

**GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO : 740
TO BE ANSWERED ON 04/03/2010**

SHARE IN ATOMIC ENERGY PRODUCTION

740 SHRI PARIMAL NATHWANI:

WILL THE PRIME MINISTER BE PLEASED TO STATE:

- (a) the share of atomic energy in India's total production;
- (b) in what manner it compares with other advanced countries including France;
- (c) the reasons for low production of atomic energy; and
- (d) the details of steps taken by Government to increase atomic energy including commissioning of new plants and increased capacity of existing plants?

ANSWER

THE MINISTER OF STATE, INDEPENDENT CHARGE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES, MINISTER OF STATE FOR PMO, PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PARLIAMENTARY AFFAIRS.

(SHRI PRITHVIRAJ CHAVAN):

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- (a) The current share of nuclear energy in the total generation in the country is about 2.4%
 - (b) The shares of nuclear generation in other countries are:

Country	Share of nuclear energy in total electricity generation %
USA	20
France	76
Japan	25
Russian Federation	17
Germany	28
Republic of Korea	36
UK	13
China	2

Source : IAEA

- (c) The reason for lower share in India is small installed capacity base of 4340 MW.
- (d) The present installed nuclear power capacity of 4340 MW is expected to reach 7280 MW by March 2012 with the progressive completion of projects under construction. Projects for 2800 MW capacity addition by 2016/2017 have been approved in the year 2009. More projects are also planned in future to further increase the nuclear power capacity. The capacity utilization of the existing plants is also expected to be higher through augmentation of domestic uranium supplies and use of imported uranium.

**GOVERNMENT OF INDIA
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UNSTARRED QUESTION NO : 741
TO BE ANSWERED ON 04/03/2010**

DISCOVERY OF MONAZITE IN ODISHA

**741 SHRI RUDRA NARAYAN PANY:
SHRI SHREEGOPAL VYAS**

WILL THE PRIME MINISTER BE PLEASED TO STATE:

- (a) whether Government is aware that several moré claimants the land on lease following discovery of contents of thorium-mixed monazite ore under the land at Puri seacoast identified and allotted for Vedant University by Government of Odisha;
- (b) whether it is also a fact that around 22 companies have applied for this land in the meantime;
- (c) if so, the details thereof;
- (d) whether State Government can allot such land to any company or an individual on 'lease', under which prospects of minerals required for atomic energy production also available; and
- (e) if not, in such a situation how Government of Odisha is going to allot this disputed land to a disputed company Vedant for setting up of a university?

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):**

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- (a) No sir.
- (b) & (c) Department of Atomic Energy (DAE) is not involved in any manner in setting up of the Vedant University or in the allocation of land.
- (d) & (e) Management of Minerals in the State is the prerogative of the State Government. Under the Mines and Minerals (Development and Regulation) Act, 1957, for Atomic Minerals, specified in the First Schedule of the Act, a State Government cannot grant reconnaissance permit, prospecting license or a mining lease to any company or individual without the previous approval of the Central Government. This case is for setting of University and not for prospecting and mining of minerals. DAE has not notified the above are for reserving for the purpose of exploration of Atomic Minerals.

**GOVERNMENT OF INDIA
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UNSTARRED QUESTION NO : 742
TO BE ANSWERED ON 04/03/2010**

RESTRICTION ON PUTTING NUCLEAR POWER REACTORS

**742 SHRI B.S. GNANADESIKAN:
SHRI SANTOSH BAGRODIA:**

WILL THE PRIME MINISTER BE PLEASED TO STATE:

- (a) whether there is any restriction imposed on putting up US nuclear power reactors in different parts of the country;
- (b) if so, the basis and criteria; and
- (c) the places where US made nuclear power reactors would be finally put up and by when?

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):**

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- (a) to (c) Setting up of significant nuclear power capacity through power reactors of 1000 MW or higher capacity in cooperation with foreign countries, including the USA, requires abundant cooling water and sea route for transportation of heavy equipment. Coastal sites, therefore are better suited for such nuclear power parks with eventual capacity of 6000-8000 MW. Two sites, one at Kovvada in Andhra Pradesh and another at Chhayamithi Virdi in Gujarat have been approved in principle for setting up reactors based on co-operation with the USA. Presently discussions on setting up of nuclear power plants are being held with US companies.

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UNSTARRED QUESTION NO : 743
TO BE ANSWERED ON 04/03/2010**

COST OF NUCLEAR POWER TECHNOLOGY

743 SHRI A. ELAVARSAN:

WILL THE PRIME MINISTER BE PLEASED TO STATE:

- (a) whether Government has asked US to reduce the nuclear power cost and the cost of nuclear power technology it is offering to India;
- (b) if so, the details thereof;
- (c) whether the cost of the US nuclear power technology is Rs.15-16 crores per MW against Rs.7-8 crore per MW in India; and
- (d) 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):**

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- (a) to (d) During informal discussions with US companies in various fora, need for commercial viability of the projects has been emphasised.

