

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 5672
TO BE ANSWERED ON 07.09.2011

URANIUM RESERVES

5672. SHRI MANISH TEWARI:

Will the PRIME MINISTER be pleased to state:

- (a) the number of years nuclear power generation can sustain on the uranium reserves available in the country;
- (b) the average spending to extract one kilogram of Uranium from the ore in comparison with other countries which have Uranium reserves; and
- (c) the details of the contracts for construction of nuclear reactors which have already been awarded and to which entity and the details of the process involved in awarding these contracts?

ANSWER

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

- (a) The known resources of uranium in the country (about 1,00,000 tons of U₃O₈) were considered adequate to support a PHWR capacity of 10,000 MW for 40 years. The Atomic Minerals Directorate of Exploration and Research (AMD) have intensified its exploration efforts and the present estimated in-situ uranium resource stands at about 1,71,672 tons of U₃O₈.
- (b) The average compensation price for producing 1 kg of U₃O₈ by Uranium Corporation of India Limited (UCIL) is ₹.18,972.00 for the year 2010-11. Data on the average spending by other countries for extracting are not available. However, the international price of Uranium varied between 45 – 130 US \$ / lb depending upon time and mode of purchase.
- (c) Nuclear power projects in the country are set up by Nuclear Power Corporation of India Limited (NPCIL) and Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI) Public Sector Undertakings (PSUs) under the Department of Atomic Energy (DAE). NPCIL has commenced construction of two nuclear power projects – KAPP 3 & 4 (2 x 700 MW) at Kakrapar in Gujarat and RAPP 7&8 (2 x 700 MW) at Rawatbhata in Rajasthan. Details of major contracts awarded for construction of these projects were as follows:

Package	KAPP 3&4	RAPP 7&8
Civil Works	Larsen & Toubro (L&T)	Hindustan Construction Company (HCC)
Steam Generator Package	BHEL & L&T	BHEL & L&T
Turbogenerator package	BHEL Alsthom Consortium	-
Endshields	L&T	L&T
Primary Piping Package	M/s. Punj Lloyd	M/s. Punj Lloyd
Calandria	Walchandnagar Industries Limited (WIL)	WIL & Godrej

Tender is invited through Open Tender Process. The tender notice is published through leading newspapers as well as hosted in NPCIL website. Evaluation of the bids is carried out as per the criteria designed in the tender document. The contract is awarded to the lowest techno-commercial offer.