesta Low Dam-IV, NHPC	160.00
	Total Central Sector	355.20
	State Sector	
166	Jaldhaka, WBSEDCL	36.00
167	Rammam, WBSEDCL	50.00
	Total State Sector	86.00
	Total West Bengal	441.20
	SIKKIM	
	Central Sector	
168	RANGIT-III, NHPC	60.00
169	Teesta-V, NHPC	510.00
	Total Central Sector	570.00
	State Sector	
170	Teesta-III, Teesta Urja Ltd.	1200.00
	Total State Sector	1200.00
	Private Sector	
171	Chujachen, GIPL (Gati Infra Pvt. Ltd.)	110.00
172	Dikchu, Sneha Kinetic Power Projects Pvt. Ltd.	96.00
173	Tashiding, Shiga Energy Pvt. Ltd.(SEPL)	97.00
174	Jorethang Loop, DANS Energy Pvt. Ltd.	96.00
	Total Private Sector	399.00
	Total Sikkim	2169.00
	JHARKHAND	
	Central Sector	
175	Panchet, DVC	40.00
	Total Central Sector	40.00
	State Sector	
176	Subernrekha-I, JUUNL	65.00
177	Subernrekha-II, JUUNL	65.00
	Total State Sector	130.00
	Total Jharkhand	170.00
	ODISHA	
	State Sector	
178	Balimela, OHPC	510.00
179	Hirakud (Burla), OHPC	275.50
180	Hirakud (Chiplima), OHPC	72.00
181	Rengali, OHPC	250.00
182	Upper Indravati, OHPC	600.00
183	Upper Kolab, OHPC	320.00
184	Machkund, APGENCO	114.75
	Total State Sector	2142.25
	Total Odisha	2142.25
	Total Eastern Region	4922.45
V. NORTH EASTERN REGION		
	ARUNACHAL PRADESH	
	Central Sector	
185	Ranganadi, NEEPCO	405.00
186	Pare, NEEPCO	110.00
	Total Central Sector	515.00
	Total Arunachal Pradesh	515.00

	ASSAM	
	Central Sector	
187	Kopoli, NEEPCO	200.00
188	Khondong, NEEPCO	50.00
	Total Central Sector	250.00
	State Sector	
189	Karbi Langpi, APGCL	100.00
	Total State Sector	100.00
	Total Assam	350.00
	MIZORAM	
	Central Sector	
190	Tuirial, NEEPCO	60.00
	Total Central Sector	60.00
	Total Mizoram	60.00
	NAGALAND	
	Central Sector	
191	Doyang, NEEPCO	75.00
	Total Central Sector	75.00
	Total Nagaland	75.00
	MANIPUR	
	Central Sector	
192	Loktak, NHPC	105.00
	Total Central Sector	105.00
	Total Manipur	105.00
	MEGHALAYA	
	State Sector	
193	Kyrdemkulai, MePGCL	60.00
194	Umiam St. I, MePGCL	36.00
195	New Umetru, MePGCL	40.00
196	Umiam St. IV, MePGCL	60.00
197	Myntdu St-I, MePGCL	126.00
	Total State Sector	322.00
	Total Meghalaya	322.00
	Total NE Region	1427.00
	TOTAL CONVENTIOAL	40529.62
B. Pumped Storage H.E. Stations (PSS)		
I. WESTERN REGION		
	GUJARAT	
	State Sector	
1	Kadana, GSECL	240.00
2	Sardar Sarovar CBPH, SSNNL	1200.00
	Total Gujarat	1440.00
	MAHARASHTRA	
	State Sector	
3	Ghatgarh, MAHAGENCO	250.00
	Private Sector	
4	Bhira, Tata Power Company	150.00
	Total Maharashtra	400.00
	Total Western Region	1840.00
II. Southern Region		
	TELANGANA	
	State Sector	
5	N J Sagar, TSGENCO	705.60
6	Srisaillam LBPG, TSGENCO	900.00
	Total TELANGANA	1605.60
	TAMIL NADU	
	State Sector	
7	KADAMPARAI, TENGEDCO	400.00
	Total TAMIL NADU	400.00
	Total Southern Region	2005.60

III. Eastern Region		
	JHARKHAND	
	Central Sector	
8	Panchet, DVC	40.00
	Total Jharkhand	40.00
	WEST BENGAL	
	State Sector	
9	Purulia, WBSEDCL	900.00
	Total West Bengal	900.00
	Total Eastern Region	940.00
	Total- PUMPED STORAGE STATIONS	4785.60
Grand Total (Conventional + Pumped Storage Stations)		45315.22

NOTE: The Total No. of HE Stations is 204 as following two Hydro Stations have conventional as well as PSS capacity:

S. No.	Station/State/Region	Conventional	PSS
1	N J Sagar / Telangana/ Southern	1X110=110	7X100.8=705.60
2	Panchet / Jharkhand / Eastern	1X40=40	1X40=40

ANNEX-II

ANNEX REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 2671 TO BE ANSWERED IN THE LOK SABHA ON 02.08.2018.

