

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.5041  
TO BE ANSWERED ON 25.03.2021**

**INSTALLATION OF HYDROELECTRIC POWER PLANTS**

**5041. SHRI. RAMESH CHANDRA MAJHI:**

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

- (a) whether the Government proposes to install hydroelectric power plants in the States with the objective of reducing pollution;**
- (b) if so, the details thereof;**
- (c) the details of hydroelectric and thermal power plants installed in the State of Odisha during the last three years and the current year, district-wise; and**
- (d) the details of progress of such projects undertaken in Odisha along with the estimated time frame within which these are likely to be completed?**

**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) & (b) : Hydro Electric Projects (HEPs) are allotted to Central, State and Private Sector developers by the concerned State Government. Further, as per Section 8 of Electricity Act, 2003, any generating company intending to set-up a hydro generating station shall prepare and submit to Central Electricity Authority (CEA) for its concurrence, a scheme estimated to involve a capital expenditure exceeding such sum, as may be fixed by the Central Government, from time to time.**

**As per information provided by CEA, a total of 79 HEPs (above 25 MW) aggregating to an Installed Capacity of 32012 MW (Annexure) have been envisaged for being set up during the period 2020-21 to 2029-30, out of which 510 MW capacity has since been commissioned during 2020-21. It includes 29 HEPs with an aggregate Installed Capacity of 13459 MW for development in Central/Joint Sector.**

**Hydro power being Clean & Green source of energy, would help in reducing pollution apart from providing balancing power for smooth integration of renewables like Solar & Wind power which are intermittent & variable source of power.**

**(c) & (d) : As per information provided by CEA, no hydro-electric plant (above 25 MW) has been installed in the State of Odisha during the last three years and, at present, no hydro-electric plant is under construction in Odisha.**

However, 3 Units of Thermal Power Plants with an aggregate Installed Capacity of 2120 MW have been commissioned in Odisha during the last three years details of which are as under:

Sl. No.	Name of Project	Organisation	District	Unit No	Capacity (MW)	Date of Commissioning
1	IB VALLEY TPP	OPGC	Jharsuguda	3	660.00	02-07-19
2	IB VALLEY TPP	OPGC	Jharsuguda	4	660.00	17-08-19
3	DARLIPALI STPP St-I	NTPC	Sundargarh	1	800.00	30-12-19
<b>Total</b>					<b>2120.00</b>	

Further, 2 Units of Thermal Power Projects with an aggregate Installed Capacity of 1050 MW are under construction in the State of Odisha, the details of which are as under:

Sl. No.	Name of Project	Implementing Agency	District	Unit No.	Capacity (MW)	Commissioning Schedule
1	Darlipali STPP	NTPC Ltd.	Sundargarh	U-2	800	May'21
2	Rourkela TPP-II Expansion	NSPCL (JV of NTPC & SAIL)	Sundargarh	U-1	250	July'21
<b>Total</b>					<b>1050</b>	

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**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 5041 TO BE ANSWERED IN THE LOK SABHA ON 25.03.2021**

