

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.3967
TO BE ANSWERED ON 12.12.2019**

HYDRO ELECTRIC PLANTS

3967. SHRI ANTO ANTONY:

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

- (a) whether the Government proposes to encourage power generation from hydroelectric plants in the country;**
- (b) if so, the details of power generation from hydro electric power plants in the country during the last five years, plant and year-wise;**
- (c) whether the Government has any statistics regarding number of hydro electric plants commissioned and decommissioned in the country during the last five years and if so, the details thereof, plant and year-wise;**
- (d) whether the Government has any plan to set up more power plants in the country and if so, the details thereof;**
- (e) whether the Government is aware of the apprehensions that the dams being used for power generation are causing floods during rainy season and if so, the details thereof; and**
- (f) whether the Government has conducted any study in this regard and if so, the details thereof?**

A N S W E R

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

(SHRI R.K. SINGH)

(a) : Yes, Sir. Government have recently approved measures to promote hydropower sector, which includes the following:

- i) Declaring Large Hydropower Projects (>25 MW) as Renewable Energy,**
- ii) Hydropower Purchase Obligation(HPO),**
- iii) Tariff rationalisation measures,**
- iv) Budgetary support for flood moderation component**
- v) Budgetary support for enabling infrastructure like bridges, roads etc.**

(b) : The year-wise and plant-wise details of hydroelectric power generation in the country during the last five years are enclosed at Annexure-I.

.....2.

(c) : During the last 5 years i.e. 2014-15 to 2018-19, 27 no. of hydroelectric plants of above 25 MW capacity aggregating 4846 MW have been commissioned in the country. The year-wise & plant-wise details, in this regard, are enclosed at Annexure-II. No hydroelectric plant of above 25 MW capacity has been decommissioned in the country during the last five years.

(d) : Presently, 36 no. of hydro power projects above 25 MW capacity with an aggregate capacity of 12409.50 MW are under construction in the country (Annexure-III).

(e) & (f) : Dams used for hydro power generation do not cause any floods during rainy season. Rather Storage based hydro power projects have the capability to absorb floods during rainy season depending upon the extent of storage available and the prevailing reservoir levels at the time of occurrence of floods. As per the study conducted in Central Water Commission, Tehri Hydro project in the Year 2013 played a vital role in flood mitigation in the downstream area floods caused by unprecedented rainfall in the catchment area of Bhagirath River and its tributaries. It attenuated the flood peak at Haridwar by about 7000 cumec, resulting a flood peak of about 14500 cumec, which would otherwise have been about 21500 cumec.

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 3967 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2019.

**YEARWISE/PLANTWISE ACTUAL GENERATION VIS-A-VIS TARGET OF H.E.STATIONS
(I. C. ABOVE 25 MW) IN THE COUNTRY DURING THE YEARS 2014-15 TO 2018-19**