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TARGET OF ATOMIC ENERGY

744 SHRI RAMA CHANDRA KHUNTIA:

WILL THE PRIME MINISTER BE PLEASED TO STATE:

- (a) the target of Atomic Energy by the end of this five yuear plan;
- (b) whether we have been able to achieve the Target; and
- (c) if not, the reasons 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):**

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- (a) The nuclear power capacity addition target for the XI Plan (2007-12) is 3160 MW.
- (b) A capacity of 220 MW has been added by completion of RAPP Unit-5 at Rawatbhata, Rajasthan. Another 220 MW is expected to be added through completion of RAPP Unit-6 by March 2010. Further capacity addition through progressive completion of Kaiga Unit-4 (220 MW), twin units of Kudankulam Nuclear Power Project 1&2 (2000 MW) and Fast Breeder Reactor (500 MW) at Kalpakkam which are in advanced stages of completion. They are likely to be completed in the remaining two years of the Plan period.
- (c) Does not arise.

**GOVERNMENT OF INDIA
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UNSTARRED QUESTION NO : 745
TO BE ANSWERED ON 04/03/2010**

URANIUM DEPOSITS IN COUNTRY

745 SHRI SYED AZEEZ PASHA:

WILL THE PRIME MINISTER BE PLEASED TO STATE:

- (a) whether Uranium Corporation of India has located high value uranium deposits in different parts of the country;
- (b) the details of viable and useful funds;
- (c) the costs incurred by the Uranium Corporation of India for exploration and other expenses in the last three years;
- (d) the details of such findings, State-wise;
- (e) the expected revenue and the earmarked share for Andhra Pradesh; and
- (f) the present status of such projects in Andhra Pradesh?

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):**

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- (a) Yes Sir, Atomic Minerals Directorate for Exploration & Research(AMD), a constituent unit under Department of Atomic Energy(DAE) has located uranium deposits in different parts of the country.
 - (b) The funds are allocated from the sanctioned budget of the Department of Atomic Energy.
 - (c) The costs incurred by the AMD for exploration and other expenses in the last three years are as follows:

(Rupees in crores)

Year	Non plan	Plan		
		R&D Sector	I&M Sector	Total
2006-2007	59.48	15.74	4.94	20.68
2007- 2008	63.40	29.70	14.35	44.05
2008-2009	99.72	50.81	43.01	93.82
Total	222.60	96.25	62.30	158.55

- (d) New deposits of Uranium ore have been identified in Andhra Pradesh, Chattisgarh, Karnataka, Rajasthan, Uttar Pradesh, Himachal Pradesh, Madhya Pradesh and Uttarakhand.
- (e) The concerned states can expect royalty only on starting of production of Uranium from the Uranium ore by Uranium Corporation of India Limited(UCIL), which is payable @ 2% on the compensation received by UCIL as fixed by Ministry of Mines Note No.3/1/2005.M.VI dated 19.12.2008.
- (f) The Uranium Corporation of India Limited (UCIL) a Public Sector Undertaking of the Department of Atomic Energy is constructing a new mine and processing plant at Tummalapalle in the Cuddapah District, Andhra Pradesh. UCIL also proposes to set up new mines and a processing plant at Lambapur- Peddagattu in the Nalgonda District, Andhra Pradesh. However, these projects can not be taken up for want of all statutory clearances and approval from the Government of India.

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EXPLORATION OF URANIUM IN JHARKHAND

746 SHRI S.S. AHLUWALIA:

WILL THE PRIME MINISTER BE PLEASED TO STATE:

- (a) the details of the regions in Jharkhand where exploration of Uranium is being carried out by agencies viz., Uranium Corporation of India, since identification of Uranium reserves in the States;
- (b) the details of population of displaced from these regions indicating the steps taken for providing them compensations and rehabilitation;
- (c) the details of population suffering from ailments caused by exposure to radio active environment around the mines indicating steps taken, if any, for ensuring their diagnosis and rendering appropriate medical care for it; and
- (d) the measures taken for rehabilitation of those rendered physically handicapped consequent to such sickness?

ANSWER

THE MINISTER OF STATE, INDEPENDENT CHARGE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES, MINISTER OF STATE FOR PMO, PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PARLIAMENTARY AFFAIRS.

(SHRI PRITHVIRAJ CHAVAN):

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- (a) Uranium Corporation of India Limited(UCIL), a Public Sector Undertaking under the Department of Atomic Energy, is engaged in mining and processing Uranium minerals. Exploration of Uranium is being carried out by Atomic Minerals Directorate for Exploration & Research(AMD), a constituent unit under Department of Atomic Energy(DAE). Based on AMD's report, UCIL takes up mineable Uranium reserves in the country for commercial exploitation. At present UCIL is operating five underground mines in Jaduguda, Bhatin, Narwapahar, Turamdih and Bagjata, one open cast mine at Banduhurang and two processing plants at Jaduguda and Turamdih all in Jharkhand state.
 - (b) For setting up these mines in Jharkhand, UCIL has acquired a total land of 1061 acres on payment of total compensation of Rs.5,82,23,612/- (Rupees five crore eighty two lakh twenty three thousand six hundred and twelve only) to about 814(eight hundred and fourteen) displaced families. UCIL has provided employment to total 1263(One thousand two hundred and sixty

three) displaced persons as per Rehabilitation & Resettlement Policy of the Company.

: 2 :

- (c) The operations of UCIL are carried out under strict surveillance of Atomic Energy Regulatory Board (AERB)/State Pollution Control Board, Director General of Mines & Safety (DGMS) and International Commission of Radiological Protection (ICRP), and as such there is no adverse effect on the public health.
- (d) Does not arise.