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Tentative Capacity Addition of Hydro Projects (above 25 MW) likely to be commissioned during 2020-21 to 2029-30								
Sl. No.	Year	Unit No.	State/ Implementing Agency	Installed Capacity likely to be commissioned (MW)	Total Installed Capacity (MW)	Likely Commissioning		Remarks
						Year	Month	
<b>2020-21</b>								
1	Kameng 4x150= 600 MW	U-1 to U-4	Arunachal Pradesh/ NEEPCO	300	600	2020-21	Mar'21	All four units of Kameng HEP commissioned as on Feb'21
2	SawraKuddu 3x37= 111 MW	U-1 to U-3	Himachal Pradesh/ HPPCL	111	111	2020-21	Dec'20	Commissioned in December 20
3	SingoliBhatwari 3x33= 99 MW	U-2 to U-3	Uttarakhand/ L&T Uttaranchal Hydro power Limited	99	99	2020-21	Nov'20	Commissioned in November 20
4	Rongnichu 2x48= 96 MW	U-1 to U-2	Sikkim/ Madhya Bharat Power Corporation Ltd.	96	96	2020-21	Mar'21	Under Construction
Sub -Total (2020-21)				606	906			
<b>2021-22</b>								
5	Bajoli Holi 3x60= 180 MW	U-1 to U-3	Himachal Pradesh/ GMR Bajoli Holi Hydro Power Pvt. Ltd.	180	180	2021-22	Dec'21	Under Construction
6	Sorang 2x50= 100 MW	U-1 & U-2	Himachal Pradesh/ Himachal Sorang Power	100	100	2021-22	Dec'21	Under Construction
7	Naitwar Mori 2x30=60 MW	U-1 to U-2	Uttarakhand/ SJVNL	60	60	2021-22	Dec'21	Under Construction
8	Parbati St. II 4x200= 800 MW	U-1 to U-4	Himachal Pradesh/ NHPC	800	800	2021-22	Mar'22	Under Construction
9	Thottiyar 1x30 + 1x10= 40 MW	U-1 to U-2	Kerala/ KSEB	40	40	2021-22	April'21	Under Construction
Sub -Total (2021-22)				1180	1180			
<b>2022-23</b>								
10	Tapovan Vishnugad \$ 4x130=520 MW	U-1 to U-4	Uttarakhand / NTPC	520	520	2022-23	-	Under Construction
11	Uhl-III 3x33.33= 100MW	U-1 to U-3	Himachal Pradesh/ Beas Valley Power Corp. Ltd. (BVPC)	100	100	2022-23	Dec'22	Under Construction
12	Vyasi 2x60=120 MW	U-1 to U-2	UJVNL/ Uttarakhand	120	120	2022-23	Apr'22	Under Construction
13	Parnai 3x12.5= 37.5 MW	U-1 to U-3	Jammu & Kashmir/ JKSPDC	37.5	37.5	2022-23	Mar'23	Under Construction
14	Pallivasal 2x30= 60 MW	U-1 to U-2	Kerala/ KSEB Ltd.	60	60	2022-23	Dec'22	Under Construction
15	Tehri PSS 4x250= 1000 MW	U-1 to U-4	Uttarakhand/ THDC	1000	1000	2022-23	Dec'22	Under Construction
16	Tidong-I 2x50= 100 MW	U-1 to U-2	Himachal Pradesh/ M/s Statkraft India Pvt. Ltd.	100	100	2022-23	Jun'22	Under Construction
17	Rammam - III 3x40=120 MW	U-1 to U-3	West Bengal/ NTPC Ltd.	120	120	2022-23	Nov'22	Under Construction
Sub -Total (2022-23)				2058	2058			