Sl. No.	NAME OF THE PLANT	INSTALLED CAPACITY (MW) AS ON 31.03.2019	Energy Generation (MU)				
			2014-15	2015-16	2016-17	2017-18	2018-19
1	Bhakra Left	540.00	5268.15	5892.62	5168.27	5134.02	4238.19
2	Bhakra Right	785.00					
3	Dehar	990.00	3151.06	3339.14	3184.68	3086.24	3226.30
4	Pong	396.00	1327.36	1734.76	1369.93	1641.57	1512.56
5	Baira Siul	180.00	796.67	745.59	669.33	641.73	366.67
6	Chamera-I	540.00	2551.80	2623.70	2224.39	2344.08	2484.56
7	Chamera-II	300.00	1498.71	1523.98	1443.93	1487.11	1508.02
8	Chamera-III	231.00	1020.78	1043.62	917.09	1068.05	1043.42
9	Parbati III	520.00	660.78	643.00	682.48	710.53	608.30
10	Naptha Jhakri	1500.00	6837.50	7313.79	7050.64	7207.73	6507.15
11	Rampur	412.00	1317.57	1983.41	1960.42	2015.00	1828.77
12	Kol Dam	800.00	0.25	2308.60	3225.16	3313.62	3013.93
13	Kashang I	65.00			56.09	197.13	118.24
	Kashang II & III	130.00					
14	Sainj	100.00			0.00	134.99	408.81
15	Bassi	66.00	295.01	315.90	297.76	315.17	251.56
16	Giri Bata	60.00	199.82	189.06	140.60	169.94	214.45
17	Larji	126.00	609.69	656.85	611.66	612.36	593.86
18	Sanjay	120.00	545.09	0.00	187.40	493.39	589.42
19	Shanan	110.00	507.82	532.57	472.88	508.52	472.39
20	Allain Duhangan	192.00	677.78	724.96	679.12	683.01	582.23
21	Malana-II	100.00	250.41	354.42	366.54	368.89	349.39
22	Baspa-II	300.00	1252.58	1304.50	1342.75	1336.65	1275.58
23	Karcham Wangtoo	1000.00	4240.43	4726.32	4372.29	4569.93	3968.69
24	Budhil	70.00	235.83	287.85	261.25	317.63	288.08
25	Chanju I	36.00			11.29	79.42	137.45
26	Malana	86.00	328.43	341.94	353.79	346.29	320.55
27	Chutak	44.00	35.50	36.91	44.12	45.72	48.96
28	Dulhasti	390.00	2176.43	2361.48	2280.02	2343.86	2273.38
29	Nimoo Bazgo	45.00	75.55	90.51	95.21	98.83	105.55
30	Salal I	345.00	3491.58	3591.36	3423.09	3247.09	3412.55
	Salal-II	345.00					
31	Sewa-II	120.00	597.06	597.07	470.61	506.39	498.32
32	Uri	480.00	3076.62	3282.97	2803.10	2349.66	3048.29
33	Uri -II	240.00	1188.18	1195.55	1471.94	1207.44	1580.92
34	Kishenganga	330.00			0.00	1.68	529.25
35	Baglihar	450.00	2939.91	3000.14	2184.56	2506.71	2291.15
36	Baglihar II	450.00		55.60	1758.98	1821.95	1857.91
37	Lower Jhelum	105.00	600.87	666.21	483.15	480.99	589.33
38	Upper Sindh II	105.00	303.32	258.35	362.91	327.24	305.97
39	Ganguwal	77.65	422.89	421.93	416.54	494.09	599.37
40	Kotla	77.65	430.32	430.45	430.58	508.22	609.60
41	Anandpur Sahib - I	67.00	617.50	668.54	673.87	647.81	427.78
42	Anandpur Sahib - II	67.00					
43	Mukerian I	45.00	1050.95	1169.46	1083.51	1270.76	1244.13
44	Mukerian II	45.00					
45	Mukerian III	58.50					
46	Mukerian IV	58.50					

