# GOVERNMENT OF INDIA
# ATOMIC ENERGY
# LOK SABHA

UNSTARRED QUESTION NO:430
ANSWERED ON:25.02.2015
NUCLEAR POWER GENERATION
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**Will the Minister of ATOMIC ENERGY be pleased to state:**

(a) the details of operational and under construction nuclear power plants in the country along with the time by which under-construction plants are likely to generate energy;

(b) whether the operational plants are not generating energy as per their installed capacity;

(c) if so, the details thereof and the reasons therefor; and

(d) the share of present nuclear power generation in total power production in the country?

## Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (Dr. JITENDRA SINGH) :
(a) There are 21 nuclear power reactors in the country with a total installed capacity of 5780 MW. Of these, one reactor, Rajasthan Atomic Power Station Unit 1 (RAPS − 1) (100 MW) at Rawatbhata, Rajasthan is currently under extended shutdown for techno-economic assessment for continued operation The details of the reactors under operation in the country are as tabulated below:

| Unit-Location | Present Capacity (MWe) |
|---|---|
| TAPS-1 Tarapur, Maharashtra | 160 |
| TAPS-2 Tarapur, Maharashtra | 160 |
| RAPS-1 Rawatbhata, Rajasthan | 100 |
| RAPS-2 Rawatbhata, Rajasthan | 200 |
| MAPS-1 Kalpakkam, Tamil Nadu | 220 |
| MAPS-2 Kalpakkam, Tamil Nadu | 220 |
| NAPS-1 Narora, Uttar Pradesh | 220 |
| NAPS-2 Narora, Uttar Pradesh | 220 |
| KAPS-1 Kakrapar, Gujarat | 220 |
| KAPS-2 Kakrapar, Gujarat | 220 |
| KAIGA-2, Kaiga, Karnataka | 220 |
| RAPS-3 Rawatbhata, Rajasthan | 220 |
| KAIGA-1Kaiga, Karnataka | 220 |
| RAPS-4 Rawatbhata, Rajasthan | 220 |
| TAPS-4 Tarapur, Maharashtra | 540 |
| TAPS-3 Tarapur, Maharashtra | 540 |
| KAIGA -3 Kaiga, Karnataka | 220 |
| KAIGA -4 Kaiga, Karnataka | 220 |
| RAPS-5 Rawatbhata, Rajasthan | 220 |
| RAPS-6 Rawatbhata, Rajasthan | 220 |
| Kudankulam Unit − 1 | 1000 |

# RAPS-1 is presently under extended shutdown

In addition to the above, Kudankulam Unit − 2 is presently under commissioning. The unit is expected to be commissioned in 2015-16.

There are five reactors which are presently under various stages of construction with a total capacity of 3300 MW. The details of these reactors are as tabulated below:

| Project Location | Capacity (MW) | Anticipated Completion Dates |
|---|---|---|

| | | | |
|---|---|---|---|
| Kakrapar Atomic Power Project Units 3&4 (KAPP 3&4) | Kakrapar, Gujarat | 2 X 700 | KAPP – 3 : Feb 2017<br>KAPP – 4 : Oct 2017 |
| Rajasthan Atomic Power Project Units 7&8 (RAPP 7&8) | Rawatbhata, Rajasthan | 2 X 700 | RAPP – 7 : Nov 2017<br>RAPP – 8 : May 2018 |
| Prototype Fast Breeder Reactor implemented by Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI) | Kalpakkam, Tamil Nadu | 1 x 500 | PFBR : Sept 2015 |

(b)&(c) Presently, of the total capacity of 5680 MW in operation, a capacity of 3280 MW is fuelled by imported fuel and is being operated at rated capacity. The remaining 2400 MW capacity, fuelled by indigenous fuel is being operated close to the rated capacity, matching the fuel availability.

(d) The present share of nuclear power generation in the total electricity production in the country is of the order of 3.45%.