	<b>2023-24</b>							
18	Shahpurkan di 3x33+3x33+ 1x8= 206 MW	U-1 to U-7	Punjab/ Irr. Deptt. & PSPCL	206	206	2022-23	Dec'23	Under Construction
19	Vishnugad Pipalkoti 4x111= 444 MW	U-1 to U-4	Uttarakhand/ THDC	444	444	2023-24	Dec'23	Under Construction
20	Polavaram* 12x80= 960 MW	U-1 to U-6	Andhra Pradesh/ Polavaram Project Authority	480	960	2023-24 & 2024-25	-	Under Construction
21	Kundah Pumped Storage Phase-I 4x125=500 MW	U-1 to U-4	Tamil Nadu/ TANGEDCO	500	500	2023-24	April'23	Under Construction
22	Maheshwar 10x40= 400 MW	U-1 to U-10	Madhya Pradesh/ SMHPCL	400	400	2023-24	-	Under Construction
23	Pinnapuram	240X4+2x120	Andhra Pradesh/ Greenco Energy	1200	1200	2023-24	-	Under Examination
24	Teesta- VI 4x125= 500 MW	U-1 to U-4	Sikkim/ NHPC	500	500	2023-24	Mar'24	Under Construction
25	Subansiri Lower 8x250= 2000 MW	U-1 to U-8	Arunachal Pradesh/ NHPC	2000	2000	2023-24	Aug'23	Under Construction
	<b>Sub -Total (2023-24)</b>			<b>5730</b>	<b>6210</b>			
	<b>2024-25</b>							
26	TangnuRom ai- I 2x22= 44 MW	U-1 to U-2	Himachal Pradesh/ Tangu Romai Power Generation	44	44	2024-25	-	Under Construction
27	Bhasmey 3x17= 51 MW	U-1 to U-3	Sikkim/ Gati Infrastructure	51	51	2024-25	-	Under Construction
28	Rangit-II 2x33= 66 MW	U-1 to U-2	Sikkim/ Sikkim Hydro Power Ltd.	66	66	2024-25	-	Under Construction
29	ShongtongK archam 3x150= 450 MW	U-1 to U-2 & U-3	Himachal Pradesh/ HPPCL	450	450	2024-25	Mar'25	Under Construction
30	Kiru	4x156	J&K/ CVPPL	624	624	2024-25	Aug'24	Under Construction
31	Chanju-III	3 x 16	HPPCL	48	48	2024-25	Feb'25	Concurred
32	Deothal Chanju	3 x 10	HPPCL	30	30	2024-25	Feb'25	Concurred
33	New Ganderbal	3x31	J&K/ JKSPDC	93	93	2024-25	-	Concurred
34	Dhauasidh	2 x 33	SJVNL	66	66	2024-25	Sep'24	Concurred
35	Lower Kopilli	2x55+1x5+2 x2.5	Assam/ APGCL	120	120	2024-25	-	Concurred
36	PhataByung 2x38= 76 MW	U-1 to U-2	Uttarakhand/ M/s Lanco	76	76	2025-26	-	Under Construction
	<b>Sub -Total (2024-25) &amp; remaining 6 units of Polavaram HEP</b>			<b>2148</b>	<b>1668</b>			
	<b>2025-26</b>							
37	Kutehr	3x80	Himachal Pradesh/ JSWEPL	240	240	2025-26	Nov'25	Under Construction
38	Panan 4x75= 300 MW	U-1 to U-4	Sikkim/ Himgiri Hydro Energy Pvt. Ltd.	300	300	2025-26	-	Under Construction
39	Ratle 4x205+1x30 = 850 MW	U-1 to U-5	Jammu & Kashmir/ Ratle Hydro Electric Project Pvt. Ltd.	850	850	2025-26	-	Under Construction
40	Lata Tapovan 3x57= 171 MW	U-1 to U-3	Uttarakhand/ NTPC	171	171	2025-26	-	Under Construction