47	Ranjit Sagar	600.00	1862.80	1957.27	1306.08	1803.42	1454.52
48	Jawahar Sagar	99.00	296.17	349.34	307.55	261.10	247.00
49	Mahi Bajaj I	50.00	185.84	166.35	209.66	180.17	117.08
50	Mahi Bajaj II	90.00					
51	R.P. Sagar	172.00	381.32	518.10	448.78	378.26	334.32
52	Khara	72.00	363.92	321.06	268.93	259.14	286.14
53	Matatilla	30.60	80.54	79.01	122.68	93.81	97.48
54	Obra	99.00	229.00	160.09	216.71	299.96	231.03
55	Rihand	300.00	574.23	374.92	567.24	833.78	561.71
56	Dhauliganga	280.00	743.49	1089.63	956.13	1153.16	1106.21
57	Tanakpur	94.20	446.71	452.36	430.29	459.74	452.89
58	Tehri	1000.00	3023.55	3101.00	3146.32	3080.94	3172.08
59	Koteswar	400.00	1210.17	1248.05	1224.55	1220.33	1223.84
60	Chibro (Y.St.II)	240.00	872.10	813.78	714.00	783.57	809.53
61	Chilla	144.00	800.49	753.67	769.35	811.66	632.41
62	Dhakrani (Y.St.I)	33.75	149.41	136.86	120.19	129.68	147.48
63	Dhalipur (Y.St.I)	51.00	231.14	205.06	180.40	186.71	219.99
64	Khatima	41.40	45.18	120.45	180.14	212.60	232.25
65	Khodri (Y.St.II)	120.00	406.99	375.94	333.29	355.75	369.68
66	Kulhal (Y.St.IV)	30.00	156.16	138.98	122.20	123.97	146.55
67	Maneri Bhali-I	90.00	379.14	486.53	349.22	394.77	430.40
68	Maneri Bhali-II	304.00	888.92	1229.06	1251.71	1276.65	1302.34
69	Ram Ganga	198.00	269.83	502.53	180.94	250.64	188.14
70	Srinagar	330.00	0	901.37	1280.75	1382.54	1375.31
71	Vishnu Prayag	400.00	1815.94	1210.65	2042.05	2160.90	1932.02
72	Hasdeo Bango	120.00	258.18	323.30	153.76	178.07	243.08
73	Kadana PSS	240.00	211.53	289.91	339.01	308.92	237.39
74	Ukai	300.00	690.63	491.52	395.66	303.53	210.58
75	Sardar Sarovar CHPH	250.00	611.67	704.55	876.34	562.86	594.84
76	Sardar Sarovar RBPH	1200.00	2297.75	1465.88	2332.87	376.61	0.00
77	Indira Sagar	1000.00	2541.90	1974.21	3320.79	881.76	1308.79
78	Omkareshwar	520.00	1128.93	955.01	1427.70	443.6	612.04
79	Bansagar Tons-I	315.00	1081.36	574.48	1239.02	545.37	578.35
80	Bansagar Tons-II	30.00	86.09	107.48	109.73	56.12	37.09
81	Bansagar Tons-III	60.00	121.05	39.88	53.48	68.80	85.32
82	Bargi	90.00	498.46	328.10	445.47	159.05	356.19
83	Gandhi Sagar	115.00	272.15	383.05	351.00	351.38	249.88
84	Madhikheda	60.00	97.16	92.16	147.21	22.52	88.99
85	Rajghat	45.00	82.53	36.94	62.26	58.21	80.02
86	Bhira Tail Race	80.00	91.25	73.87	101.58	97.15	94.57
87	Ghatghar PSS	250.00	320.25	301.86	383.87	152.83	192.98
88	Koyna DPH	36.00	93.41	136.47	156.02	135.15	196.18
89	Koyna St.I&II	600.00	1163.44	1239.60	1290.21	1051.22	1024.61
90	Koyna St.III	320.00	588.21	534.04	614.14	498.91	480.65
91	Koyna IV	1000.00	1206.74	1066.70	1245.48	945.47	1066.51
92	Tillari	60.00	113.86	44.16	106.16	57.81	110.96
93	Vaitarna	60.00	203.82	122.62	153.52	204.62	154.17
94	Pench	160.00	390.13	378.51	360.14	159.53	131.61
95	Bhandardhara - II	34.00	65.40	82.55	47.12	42.55	56.44
96	Bhira	150.00	837.07	640.34	951.63	341.17	351.02
97	Bhira PSS	150.00				551.13	558.77
98	Bhivpuri	75.00	300.68	196.92	206.59	307.20	315.90
99	Khopoli	72.00	303.75	261.23	307.24	316.38	342.49
100	N.J.Sagar TPD	50.00	0.00	0.00	7.35	42.13	49.92
101	N.J.Sagar RBC	90.00	187.29	0.00	4.15	59.73	101.55
102	Srisailam RB	770.00	1152.73	206.05	640.61	574.95	551.07
103	Upper sileru I & II	240.00	522.47	465.27	340.41	482.22	476.34
104	Lower Sileru	460.00	1287.11	1233.14	831.90	1109.77	1094.06
105	Almatti Dam	290.00	483.01	145.16	404.05	441.58	408.42

