

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO.3618
TO BE ANSWERED ON 08.08.2018

NUCLEAR POWER GENERATION

3618. DR. MANOJ RAJORIA:

Will the PRIME MINISTER be pleased to state:

- (a) the current nuclear power energy generated in the country, State/UT-wise;
- (b) the nuclear power capacity added to the total energy mixture during each of the last three years;
- (c) the per unit cost of atomic power energy in the country; and
- (d) whether the Government proposes to increase the said capacity and ensure the availability of raw material for the said capacity addition and if so, the details thereof?

ANSWER

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

- (a) The details of current nuclear power capacity State/UT wise are as follows:

| State | Location | Unit | Capacity (MW) |
|---------------|------------|----------------------|---------------|
| Maharashtra | Tarapur | TAPS-1 | 160 |
| | | TAPS-2 | 160 |
| | | TAPS-3 | 540 |
| | | TAPS-4 | 540 |
| Rajasthan | Rawatbhata | RAPS-1 [@] | 100 |
| | | RAPS-2 | 200 |
| | | RAPS-3 | 220 |
| | | RAPS-4 | 220 |
| | | RAPS-5 | 220 |
| | | RAPS-6 | 220 |
| Tamil Nadu | 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 ^{\$} | 220 |
| | | KAPS-2 ^{\$} | 220 |
| Karnataka | Kaiga | KGS-1 | 220 |
| | | KGS-2 | 220 |
| | | KGS-3 | 220 |
| | | KGS-4 | 220 |

[@] RAPS-1 is under extended shutdown for techno-economic assessment

^{\$} KAPS 1&2 are under shutdown for Renovation & Modernization activities.

- (b) The nuclear power capacity added during each of the last three years is as follows:

| Year | 2015-16 | 2016-17 | 2017-18 |
|---------------------|---------|---------|---------|
| Capacity Added (MW) | - | 1000 | - |

- (c) The average tariff of nuclear power in the year 2017-18 was Rs. 3.55 per unit, tariff rate ranging from Rs.2.06 per unit (in case of the oldest station, TAPS-1&2) to Rs. 4.10 per unit (in respect of the latest station, KKNPP-1&2).

- (d) Yes, Sir. At present, there are nine (9) nuclear power reactors with a total capacity of 6700 MW (including 500 MW Prototype Fast Breeder Reactor [PFBR], being implemented by BHAVINI), at various stages of construction in the country. On progressive completion of these, the installed capacity will reach to 13480 MW by 2024-25. In addition, twelve (12) nuclear power reactors with an aggregate capacity of 9000 MW have been accorded administrative approval and financial sanction by the Government in June 2017. On progressive completion of these, the nuclear power capacity in the country will reach 22480 MW by the year 2031. The Government has taken measures to ensure fuel linkages from both domestic and imported sources.
