

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.1666
TO BE ANSWERED ON 11.02.2021**

HYDROPOWER POTENTIAL IN NE REGION

1666. SHRI SISIR KUMAR ADHIKARI:

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

- (a) whether the North East region of the country has a potential of 60 thousand megawatt of hydro electric power production and if so, the details thereof;**
- (b) whether 2.4% of the generation target has been achieved so far and if so, the details thereof;**
- (c) the action plan of the Government to achieve full potentiality thereof; and**
- (d) the status and new proposal of hydro and other power projects for North East region?**

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) : Yes, Sir. The assessed Hydro-electric power potential from major/medium schemes (i.e. schemes having capacity above 25 MW) in North-Eastern region including Sikkim is 62604 MW. No generation target in terms of Installed Capacity has been fixed by the Government of India, however, as on date 6.46% (4046 MW) of the existing potential in North East Region including Sikkim, has been harnessed. The State-wise details of potential and its status of development in North-Eastern region including Sikkim is enclosed at Annexure-I.

(c) : Government have taken several policy initiatives in the past to give a boost the hydropower development in the country viz., National Electricity Policy 2005, Hydro Power Policy 2008, Tariff Policy 2016, National Rehabilitation & Resettlement Policy (2007) and Rehabilitation and Resettlement Act 2013. Further, Government of India in March, 2019 has approved the following measures for promoting hydropower in the country and improving viability of the sector:

- i. Declaring Large Hydro Power (LHPs) (> 25 MW projects) as Renewable Energy source.**
- ii. Hydro Purchase Obligation (HPO) as a separate entity within Non-Solar Renewable Purchase Obligation (RPO).**

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- iii. **Tariff rationalization measures for bringing down hydro power tariff in the initial years.**
- iv. **Budgetary Support for Flood Moderation/Storage Hydro Electric Projects (HEPs).**
- v. **Budgetary Support towards Cost of Enabling Infrastructure, i.e. roads/bridges.**
 - a) **Rs. 1.5 crore per MW for projects upto 200 MW.**
 - b) **Rs. 1.0 crore per MW for projects above 200 MW.**

These measures would be particularly beneficial for development of hydro projects in North Eastern Region which are located in remote and far-flung areas and require development of extensive associated infrastructure such as roads, bridges etc. for transportation of heavy, large sized equipment & machinery to the project site. The HPO trajectory, in this regard, has already been notified by the Government on 29.01.2021.

(d) : Hydro Power Projects:-

At present, 8 nos. of Hydro Electric Projects (HEPs) (above 25 MW) totaling to 3733 MW are under construction in the North Eastern Region (including Sikkim). Out of these 8 nos. of HEPs, in 4 nos. of projects totaling 3196 MW works are ongoing and in 4 nos. of HEPs totaling 537 MW the works are held up due to various reasons. The status of the aforementioned 8 projects is at Annexure-II.

Thermal Power Projects:-

The status of ongoing/proposed Thermal Power Projects in the North Eastern States is as per Annexure-III.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1666
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STATUS OF HYDRO ELECTRIC POTENTIAL DEVELOPMENT (In terms of Installed capacity - Above 25 MW)						
As on 31/01/2021						
Region/ State	Identified Capacity as per reassessment study		Capacity In Operation		Capacity Under Construction	
	Total	Above 25 MW	(MW)	%	(MW)	(%)
	(MW)	(MW)				
EASTERN						
Sikkim	4286	4248	2169	51.06	1133	26.67
Sub Total (Sikkim)	4286	4248	2169	51.06	1133	26.67
NORTH EASTERN						
Meghalaya	2394	2298	322	14.01	0	0.00
Tripura	15	0	0	0.00	0	0.00
Manipur	1784	1761	105	5.96	0	0.00
Assam	680	650	350	53.85	0	0.00
Nagaland	1574	1452	75	5.17	0	0.00
Arunachal Pradesh	50328	50064	965	1.93	2150	4.29
Mizoram	2196	2131	60	2.82	0	0.00
Sub Total (NER)	58971	58356	1877	3.22	2150	3.68
TOTAL (NER + SIKKIM)	63257	62604	4046	6.46	3283	5.24
Note:- 1. Does not include pumped storage Projects						
2. In some states the total of the capacity developed and balance capacity is different from the potential assessed . This is due to change in capacity of the Projects, addition/ deletion of the Projects and merger of two Projects into one etc.						