106	Bhadra	26.00	50.59	40.08	27.06	15.69	55.21
107	Gerusoppa	240.00	556.90	303.19	276.60	280.89	525.67
108	Ghatprabha	32.00	66.04	31.93	48.74	48.37	80.67
109	Jog	139.20	346.89	318.36	288.25	191.48	194.44
110	Kadra	150.00	405.14	220.48	176.42	192.91	375.85
111	Kalinadi	855.00	3255.42	1948.48	1344.82	1537.28	2777.85
112	Supa DPH	100.00	453.32	324.94	239.20	290.98	596.16
113	Kodasali	120.00	385.76	203.26	154.16	170.94	345.56
114	Lingnamakki	55.00	256.27	118.94	105.64	125.55	252.53
115	Munirabad	28.00	107.20	61.83	31.49	51.38	89.42
116	Sharavathy	1035.00	5255.46	2664.50	2708.77	2722.35	4786.18
117	Shivasamudram	42.00	221.93	216.46	145.14	176.81	284.19
118	Varahi	460.00	1131.72	752.39	740.75	762.44	1243.79
119	T.B.Dam	36.00	184.65	129.36	81.26	133.97	171.75
120	Hampi	36.00					
121	Idamalayar	75.00	372.66	273.00	171.72	256.26	345.50
122	Idukki	780.00	2494.20	2372.40	1380.06	1611.06	2920.43
123	Kakkad	50.00	192.94	184.22	131.68	159.88	221.66
124	Kuttiadi & Kuttiady Addl.	75.00	740.47	578.05	478.72	601.06	693.38
125	Kuttiadi Extn.	50.00					
126	Kuttiadi Addl. Extn.	100.00					
127	Lower Periyar	180.00	577.15	510.72	307.23	507.74	525.18
128	Neriamangalam	45.00	343.30	350.50	197.30	310.60	377.85
129	Pallivasal	37.50	211.66	218.69	166.05	188.39	185.25
130	Panniar	30.00	154.90	174.30	62.33	129.47	114.59
131	Poringalkuthu	32.00	151.02	159.70	91.10	116.74	94.60
132	Sabarigiri	300.00	1224.73	1171.17	798.79	968.46	1516.40
133	Sengulam	48.00	151.37	160.99	115.66	144.91	122.98
134	Sholayar	54.00	238.25	210.01	166.85	204.69	202.39
135	Aliyar	60.00	158.35	152.96	61.73	90.08	48.57
136	Bhawani K Barrage-III	30.00	0.00	5.68	17.47	0.00	34.06
137	Bhawani K Barrage-II	30.00	137.56	7.03	19.83	37.62	77.16
138	Bhawani K Barrage-I	30.00	67.90	156.51	20.59	16.96	70.20
139	Kadamparai PSS	400.00	502.50	412.63	289.39	384.36	434.75
140	Kodayar I	60.00	202.02	278.58	169.43	123.98	194.08
141	Kodayar II	40.00					
142	Kundah I	60.00	1550.67	1372.44	815.61	806.23	1608.99
143	Kundah II	175.00					
144	Kundah III	180.00					
145	Kundah IV	100.00					
146	Kundah V	40.00					
147	Lower Mettur I	30.00	266.71	223.36	92.27	131.95	220.32
148	Lower Mettur II	30.00					
149	Lower Mettur III	30.00					
150	Lower Mettur IV	30.00					
151	Mettur Dam	50.00	442.62	341.43	125.48	52.24	147.96
152	Mettur Tunnel	200.00				163.32	440.59
153	Moyar	36.00	144.73	103.64	61.52	94.40	161.99
154	Papanasam	32.00	118.23	116.57	66.54	115.28	120.91
155	Parson's Valley	30.00	34.83	25.63	23.95	27.11	45.94
156	Periyar	161.00	527.56	504.79	93.91	287.10	703.00
157	Pykara	59.20	39.00	56.89	12.74	0.98	22.05
158	Pykara Ultimate	150.00	367.03	280.56	192.55	274.11	507.96
159	Sarkarpathy	30.00	134.24	79.28	63.29	85.46	129.65
160	Sholayar I	70.00	261.58	263.79	228.11	157.73	220.86
161	Suruliyar	35.00	103.43	92.50	42.71	70.69	92.55
162	Lower Jurala	240.00	0.00	8.98	176.34	205.90	153.31