HYDRO CAPACITY ADDITION DURING THE LAST FOUR YEARS AND CURRENT YEAR (2014-15 to 2018-19)

**(As on
30.06.2018)**

State	Sector-wise Capacity Addition (MW)			Total Capacity Addition (MW)
	Central	State	Private	
2014-15				
Himachal Pradesh	736	00	00	736
2015-16				
Himachal Pradesh	400	00	00	400
West Bengal	80	00	00	80
Jammu & Kashmir	00	450	00	450
Telangana	00	160	00	160
Uttarakhand	00	00	330	330
Sikkim	00	00	96	96
Total	480	610	426	1516
2016-17				
West Bengal	80	00	00	80
Himachal Pradesh	00	195	24	219
Telangana	00	110	00	110
Andhra Pradesh	00	50	00	50
Sikkim	00	1200	00	1200
Total	80	1555	24	1659
2017-18				
Himachal Pradesh	00	100	12	112
Meghalaya	00	40	00	40
Mizoram	60	00	00	60
Jammu & Kashmir	330	00	00	330
Telangana	00	60	00	60
Sikkim	00	00	193	193
Total	390	200	205	795
2018-19 (As on 30.06.2018)				
Arunachal Pradesh	110	00	00	110
Grand Total				4816

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 2671 TO BE ANSWERED IN THE LOK SABHA ON 02.08.2018.

CAPACITY ADDITION (MW) SINCE 9TH PLAN (Above 25 MW)

State	Sector	9th Plan	10th Plan	11th Plan	12th Plan
Assam	Central Sector	0	25	0	0
	State Sector	0	100	0	0
	Private Sector	0	0	0	0
Andhra Pradesh	Central Sector	0	0	0	0
	State Sector	450	450	234	50
	Private Sector	0	0	0	0
Arunachal Pradesh	Central Sector	405	0	0	0
	State Sector	0	0	0	0
	Private Sector	0	0	0	0
Gujarat	Central Sector	0	0	0	0
	State Sector	60	1450	0	0
	Private Sector	0	0	0	0
Himachal Pradesh	Central Sector	0	1800	0	1963
	State Sector	0	126	0	195
	Private Sector	86	300	1292	94
Jammu & Kashmir	Central Sector	0	390	120	779
	State Sector	105	0	450	0
	Private Sector	0	0	0	0
Karnataka	Central Sector	0	0	0	0
	State Sector	510	125	230	0
	Private Sector	0	165	0	0
Kerala	Central Sector	0	0	0	0
	State Sector	220	0	100	0
	Private Sector	0	0	0	0
Madhya Pradesh	Central Sector	0	1000	520	0
	State Sector	100	95	0	0
	Private Sector	0	0	0	0
Maharashtra	Central Sector	0	0	00	0
	State Sector	1000	0	250	0
	Private Sector	0	0	0	0
Meghalaya	Central Sector	0	0	0	0
	State Sector	0	0	84	42
	Private Sector	0	0	0	0
Nagaland	Central Sector	75	0	0	0
	State Sector	0	0	0	0
	Private Sector	0	0	0	0
Odisha	Central Sector	0	0	0	0
	State Sector	600	0	150	0
	Private Sector	0	0	0	0
Punjab	Central Sector	0	0	0	0
	State Sector	600	0	0	0
	Private Sector	0	0	0	0
Sikkim	Central Sector	60	0	510	0
	State Sector	0	0	0	1200
	Private Sector	0	0	0	195
Tamil Nadu	Central Sector	0	0	0	0
	State Sector	30	180	0	60
	Private Sector	0	0	0	0
Telangana	Central Sector	0	0	0	0
	State Sector	0	0	0	270
	Private Sector	0	0	0	0
Uttarakhand	Central Sector	0	1280	400	0
	State Sector	0	0	304	0
	Private Sector	0	400	0	330
West Bengal	Central Sector	0	0	0	292
	State Sector	0	0	900	9
	Private Sector	0	0	0	0
Total		4301	7886	5544	5479
