

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1119
ANSWERED ON 12.12.2023

HYDRO POWER GENERATION IN KARNATAKA

1119 SHRI NARAYANA KORAGAPPA:

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

- (a) whether it is a fact that Karnataka has nearly 6,500 MW of hydro power potential in the state;
- (b) if so, the details thereof;
- (c) the details of power generated so far from hydro power plants of Karnataka and the efforts being made to exploit and generate maximum hydro power from Karnataka;
- (d) whether it is a fact that the existing potential was assessed between 1978-87; and
- (e) if so, whether the Ministry will consider reassessing the hydro power potential in the State of Karnataka?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : As per the reassessment study carried out by Central Electricity Authority in 2017-23, the potential of large hydro power projects (capacity more than 25 MW) in Karnataka has been identified as 4414 MW. Details are attached at **Annexure-I**.

(c) : At present, 16 large hydro power projects with an aggregate installed capacity of 3689 MW are in operation in Karnataka. The details of power generated from these projects during past five years and current year (April, 2023 to November, 2023) are given at **Annexure-II**.

The Government of India has taken a number of policy measures to exploit the hydro power potential of the country, including in the State of Karnataka, and increase hydro power generation. Some of the measures taken are:

- i. Declaration of large hydro power projects (greater than 25 MW) as renewable energy source
- ii. Notification of hydro purchase obligation
- iii. Waiver of Inter State Transmission System charges for Hydro Power Projects and Pumped Storage projects

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- iv. Tariff rationalization measures for bringing down the tariff during the initial years
- v. Budgetary support for flood moderation component of hydro power projects
- vi. Budgetary support for construction of enabling infrastructure, i.e. roads/bridges
- vii. Empanelment of Independent Engineer and Conciliation Committee of Independent Experts for resolution of contractual disputes in hydro power projects
- viii. Issuance of guidelines on 10.04.2023 for promotion of Pumped Storage Projects

(d) & (e) : The hydro power potential in the country was earlier assessed in 1978-87. Subsequently, the latest assessment of hydro power potential of the country has been carried out by the Central Electricity Authority in the year 2017-2023.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1119 ANSWERED IN THE RAJYA SABHA ON 12.12.2023

Details of Exploitable Large Hydro Power Projects in Karnataka as per 2017-2023 Reassessment Study				
Sl. No.	Name of Project	River	Type*	Installed Capacity (MW)
1	Almatti	Krishna	S	290
2	Ghatprabha	Ghataprabha	S	32
3	Bhadra (Bhadra Dam PH)	Bhadra	S	39
4	Munirabad	Tungbhadra	S	38
5	Hampi	Tungbhadra	S	36
6	T B Dam (Tungabhadra RBC)	Tungbhadra	S	36
7	Shivasamudram	Cauvery	R (P)	42
8	Kalinadi Supa	Kali	S	100
9	Kalinadi (Nagjhari)	Kali	S	855
10	Kodasalli (Kalinadi I (Kadassali))	Kali	S	120
11	Kadra Kalinadi I(Kadra)	Kali	S	150
12	Gangavali St.II (Gangavali (Sonda) St.II)	Gangavali	R	600
13	Linganamakki	Sharavathy	S	55
14	Mahatma Gandhi Jog	Sharavathy	S	139
15	Sharavathy (Sharavathi)	Sharavathy	S	1035
16	Gerusoppa (Sharavathy Tail Race)	Sharavathy	R (P)	240
17	Varahi	Varahi	R (P)	460
18	Netravathy	Netravathy	S	41
19	Sirpadi	Netravathy	R	36
20	Kumaradhari	Kumaradhari	S	70
	TOTAL			4414

*S-Storage, R- Run of River, R(P)- Run of River with Pondage

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1119
ANSWERED IN THE RAJYA SABHA ON 12.12.2023

STATION-WISE GENERATION IN MILLION UNITS (MU) FROM HYDRO POWER PROJECTS IN KARNATAKA								
Sl. No.	UTILITY/ STATION	INSTALLED CAPACITY AS ON 30.11.2023 (MW)	2018-19 (MU)	2019-20 (MU)	2020-2021 (MU)	2021-2022 (MU)	2022-23 (MU)	2023-24 (MU) (April 2023 to November, 2023)
1	Almatti Dam	290	408.4	632.5	643.7	499.6	626.6	227.9
2	Bhadra	26	55.2	74.7	56.7	72.3	104.7	20.7
3	Gerusoppa	240	525.7	575.3	480.6	543.3	566.1	265.3
4	Ghatprabha	32	80.7	50.6	110.1	95.0	87.2	26.1
5	Jog	139.2	194.4	298.2	373.8	554.3	551.0	255.6
6	Kadra	150	375.9	475.5	410.3	402.1	355.7	237.3
7	Kalinadi	900	2777.9	3666.1	3147.2	3687.0	2843.5	1948.0
8	Supa DPH	100	596.2	584.2	443.5	609.8	377.0	303.7
9	Kodasali	120	345.6	473.6	383.0	425.6	345.3	227.0
10	Lingnamakki	55	252.5	298.6	255.5	277.9	254.2	107.5
11	Munirabad	28	89.4	79.7	102.1	132.1	114.9	29.2
12	Sharavathy	1035	4786.2	5136.5	4582.7	4994.3	5220.8	2463.4
13	Shivasamudram	42	284.2	260.0	321.1	301.0	285.9	125.9
14	Varahi	460	1243.8	1183.6	1093.1	1137.3	1231.1	499.1
15	T. B. Dam	36	171.8	225.1	183.8	205.0	193.3	82.1
16	Hampi	36						
	Total Karnataka	3689.2	12187.7	14014.3	12587.4	13936.5	13157.3	6818.8