163	N.J.Sagar PSS	815.60	1032.63	88.15	186.15	184.49	338.82
164	N.J.Sagar LBC	60.00	42.07	0.00	0.00	12.80	53.30
165	Pochampad	36.00	12.87	0.00	75.29	35.69	31.70
166	Priyadarshni Jurala	234.00	224.65	30.42	211.99	217.40	165.00
167	Pulichinthala	120.00			13.00	6.60	17.30
168	Srisailam LB	900.00	1801.59	154.78	617.22	829.10	985.18
169	Panchet	80.00	129.26	68.97	133.51	141.94	79.79
170	Subernarekha I	65.00	33.73	51.24	30.13	190.38	101.19
171	Subernarekha II	65.00					
172	Balimela	510.00	1339.23	622.01	1001.38	1477.19	1732.21
173	Hirakud (Burla)	275.50	887.10	683.86	716.97	863.05	548.58
174	Hirakud (Chiplima)	72.00					
175	Rengali	250.00	742.46	599.46	553.56	762.61	837.89
176	Upper Indravati	600.00	2696.43	1760.44	1521.64	1745.57	2141.84
177	Upper Kolab	320.00	734.48	767.06	619.34	706.87	923.25
178	Machkund	114.75	519.79	477.47	700.31	467.70	593.68
179	Rangit	60.00	327.68	345.27	347.14	345.91	349.09
180	Teesta-V	510.00	2586.75	2710.17	2773.46	2818.78	2701.46
181	Teesta III	1200.00	0.00	0.00	309.42	4429.33	4258.40
182	Jorethang Loop	96.00	0.00	75.06	405.63	406.01	409.75
183	Tashiding	97.00			0.00	73.07	423.73
184	Chuzachen HEP	110.00	430.86	421.43	494.75	444.79	417.40
185	Dikchu	96.00				370.10	462.24
186	Teesta Low Dam-III	132.00	394.21	514.87	553.87	386.87	572.06
187	Teesta Low Dam-IV	160.00	0.00	18.76	602.53	495.15	708.45
188	Maithon	63.20	138.04	107.54	122.03	114.41	101.36
189	Jaldhaka I	36.00	109.42	173.37	205.46	145.18	197.04
190	Purulia PSS	900.00	1408.85	1064.56	1106.97	1014.37	1103.97
191	Rammam II	50.00	237.35	253.77	248.42	122.47	236.93
192	Ranganadi	405.00	1109.48	1280.25	1249.01	1416.74	1051.85
193	Pare	110.00				0.00	347.16
194	Kopili	200.00	629.46	781.80	1088.27	1172.83	1117.82
195	Khandong	50.00	87.86	175.05	197.10	260.77	203.82
196	Karbi Langpi	100.00	402.43	408.88	396.59	484.98	372.72
197	Doyang	75.00	165.15	163.14	258.94	274.39	231.47
198	Loktak (Manipur)	105.00	372.44	536.64	741.07	837.74	602.61
199	Kyrdemkulai	60.00	113.10	117.51	65.29	132.18	134.84
200	Myntdu	126.00	408.98	444.35	391.65	502.47	362.95
201	New Umtru	40.00				159.52	180.03
202	Umium St.I	36.00	90.46	114.08	96.65	128.65	85.11
203	Umium St.IV	60.00	162.75	184.99	166.01	217.44	166.60
204	Tuirial	60.00	0.00	0.00	0.00	78.37	168.44
	TOTAL		129243.68	121376.75	122377.56	126122.70	134893.61

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 3967 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2019.

