

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:1962

ANSWERED ON:05.12.2012

NUCLEAR ENERGY GENERATION

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Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) the location of nuclear power plants in the country with respect to seismic zones, plant-wise;
- (b) the details of funds allocated/spent on various atomic power plants during the last three years and the current year, plant and year-wise;
- (c) the quantum of nuclear energy generated during the last three years and the current year, plant and year-wise;
- (d) the ranking of the country in terms of generation of nuclear power among the Asian, developing and developed countries;
- (e) whether the Government proposes to promote private participation in nuclear power generation; and
- (f) if so, the details thereof and if not, the reasons therefor?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (SHRI V. NARAYANASAMY) :

(a) Rawatbhata in Rajasthan as well as Kalpakkam & Kudankulam in Tamil Nadu are located in seismic zone II. Tarapur in Maharashtra, Kakrapar in Gujarat & Kaiga in Karnataka are located in seismic zone III. Narora in Uttar Pradesh comes under seismic zone IV.

(b) The details of allocation/expenditure on various nuclear power plants and schemes during the last three years and current year are as under:-

(`. in crore)							
2009-10	2010-11	2	2011-12	2012-13			
(Upto Oct 2012)							
Allocated	Expenditure	Allocated	Expenditure	Allocated	Expenditure	Allocated	Expenditure
2912.70	2710.86	3675	2470.32	4901	3406.33	5756	2313.93

(c) The details are as under :-

Location & State Units Capacity (MW) Gross generation in Million Units (MUs)
2009-10 2010-11 2011-12 2012-13 (upto Oct 2012)

Light Water Reactors (LWRs)
Tarapur, Maharashtra TAPS-1 160 1199 1142 1371 392
TAPS-2 160 1251 1273 1337 794

Pressurised Heavy Water Reactors (PHWRs)
Tarapur, Maharashtra TAPS-3 540 2787 3582 4325 2441
TAPS-4 540 2754 3124 2781 2214
Rawatbhata, Rajasthan RAPS-1 100 0 0 0 0
RAPS-2 200 950 1720 1821 802
RAPS-3 220 1277 1564 1938 1123
RAPS-4 220 1143 1807 1645 1081
RAPS-5 220 301 1753 1974 908
RAPS-6 220 3 1060 1764 1088
Kalpakkam, Tamil Nadu MAPS-1 220 938 1260 1240 864
MAPS-2 220 1108 980 1276 776
Narora, Uttar Pradesh NAPS-1 220 818 1228 1047 753
NAPS-2 220 0 658 937 726

Kakrapar, Gujarat KAPS-1 220 0 370 1919 1104
KAPS-2 220 1068 1077 1868 875
Kaiga, Karnataka Kaiga-1 220 1011 1259 1270 859
Kaiga-2 220 1111 988 1381 690
Kaiga-3 220 1112 1334 1231 866
Kaiga-4 220 Nil 295 1330 804

Legend:

TAPS - Tarapur Atomic Power Station
RAPS - Rajasthan Atomic Power Station
MAPS - Madras Atomic Power Station
NAPS - Narora Atomic Power Station
KAPS - Kakrapar atomic Power Station
KAIGA - Kaiga Atomic Power Station

(d) In terms of nuclear power generation, India is fifth among Asian countries after Japan, Korea, China & Taiwan. Among developing countries with nuclear power programmes, India ranks second after China. Among all countries, both developed and developing, India is at fifteenth position.

(e)&(f) Private Industries are participating in supply of nuclear components and equipment, execution of works contracts and provision of services. However, there is no proposal for private participation in nuclear power generation.