GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO.1995
TO BE ANSWERED ON 23.07.2014

USE OF ATOMIC ENERGY

1995. DR. MANOJ RAJORIA:

Will the PRIME MINISTER be pleased to state:

(a) the details of projects/fields in various States including Rajasthan wherein atomic energy is being used; and

(b) the cost of each of these projects?

ANSWER

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

(a) & (b) In India, atomic energy is used for large number of applications in the following fields:

i. Nuclear power;

ii. Nuclear fuel cycle, which includes all operations from mining to fuel manufacture, reprocessing and disposal of spent nuclear fuel after vitrification;

iii. Production of radio-isotopes in research reactors, followed by their applications in health care and industry;

iv. Development of indigenous technologies for purification of water by removal of salinity and hazardous chemicals and the transfer of such technologies to Indian industry;

v. Development of mutant breeder seeds and deliveries for meeting various objectives, including higher productivity, disease resistance, drought resistance etc.

vi. Development and application of advanced technologies in the field of electronics and instrumentation, computers, accelerators, lasers etc.;

vii. Research, education and health care in the field of cancer;

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viii. Research and education covering basic sciences, higher mathematics;

ix. Research, development and deployment in areas pertaining to national security;

x. Delivery oriented applied research in scientific and technological domains relevant for the programmes of Department of Atomic Energy (DAE).

In order to support the above mentioned fields of activities, a large number of projects are being implemented throughout the country. Details of some of the major sanctioned projects in the country, costing more than ₹ 300 crore are provided below:

Sl. No.	Name of the Project	Location	Cost (₹ In crore)
	Nuclear Power Projects		
1	Kudankulam Nuclear Power Project Units 1 & 2, Kudankulam	Tamil Nadu	17270
2	Kudankulam Nuclear Power Project Units 3 & 4, Kudankulam	Tamil Nadu	39747
3	Prototype Fast Breeder Reactor at Kalpakkam	Tamil Nadu	5677
4	Rajasthan Atomic Power Project Units 7 & 8, Rawatbhatta	Rajasthan	12320
5	Gorakhpur Haryana Anu Vidyut Pariyojana, Gorakhpur	Haryana	20594
6	Kakrapar Atomic Power Project Units 3 & 4, Kakrapar	Gujarat	11459
	Nuclear Fuel Cycle Facilities		
7	Fast Reactor Fuel Cycle Facility (FRFCF), Kalpakkam	Tamil Nadu	9589

8	Integrated Nuclear Reprocessing Project (INRP), Tarapur	Maharashtra	6657.56
9	Nuclear Fuel Complex, Kota	Rajasthan	2011
10	Additional BARC Complex, Visakhapatnam	Andhra Pradesh	1079
	Health care		
11	Homi Bhabha Cancer Hospital and Research Centre, Mohali	Punjab	480
12	Homi Bhabha Cancer Hospital and Research Centre, Visakhapatnam	Andhra Pradesh	400.93
13	National Hadron Beam Therapy Facility, Mumbai	Maharashtra	425

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