HYDRO CAPACITY ADDITION FROM 2014-15 to 2018-19

Sl. No.	Name of Project/ I.C. (No.xMW)	State/ Agency	State	Unit No.	Capacity (MW)	Date of Commissioning	Remarks
Year 2014-15							
1	Parabati-III (4x130 MW)	Central/NHPC	H.P.	4	130	22.05.2014	Unit 1,2 & 3 commissioned in 2013-14
2	Rampur, (6x68.67 MW)	Central/SJVNL	H.P.	4	68.67	12.06.2014	Unit 1,2 & 5 commissioned in 2013-14
				3	68.67	31.07.2014	
				6	68.67	04.12.2014	
3	Kol Dam (4x200 MW)	Central/NTPC	H.P.	2	200	30.03.2015	Unit 3&4 commissioned in 2015-16
				1	200	31.03.2015	
Sub-total: (2014-15)					736		
Year 2015-16							
4	Kol Dam, (4x200 MW)	Central/NTPC	H.P.	3	200	10.04.2015	-
				4	200	12.06.2015	
5	Teesta Low dam-IV(4x40 MW)	State	West Bengal	1	40	14.02.2016	Units 3&4 commissioned in 2016-17
				2	40	15.03.2016	
6	Baglihar St.-II (3x150 MW)	State/ JKPDC	J&K	1	150	05.09.2015	-
				2	150	29.09.2015	
				3	150	26.10.2015	
7	Lower Jurala, (6x40MW)	State/ TSGENCO	Telangana	1	40	14.10.2015	Units 4&5 commissioned in 2016-17
				2	40	30.09.2015	
				3	40	04.01.2016	
				4	40	05.03.2016	
8	Shrinagar (4x82.5 MW)	State/ AHPCL	Uttarakhand	1	82.5	10.04.2015	-
				3	82.5	20.04.2015	
				4	82.5	03.06.2015	
				2	82.5	08.06.2015	
9	Jorethang Loop (2x48 MW)	Private/DANS Pvt. Ltd	Sikkim	1	48	22.09.2015	-
				2	48	23.09.2015	
Sub-total: (2015-16)					1516		
Year 2016-17							
10	Teesta Low dam-IV(4x40 MW)	State	West Bengal	3	40	03.07.2016	-
				4	40	11.08.2016	
11	Kashang-I (1x65 MW)	State HPPCL	HP	1	65	10.10.2016	-
12	Lower Jurala, (6x40 MW)	State/ TSGENCO	Telangana	5	40	20.08.2016	-
				6	40	29.09.2016	
13	NagarjunaSagar, (2x25 MW)	State/ APGENCO	Andhra Pradesh	1	25	05.01.2017	-
				2	25	28.01.2017	
14	Pulichintala, (4x30 MW)	TSGENCO	Telangana	1	30	25.09.2016	Units 2&3 commissioned in 2017-18 and unit 4 commissioned in 2018-19
15	Kashang-II & III (1x65 + 1x65 MW)	State/ HPPCL	HP	1	65	02.01.2017	-
				2	65	22.08.2016	
16	Teesta-III, (6x200 MW)	State/ Teesta Urja Ltd.	Sikkim	3	200	14.01.2017	-
				1	200	15.01.2017	
				5	200	24.01.2017	
				2	200	27.01.2017	
				6	200	28.01.2017	
				4	200	16.02.2017	
17	Chanju-I (3x12 MW)	Private/I. A. Energy	H.P.	1	12	17.02.2017	Unit 3 commissioned in 2017-18
				2	12	01.02.2017	
Sub-total: (2016-17)					1659		

Year 2017-18							
18	Turial (2x30 MW)	Central/ NEEPCO	Mizoram	1	30	25.08.2017	-
				2	30	28.11.2017	
19	Kishanganga (3x330 MW)	Central/ NHPC	J&K	1	110	13.03.2018	-
				2	110	21.03.2018	
				3	110	30.03.2018	
20	New Umtru, (2x20 MW)	State / MePGCL	Meghalaya	1	20	22.04.2017	-
				2	20	30.06.2017	
21	Sainj (2x50 MW)	State/ HPPCL	H.P.	1	50	04.09.2017	-
				2	50	04.09.2017	
22	Pulichintala (4x30 MW)	State/ TSGENCO	Telangana	2	30	26.10.2017	-
				3	30	01.11.2017	
23	Dikchu (2x48 MW)	Private/ Sneha Kinetic	Sikkim	1	48	11.04.2017	-
				2	48	12.04.2017	
24	Chanju-I (3x12MW)	Private/I.A. Energy	H.P.	3	12	26.07.2017	-
25	Tashiding (2x48.5 MW)	Private/ Shiga Energy	Sikkim	1	48.5	06.11.2017	-
				2	48.5	06.11.2017	
Sub-total: (2017-18)					795		
Year 2018-19							
26	Pare (2x55 MW)	Central/ NEEPCO	Arunachal Pradesh	1	55	28.05.2018	-
				2	55	21.05.2018	
27	Pulichintala (4x30 MW)	State / TSGENCO	Telangana	4	30	08.09.2018	-
Sub-total: (2018-19)					140		
Grand Total					4846 MW		

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 3967 TO BE ANSWERED IN THE LOK SABHA ON 12.12.2019.

