

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
**LOK SABHA**  
**STARRED QUESTION NO. \*59**  
TO BE ANSWERED ON 06.02.2019

**NUCLEAR POWER REACTORS**

\*59. SHRI GEORGE BAKER:  
SHRI PARBHUBHAI NAGARBHAI VASAVA:

Will the PRIME MINISTER be pleased to state:

- (a) the details of the number of nuclear power reactors operational across the country, State/UT-wise along with the details of their total installed capacity;
- (b) the details of the number of nuclear power reactors under construction across the country, State/UT-wise including West Bengal and Gujarat along with the details of their total installed capacity;
- (c) the details of the funds sanctioned, allocated and utilised for these under construction nuclear power reactors across the country, State/UT-wise along with the details of the targets set and achievements made thereunder so far;
- (d) whether the Government has recently accorded administrative approval and financial sanction to some of the States including West Bengal and Maharashtra to establish nuclear reactors in their States; and
- (e) if so, the details thereof, State/UT-wise and the reasons therefor along with the funds sanctioned for this purpose?

**ANSWER**

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (DR.JITENDRA SINGH):

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(a)to(e) A statement is placed on the Table of the House.

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Government of India  
Department of Atomic Energy

STATEMENT REFERRED TO IN REPLY TO LOK SABHA STARRED QUESTION NO. \*59 DUE FOR ANSWER ON 06.02.2019 BY SHRI GEORGE BAKER AND SHRI PARBHUBHAI NAGARBHAI VASAVA REGARDING NUCLEAR POWER REACTORS.

(a) The details are given as Annexure-1.

(b)&(c) The details of nuclear power projects under construction by Nuclear Power Corporation of India Limited (NPCIL) are given as Annexure-2.

The details of nuclear power project under construction by Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI) are as under:

PFBR	Sanctioned (Rs.in crore)	Allocated (Rs. in crore)	Utilized (Rs.in crore)
Gol - Equity	4314.52	4314.52	4314.52
Gol Loan	1000.00	1000.00	1000.00

Prototype Fast Breeder Reactor (PFBR) is in advance stage of integrated commissioning and it is expected to approach first criticality by the year 2020.

(d)&(e) The Government has accorded administrative approval and financial sanction of 12 nuclear power plants totaling to a capacity of 9000 MW in June-2017. The details are given below:

Project	State & Location	Capacity (MW)	Approved Cost (Rs. crore)
<b>Indigenous PHWRs to be set up in Fleet Mode</b>			
Chutka-1&2	Chutka, Madhya Pradesh	2X700	1,05,000
Kaiga-5&6	Kaiga, Karnataka	2X700	
Mahi Banswara- 1 & 2	Mahi Banswara, Rajasthan	2X700	
GHAVP- 3 & 4	Gorakhpur, Haryana	2X700	
Mahi Banswara- 3&4	Mahi Banswara, Rajasthan	2X700	
<b>Reactors to be set up with foreign cooperation</b>			
KKNPP- 5&6	Kudankulam, Tamil Nadu	2X1000	49,621

The Government has accorded 'In-Principle' approval of the sites, namely Haripur in East Midnapur district of West Bengal and Jaitapur in Ratnagiri district of Maharashtra among others, to locate Nuclear Power Projects. Presently, there is no proposal for administrative approval and financial sanction for these projects.

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## Annexure-1

State	Location	Unit	Capacity (MW)
Maharashtra	Tarapur	TAPS-1	160
		TAPS-2	160
		TAPS-3	540
		TAPS-4	540
Rajasthan	Rawatbhata	RAPS-1 <sup>®</sup>	100
		RAPS-2	200
		RAPS-3	220
		RAPS-4	220
		RAPS-5	220
		RAPS-6	220
Tamilnadu	Kalpakkam	MAPS-1	220
		MAPS-2	220
	Kudankulam	KKNPP-1	1000
		KKNPP-2	1000
Uttar Pradesh	Narora	NAPS-1	220
		NAPS-2	220
Gujarat	Kakrapar	KAPS-1 <sup>§</sup>	220
		KAPS-2	220
Karnataka	Kaiga	KGS-1	220
		KGS-2	220
		KGS-3	220
		KGS-4	220

<sup>®</sup> RAPS-1 is under extended shutdown for techno-economic assessment

<sup>§</sup> KAPS-1 is under shutdown for Renovation & Modernization activities.

**Annexure-2**

State	Location	Project	Capacity (MW)	Physical Progress as on Dec-2018 (%)	Schedule Completion as per original Sanction	Expected Completion	Sanctioned Completion Cost (Rs. crore)	Expenditure as on Dec-2018 (Rs. crore)
Gujarat	Kakrapar	KAPP 3&4	2x700	87.3	2016	2019/2020	11459*	12848
Rajasthan	Rawatbhata	RAPP 7&8	2X700	73.8	2017	2020	12320	10138
Tamil Nadu	Kudankulam	KKNPP 3&4	2X1000	23.8	2020	2023	39849	11815
Haryana	Gorakhpur	GHAVP 1&2	2x700	<i>Excavation in progress at advance stage.</i>	2021	2025	20594	1547

\* Under revision