

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:2523

ANSWERED ON:24.11.2010

NUCLEAR POWER PLANTS

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Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) the details of nuclear power plants in the country with installed capacity;
- (b) the actual nuclear power produced by each of these plants during each of the last three years;
- (c) the per unit cost of nuclear power produced in the country;
- (d) the details of countries who have helped in building these plants;
- (e) whether these countries have agreed to build some more nuclear plants in the country;
- (f) if so, the locations identified alongwith capacity of plants proposed to be installed there; and
- (g) the progress made so far in setting up these plants and the time by which they are likely to be made functional?

Answer

THE MINISTER OF STATE FOR PLANNING AND PARLIAMENTARY AFFAIRS. (SHRI V. NARAYANASAMY) :

(a)&(b) There are 19 reactors in operation in the country. In addition, four reactors [(Kaiga-4 (220 MW), KK-1&2 (2x1000 MW) and 500 MW PFBR] are under advanced stages of construction to be progressively completed in next three years. Work of four more reactors (KAPP-3&4-2x700 MW) and (RAPP-7&8-2x700 MW) has been just launched. These are slated for completion by the year 2017. The details of reactors in operation and their generation are attached as Annexure-1.

(c) The tariffs of nuclear power stations range from 94 paise per unit to 304 paise per unit. The average tariff of nuclear power in the country is about 230 paise per unit.

(d) TAPS 1&2 were set up in the year 1969, on turnkey basis by the USA and RAPS-1&2 were set up in technical cooperation with Canada. After nuclear cooperation ended in 1974, completion of RAPS-2 and setting up of additional reactors has been through indigenous effort. Kudankulam Nuclear Power Project (KK 1&2 – 2x1000 MW), presently under construction, is being set up in technical cooperation with Russian Federation.

(e) After the fruition of international cooperation in nuclear energy, enabling agreements have been concluded with the Russian Federation, France and the USA for setting up nuclear power reactors in the country.

(f) The details of sites accorded in principle approval for setting up nuclear power plants in cooperation with foreign countries are:-

Location & State	Designated country	No. of Reactors# for cooperation
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Kudankulam, Tamil Nadu	Russian Federation	6 at each site
Hariapur, West Bengal	Russian Federation	6 at each site
Jaitapur, Maharashtra	France	6
Kovvada, Andhra Pradesh	USA	6 at each site
Chhaya Mithi Virdi, Gujarat	USA	6 at each site

#These reactors are 1000 MW or higher unit size.

(g) The pre-project activities at these sites including land acquisition at the new sites of Andhra Pradesh and Gujarat are in progress. The plan is to commence work at above sites towards end of XI Plan / beginning of XII Plan in a phased manner on the basis of setting up of two reactors in each phase at a site, with a lag of about three to four years between phases. The expected gestation time of these reactors is six years.