**List of under construction Hydro projects (above 25 MW) – Sector wise
(As on 30.11.2019)**

Sl. No.	Name of Project / Installed Capacity	Unit No.	State/District Implementing Agency	River/Basin	Capacity (MW)	Likely Commissioning
	Central Sector					
1	Pakal Dul 4x250= 1000 MW	U-1 to U-4	Jammu & Kashmir /Kishtwar/ CVPPL (Joint Venture of NHPC, JKSPDC & PTC)	Marusadar/ Chenab / Indus	1000	2023-24 (Aug'23)
2	Parbati St. II 4x200= 800 MW	U-1 to U-4	Himachal Pradesh/Kullu/ NHPC	Parbati/Beas/Indus	800	2021-22 (Dec'21)
3	Subansiri Lower 8x250= 2000 MW	U-1 to U-8	Arunachal Pradesh/L. Subansiri, Dhemaji/ NHPC	Subansiri/ Brahmaputra	2000	2023-24
4	Teesta- VI 4x125= 500 MW	U-1 to U-4	Sikkim/South Sikkim/ Lanco / NHPC	Teesta/ Brahmaputra	500	2023-24
5	Tapovan Vishnugad 4x130=520 MW	U-1 to U-4	Uttarakhand /Chamoli/ NTPC	Dhauliganga / Alaknanada & /Ganga	520	2020-21 (Dec'20)
6	Rammam III 3x40=120 MW	U-1 to U-3	West Bengal/Darjeeling/ NTPC Ltd.	Rammam/ Rangit/Teesta Brahmaputra	120	2021-22 (Feb'22)
7	Lata Tapovan 3x57= 171 MW	U-1 to U-3	Uttarakhand/Chamoli/ NTPC	Dhauliganga /Alaknanada & Ganga	171	2023-24 *
8	Tehri PSS 4x250= 1000 MW	U-1 to U-4	Uttarakhand/Tehri Garhwal/ THDC	Bhilangna/Bhagirathi/ Ganga	1000	2021-23 (Jun'22)
9	Vishnugad Pipalkoti 4x111= 444 MW	U-1 to U-4	Uttarakhand/Chamoli/ THDC	Alaknanada/ Ganga	444	2022-23 (Dec'22)
10	Kameng 4x150= 600 MW	U-1 to U-4	Arunachal Pradesh/West Kameng/ NEEPCO	Bichom & Tenga / Kameng/Brahmaputra	600	2020 (Unit 1 & 2 – Jan'2020 and Unit-3&4-July'2020)
11	Naitwar Mori 2x30=60 MW	U-1 to U-2	Uttarakhand/Uttarkashi/ SJVNL	Tons/Yamuna/Ganga	60	2021-22 (Dec'21)
12	Ratle # 4x205+1x30= 850 MW	U-1 to U-5	NHPC/ Jammu and Kashmir State Power Development Corporation Ltd (JKSPDC)	Chenab/ Indus	850	2023-24 *
			Sub- total (Central):		8065	
	State Sector					
13	Parnai 3x12.5= 37.5 MW	U-1 to U-3	J&K/Poonch/ JKSPDC	Jhelum/ Indus	37.5	2021-22 (Mar'22)
14	Lower Kalnai 2x24= 48 MW	U-1 to U-2	J&K/Kishtwar/ JKSPDC	Chenab/ Indus	48	2022-23 *
15	Shahpurkandi 3x33+3x33+1x8= 206 MW	U-1 to U-7	Punjab/Gurdaspur/ Irr. Deptt. & PSPCL	Ravi/ Indus	206	2021-22 (Nov'21)
16	Uhl-III 3x33.33= 100 MW	U-1 to U-3	Himachal Pradesh/Mandi/ Beas Valley Power Corp. Ltd. (BVPC)	Uhl/Beas/ Indus	100	2019-20 (Mar'20)
17	Sawra Kuddu 3x37= 111 MW	U-1 to U-3	Himachal Pradesh/Shimla/ HPPCL	Pabbar/Tons/ Yamuna/Ganga	111	2019-20 (Mar'20)
18	Shongtong Karcham 3x150= 450 MW	U-1 to U-3	Himachal Pradesh/Kinnaur/ HPPCL	Satlu/ Indus	450	2023-25 (Apr'24)
19	Vyasi 2X60=120 MW	U- 1 & U- 2	Uttarakhand/Dehradun/ UJVNL	Yamuna/ Ganga	120	2020-21 (Dec'20)
20	Koyna Left Bank PSS 2x40= 80 MW	U-1 to U-2	Maharashtra/Satara/ WRD, Gov. of Mah.	Koyna/ Krishna/ EFR	80	2022-23 *
21	Polavaram 12x80= 960 MW	U-1 to U-12	Andhra Pradesh/East & West Godavari/ APGENCO/ Irr. Deptt., A.P.	Godavari/ EFR	960	2021-23 (Mar'23)