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1666 TO BE ANSWERED IN THE LOK SABHA ON 11.02.2021

List of Hydro projects (above 25 MW) under active construction						
(As on 31.01.2021)						
Sl. No.	Name of Project / Installed Capacity	Unit No.	State/District Implementing Agency	River/Basin	Capacity (MW)	Likely Commissioning
Central Sector						
1	Subansiri Lower 8x250= 2000 MW	U-1 to U-8	Arunachal Pradesh/L. Subansiri /NHPC	Subansiri/ Brahmaputra	2000	2023-24 (Aug'23)
2	Teesta- VI 4x125= 500 MW	U-1 to U-4	Sikkim/South Sikkim/NHPC	Teesta/ Brahmaputra	500	2023-24 (Mar'24)
3	Kameng 4x150= 600 MW (3 units taken in operation)	U-4	Arunachal Pradesh/West Kameng/NEEPCO	Bichom & Tenga/ Kameng/ Brahmaputra	600	2020-21 (Mar'21)
Sub- total (Central):					3100	
Private Sector						
4	Rongnichu 2x48= 96 MW	U-1 to U-2	Sikkim/East Sikkim/Madhya Bharat Power Corporation Ltd.	Rongnichu/ Teesta/ Brahmaputra	96	2020-21 (Mar'21)
Sub- total (Private):					96	
Total (C.S.+ P.S.)					3196	

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

List of Hydro projects (above 25 MW) for which construction is held up						
Sl. No.	Name of Project / Installed Capacity	Unit No.	State/District Implementing Agency	Capacity (MW)	Likely Commissioning*	Reason /Present status
Central Sector						
1	Rangit-IV 3x40= 120 MW	U-1 to U-3	Sikkim/West Sikkim/NHPC	120	2025-26	Project is stalled since October, 2013 due to funds constraints with the developer. The project is under NCLT process since 9th April, 2019. NHPC submitted EOI on 08.07.2019 and was shortlisted under final list of Prospective Resolution Applicants on dated 23.08.2019. The Resolution Plan submitted by NHPC on 04.12.2019. The Resolution Plan Approval Application was listed for hearing on 17.02.2020 before NCLT, Hyderabad ("Tribunal"). Final hearing was held on 31.07.2020. The project has been awarded to NHPC.
Sub-Total(Central)				120		
Private Sector						
2	Panan 4x75= 300 MW	U-1 to U-4	Sikkim/North Sikkim/Himgiri Hydro Energy Pvt. Ltd.	300	2025-26	Issue of construction of bridge on Mantham Lake for accessibility of site is under discussion with the State Govt of Sikkim.

3	Rangit-II 2x33= 66 MW	U-1 to U-2	Sikkim/West Sikkim/Sikkim Hydro Power Ltd.	66	2024-25	Works are stalled since December, 2017 due to funds constraints with developer. Project is in NCLT since 30.07.2020.
4	Bhasmey 2x25.5= 51 MW	U-1 to U-2	Sikkim/East Sikkim/Gati Infrastructure	51	2024-25	Works are stalled since Sept., 2016 due to funds constraints with developer
	Sub-Total (Private)			417		
	Total			537		
* Subject to re-start of works						

ANNEXURE-III

**ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1666
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Status of ongoing/proposed Thermal Power Projects in North Eastern States

Sl. No.	Name of Project	Name of Organization	Capacity	Status
1	2x800 MW Margherita Thermal Power Project, District: Tinsukia, Assam	Assam Power Generation Corporation Limited.	1600 MW	DPR is prepared and 661acr land is acquired by APGCL while 100acr is yet to be acquired. Coal linkage is yet to be granted.
2	500 MW Garo Hills Thermal Power Project, District: Garo Hills, Meghalaya	North Eastern Electric Power Corporation Ltd.	500 MW	Long term coal linkage could not be established for which no headway could be made in respect of the project.
