

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:1995
ANSWERED ON:23.07.2014
USE OF ATOMIC ENERGY
Rajoria Dr. Manoj

Will the Minister of ATOMIC ENERGY 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;
- 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	Tamil Nadu	5677

at Kalpakkam
4 Rajasthan Atomic Rajasthan 12320
Power Project Units
7 & 8, Rawatbhatta
5 Gorakhpur Haryana Haryana 20594
Anu Vidyut
Pariyojana,
Gorakhpur
6 Kakrapar Atomic Gujarat 11459
Power Project
Units 3 & 4,
Kakrapar

Nuclear Fuel Cycle Facilities

7 Fast Reactor Fuel Tamil Nadu 9589
Cycle Facility
(FRFCF),
Kalpakkam
8 Integrated Nuclear Maharashtra 6657.56
Reprocessing
Project (INRP),
Tarapur
9 Nuclear Fuel Rajasthan 2011
Complex, Kota
10 Additional BARC Andhra 1079
Complex, Pradesh
Visakhapatnam

Health care

11 Homi Bhabha Punjab 480
Cancer Hospital
and Research
Centre, Mohali
12 Homi Bhabha Andhra 400.93
Cancer Hospital Pradesh
and Research
Centre,
Visakhapatnam
13 National Hadron Maharashtra 425
Beam Therapy
Facility, Mumbai