

**GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1179
TO BE ANSWERED ON 05/08/2010**

URANIUM DEPOSITS IN STATES

1179 SHRI SHANTA KUMAR:

Will the PRIME MINISTER be please to state:

- (a) whether Government has any information about uranium deposits in different States of the country;
- (b) if so, the details thereof;
- (c) the actual requirement of out atomic energy reactors for power generation;
- (d) out of our total requirement of uranium, the amount that is from our own sources and how much is imported and from which country; and
- (e) is there any plan track the entire uranium reserves?

ANSWER

THE MINISTER OF STATE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES (INDEPENDENT CHARGE), PMO, PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PARLIAMENTARY AFFAIRS.
(SHRI PRITHVIRAJ CHAVAN):

(a)&(b) Yes, Sir. The Atomic Minerals Directorate for Exploration and Research (AMD), a constituent Unit under this Department has so far established 1,47,898 tonnes of *in-situ* uranium (U_3O_8) as on 31.05.2010. The State-wise details of the same are as follows:

STATE	ESTIMATED RESOURCES (TONNES U_3O_8)
ANDHRA PRADESH	66,205
CHHATTISGARH	3,986
HIMACHAL PRADESH	784
JHARKHAND	48,074
KARNATAKA	4,682
MAHARASHTRA	355
MEGHALAYA	17,252
RAJASTHAN	5,675
UTTAR PRADESH	885
TOTAL	1,47,898

[1 TONNE OF U_3O_8 = 0.848 TONNES OF URANIUM METAL]

(c)&(d) The first stage of nuclear power programme of setting up Pressurized Heavy Water Reactor (PHWR) capacity of 10,000 MW requires total of about 1,00,000 Tonnes of natural uranium Fuel. Currently, a PHWR capacity of 4,240 MW is in operation. Out of this capacity of 3,060 MW is fuelled by indigenous uranium and balance 1180 MW is operated on imported uranium. The total imported uranium as on date is as follows:

Sr. No.	Country	Quantity imported
1.	France	300 MT of Natural Uranium
2.	Russia	210 MT of Natural Uranium Oxide Pellets
		58 MT of Enriched Uranium Oxide Pellets
3.	Kazakhstan	300 MT of Natural Uranium Ore Concentrate

(e) Yes, Sir. The Atomic Minerals Directorate for Exploration and Research is involved in exploration and tracking of uranium reserves in the country.

**GOVERNMENT OF INDIA
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RAJYA SABHA
UNSTARRED QUESTION NO. 1180
TO BE ANSWERED ON 05/08/2010**

CONTRACT FOR URANIUM MINING

1180 SHRI P. RAJEEVE:

Will the PRIME MINISTER be please to state:

- (a) whether Government of India has entered into any contract for uranium mining from any country; and
- (b) if so, the details thereof;

ANSWER

THE MINISTER OF STATE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES (INDEPENDENT CHARGE), PMO, PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PARLIAMENTARY AFFAIRS.
(SHRI PRITHVIRAJ CHAVAN):

- (a) No, Sir
- (b) does not arise in view of (a) above

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**GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1181
TO BE ANSWERED ON 05/08/2010**

RISK OF CANCER AMONG DAE EMPLOYEES

1181 SHRI K.N. BALAGOPAL

Will the PRIME MINISTER be please to state:

- (a) whether any study has been conducted of cancer risk among the serving employees of the Department of Atomic Energy located in Mumbai, Tarapur, Hyderabad, Kalpakkam and Alwaye;
- (b) if so, the details thereof; and
- (c) the number of DAE employees died of cancer for the last fifteen years?

ANSWER

THE MINISTER OF STATE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES (INDEPENDENT CHARGE), PMO, PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PARLIAMENTARY AFFAIRS.
(SHRI PRITHVIRAJ CHAVAN):

- (a) Yes Sir.
- (b) A team of officials of DAE had carried out a study of cancer risks among the serving employees of the Department of Atomic Energy located in Mumbai, Tarapur, Hyderabad, Kalpakkam and Alwaye, in the 90's. For this study data on age, sex, site specific cancer deaths etc. was collected. The mean duration of the study was about 18 years and consisted of database of over three lakh person-years. A total of 81 cancer deaths were recorded in the study. Under the XI Plan, a project has been taken up to compile the data of mortality rate due to cancer among DAE employees and the process of collection of data is presently on.
- (c) The information compiled so far has revealed that 69 employees of BARC died of cancer during the last 15 years and similar data for other Units of the Department of Atomic Energy is being collected under the XI Plan project mentioned above.

**GOVERNMENT OF INDIA
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RAJYA SABHA
UNSTARRED QUESTION NO. 1182
TO BE ANSWERED ON 05/08/2010**

RADIOACTIVE COBALT IN MAYAPURI

1182 SHRI MOTILAL VORA:
SHRI SATYAVRAT CHATURVEDI:

Will the PRIME MINISTER be please to state:

- (a) whether it is a fact that a number of people got seriously ill on April, 2010 in Mayapuri, Delhi due to radioactive cobalt-60 sold to scrap vendor there;
- (b) if so, the details thereof;
- (c) whether Government has not formulated any policy on radiation so far due to which biomedical and radioactive waste is not being disposed off properly by hospitals and other agencies; and
- (d) if so, by what time Government would frame a law in this regard?

ANSWER

THE MINISTER OF STATE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES (INDEPENDENT CHARGE), PMO, PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PARLIAMENTARY AFFAIRS.
(SHRI PRITHVIRAJ CHAVAN):

- (a) Yes, Sir.
- (b) In the Mayapuri incident, 7 persons were reported with radiation induced symptoms. They were treated in different hospitals of Delhi namely Apollo Hospital (one person), AIIMS (5 persons) and in Military Hospital (one person). One of the persons admitted to AIIMS succumbed to death on April 26, 2010. The other six persons have been discharged from the hospitals on various dates. The last one was discharged on May 24, 2010.
- (c) The Atomic Energy (Radiation Protection) Rule, 2004 and the Atomic Energy (Safe Disposal of Radioactive Wastes) Rules, 1987 framed under the Atomic Energy Act, 1962 lay down the radiation safety requirements.
- (d) Does not arise.