41	Pakal Dul 4x250= 1000 MW	U-1 to U-4	Jammu & Kashmir/ CVPP	1000	1000	2025-26	Jul'25	Under Construction
42	Koyna Left Bank PSS 2x40= 80 MW	U-1 to U-2	Maharashtra/ WRD, GO Mah.	80	80	2025-26	-	Under Construction
43	Lower Kalnai 2x24= 48 MW	U-1 & U-2	Jammu & Kashmir/ JKSPDC	48	48	2025-26	-	Under Construction
44	Rangit-IV 3x40= 120 MW	U-1 to U-3	Sikkim/ NHPC	120	120	2025-26	-	Under Construction
45	Kwar	4x135	J&K/ CVPP	540	540	2025-26	-	Investment approval underway
46	Loktak Down Stream	2x33	Manipur/ LDHCL	66	66	2025-26	-	Investment approval underway
47	TalongLonda	3x75	Arunachal Pradesh/ GMR	225	225	2025-26	-	Concurred
48	Mawphu Stage-II (WahUmiam Stage-III)	2x42.50	Meghalaya/ NEEPCO	85	85	2025-26	-	Under Examination
49	Luhri Stage-I	2X80+ 2X25	Himachal Pradesh/ SJVNL	210	210	2025-26	Feb'26	Under Construction
Sub Total (2025-26)				3935	5679			
2026-27								
50	Turga PSP	4x250	West Bengal/ WBSEDCL	1000	1000	2026-27	-	Concurred
51	Nafra	2x60	Arunachal Pradesh/SEW	120	120	2026-27	-	Concurred
52	Heo	3x80	Arunachal Pradesh/ Velcan Energy Ltd.	240	240	2026-27	-	Concurred
53	Dibbin	2x60	Arunachal Pradesh/ KSK Energy Ventures Ltd.	120	120	2026-27	-	Concurred
54	Tato-I	3x62	Arunachal Pradesh/ Velcan Energy Ltd.	186	186	2026-27	-	Concurred
55	Dikhu	3X62	Nagaland/ NMPPL	186	186	2026-27	-	Concurred
56	Teesta St-IV	4x130	Sikkim/ NHPC	520	520	2026-27	-	Concurred
57	Sharavathy PSP	8 x 250	Karnataka/KPCL	2000	2000	2026-27		Under S&I
58	Upper Indravati	4 x 150	Odisha/OHPCL	600	600	2026-27		Under S&I
Sub Total (2026-27)				4972	4972		-	
2027-28								
59	Devsari	3X84	Uttarakhand/SJVN	162	162	2027-28	-	Under S&I
60	Kirthai-I	4X95+1X10	J&K/ JKSPDC	390	390	2027-28	-	Under Examination
61	Goriganga-IIIA	3X50	Uttarakhand/NHPC	150	150	2027-28	-	Under Examination
62	Kodayar PSP	4 x 125	Tamil Nadu/TANGEDCO	500	500	2027-28		Under S&I
63	Balimela PSP	2 x 250	Odisha/OHPCL	500	500	2027-28		Under S&I
64	Kynshi-I	2x135	Meghalaya/ AKPPL	270	270	2027-28	-	Concurred
65	Kirthai-II	6x140+2x 35+2x10	J&K/ CVPP	930	930	2027-28	-	Concurred
66	Thana Plaun	3x50.33+2 x20	Himachal Pradesh/HPPCL	191	191	2027-28	-	Under Examination
67	Athirapally	2x80+ 2x1.5	Kerala/ KSEB	163	163	2027-28	-	Concurred
68	Kotlibhel St.-IA	3x65	Uttarakhand/ NHPC	195	195	2027-28	-	Concurred
Sub Total (2027-28)				3451	3451		-	
2028-29								
69	Demwe Lower	5x342+ 1x40	Arunachal Pradesh/ADPL	1750	1750	2028-29	-	Concurred
70	Attunli	4x170	Arunachal Pradesh/AHEPCL	680	680	2028-29	-	Concurred
71	Tawang-II	4x200	Arunachal Pradesh/NHPC	800	800	2028-29	-	Concurred
72	Bowala Nand Prayag	4x75	Uttarakhand/UJVNL	300	300	2028-29	-	Under Examination
73	Sillahalla PSP	4 x 250	Tamil Nadu/TANGEDCO	1000	1000	2028-29		Under S&I
74	Upper Kolab	2 x 160	Odisha/OHPCL	320	320	2028-29		Under S&I
Sub Total (2028-29)				4850	4850			
2029-30								
75	Tawang-I	3x200	Arunachal Pradesh/ NHPC	600	600	2029-30	-	Concurred
76	Sawalkot	6x225+1x56 +2x225	J&K/ JKSPDC	1856	1856	2029-30	-	Concurred
77	Jhakolsankhri	2 x 22	SJVNL	44	44	2029-30	-	Concurred
78	Sunni dam	5x73+1x17	SJVNL	382	382	2029-30	-	Concurred
79	Bokang Bailing	3 x 66.67	THDC	200	200	2029-30	-	Under S&I
Sub Total (2029-30)				3082	3082			
Total				32012				
* Capacity addition & Energy Benefits of Polavaram HEP are distributed between two years i.e. 2024-25 & 2025-26.								
\$ Due to flash flood in Dhauli Ganga River on 07 Feb 2021, construction work is held up and the new commissioning scheduled will be worked out subsequently.								

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