

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 4100**  
TO BE ANSWERED ON 17.07.2019

**NUCLEAR POWER**

4100. SHRI KAPIL MORESHWAR PATIL:

Will the PRIME MINISTER be pleased to state:

- (a) the details of nuclear power generation capacity enhanced during the last three years and the current year;
- (b) the targets fixed for power generation during the current year along with the progress made in this regard;
- (c) the details of funds utilised in the maintenance and upgradation of the nuclear power plants during the last three years and the current year along with the per unit cost of power generation;
- (d) whether the Government proposes to enhance the power generation capacity of the existing plants and set up new plants to enhance power generation capacity to the increasing energy demand of the energy; and
- (e) if so, the details thereof?

**ANSWER**

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

- (a) During the last three years, a nuclear power capacity of 1000 MW has been added by the start of commercial operation of the Kudankulam Unit-2 (KKNPP-2) in March-2017.
- (b) The generation target set for the current year 2019-20 is 39600 Million Units (MU). The generation in the current year (during the period April – June 2019) is 11122 MUs.
- (c) The details of capital expenditure incurred in operating stations for upgradation and maintenance and average tariff of Nuclear Power Corporation of India Limited (NPCIL) during the last three years and the current year are as follows:

<b>Year</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20, upto June 2019 (Provisional)</b>
Capital Expenditure (Rs. crore)	93.78	230.67	741.03	67.14
Average Tariff of Nuclear Power (Rs. per Unit)	2.95	3.55	3.40	3.41

(d)&(e) Yes, Sir. A capacity expansion is planned by setting up nuclear power reactors at existing sites where there is potential and at new green field sites. The details are as follows:

**Projects Under Construction**

A capacity of 6700 MW comprising of nine (09) nuclear power reactors (including Prototype Fast Breeder Reactor (PFBR), 500 MW being implemented by BHAVINI) is at various stages of commissioning / construction. The details are as follows:

Project	Location & State	Capacity (MW)
KAPP-3&4	Kakrapar, Gujarat	2 x 700
RAPP-7&8	Rawatbhata, Rajasthan	2 X 700
KKNPP- 3&4	Kudankulam, Tamil Nadu	2 X 1000
GHAVP-1&2	Gorakhpur, Haryana	2 X 700
PFBR	Kalpakkam, Tamil Nadu	1 X 500*

*\* being implemented by BHAVINI*

On the progressive completion of the above stated projects, the installed nuclear capacity would reach 13480 MW by the year 2024-2025.

**Projects Accorded Administrative Approval & Financial Sanction and Under Pre-Project Activities**

The Government has also accorded administrative approval and financial sanction for the following twelve (12) more reactors with a total capacity of 9000 MW in June-2017, which are scheduled to be completed progressively by the year 2031. The details are given below:

Project	Location & State	Capacity(MW)
Chutka-1&2	Chutka, Madhya Pradesh	2 X 700
Kaiga-5&6	Kaiga, Karnataka	2 X 700
Mahi Banswara- 1&2	Mahi Banswara, Rajasthan	2 X 700
GHAVP– 3&4	Gorakhpur, Haryana	2 X 700
Mahi Banswara- 3&4	Mahi Banswara, Rajasthan	2 X 700
KKNPP– 5&6	Kudankulam, Tamil Nadu	2 X 1000

Together with the capacity being implemented by BHAVINI, the total nuclear power capacity would reach 22480 MW by the year 2031.

**'In-Principle' approved sites for locating future Nuclear Power Plants**

Further to this, the Government has accorded 'In-Principle' approval for the following sites for setting up nuclear power projects in future:

<b>Site</b>	<b>Location &amp; State</b>	<b>Capacity (MW)</b>
Bhimpur, Units- 1 to 4	Bhimpur, Madhya Pradesh	4 X 700
Jaitapur, Units- 1 to 6	Jaitapur, Maharashtra	6 x 1650
Kovvada, Units- 1 to 6	Kovvada, Andhra Pradesh	6 x 1208
Chhaya Mithi Viridi, Units-1to 6	Chhaya Mithi Viridi, Gujarat	6 x 1000*
Haripur, Units – 1 to 6	Haripur, West Bengal	6 x 1000*

*\*Nominal Capacity*

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