22	Pallivasal 2x30= 60 MW	U-1 to U-2	Kerala/Idukki/ KSEB	Mudirapuzha/ Periyar/Baypore Periyar/ WFR	60	2021-22 (Dec'21)
23	Thottiyar 1x30 + 1x10= 40 MW	U-1 to U-2	Kerala/Idukki/ KSEB	Thottiyar/ Periyar/ Baypore Periyar/ WFR	40	2020-21 (Dec'20)
24	Kundah Pumped Storage (Phase-I, Phase-II & Phase-III) 4x125= 500 MW	U-1to4	Tamil Nadu/Nilgiris/ TANGEDCO	Kundah/Bhavani/ Cauvery/ EFR	500	2022-23
			Sub- total (State):		2712.5	
	Private Sector					
25	Sorang 2x50= 100 MW	U-1 & U-2	Himachal Pradesh/Kinnaur/ Himachal Sorang Power	Sorang/Satluj/ Indus	100	2019-20 (Mar'20)
26	Tangnu Romai- I 2x22= 44 MW	U-1 to U-2	Himachal Pradesh/Shimla/ Tangu Romai Power Generation	Pabbar/Tons/Yamuna /Ganga	44	2021-22 *
27	Bajoli Holi 3x60= 180 MW	U-1 to U-3	Himachal Pradesh/Chamba/ GMR Bajoli Holi Hydro Power Pvt. Ltd.	Ravi/ Indus	180	2019-20 (Mar'20)
28	Tidong-I 2x50= 100 MW	U-1 to U-2	Himachal Pradesh/Kinnaur/ M/s Statkraft India Pvt. Ltd.	Tidong/Satluj/ Indus	100	2021-22 (Oct'21)
29	Phata Byung 2x38= 76 MW	U-1 to U-2	Uttarakhand/Rudraprayag M/s Lanco	Mandakini/Alaknanda Ganga	76	2021-22*
30	Singoli Bhatwari 3x33= 99 MW	U-1 to U-3	Uttarakhand/ Rudraprayag/ L&T Uttaranchal Hydro power Limited	Mandakini/Alaknanda Ganga	99	2019-20 (Mar'20)
31	Maheshwar ## 10x40= 400 MW	U-1 to U-10	Madhya Pradesh/Khargone & Khandwa/ SMHPCL	Narmada/ CIRS	400	2020-22 *
32	Rangit-IV 3x40= 120 MW	U-1 to U-3	Sikkim/West Sikkim/ Jal Power corp. Ltd.	Rangit/ Teesta/ Brahmaputra	120	2022-23 *
33	Bhasmey 2x25.5= 51 MW	U-1 to U-2	Sikkim/East Sikkim/ Gati Infrastructure	Rangpo/ Teesta/ Brahmaputra	51	2022-23 *
34	Rangit-II 2x33= 66 MW	U-1 to U-2	Sikkim/West Sikkim/ Sikkim Hydro Power Ltd.	Greater Rangit/ Teesta/ Brahmaputra	66	2021-22 *
35	Rongnichu 2x48= 96 MW	U-1 to U-2	Sikkim/East Sikkim/ Madhya Bharat Power Corporation Ltd.	Rongnichu/ Teesta/ Brahmaputra	96	2020-21 (Sept'20)
36	Panan 4x75= 300 MW	U-1 to U-4	Sikkim/North Sikkim/ Himgiri Hydro Energy Pvt. Ltd.	Rangyongchu/ Teesta/ Brahmaputra	300	2023-24 *
			Sub- total (Private):		1632	
	Total (C.S. +S.S.+P.S.)				12409.5	

* Subject to re-start of works

CIRS:-Central India River System ; EFR:-Eastern Flowing Rivers ; WFR:-Western Flowing Rivers.

Govt. of J&K, PDD have terminated PPA on 09.02.2017 and directed JKSPDC to take over the project. MoU between NHPC (51% share) & JKSPDC (49% share) signed for implementation of project in JV mode on 03.02.2019.

PFC as lead lender have acquired majority equity i.e. 51% in the SMHPCL w.e.f. 1st June, 2016. Matter Sub-judice.
