

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2789
TO BE ANSWERED ON 15.12.2021

PRODUCTION OF URANIUM

2789. SHRI RITESH PANDEY:

Will the PRIME MINISTER be pleased to state :

- (a) whether the current annual production of uranium in the country is enough to meet the annual fuel requirement of all the operational uranium-based Nuclear Power Plants and if so, the details thereof;
- (b) If not, the steps taken/being taken by the Government to explore alternative fuel/technologies /imported fuel for the said purpose;
- (c) the details of estimated uranium reserves and extraction potential in the country, uranium mine-wise and State/UT-wise and the details of the uranium extracted during each of the last three years, uranium mine-wise and State/UT-wise along with the funds allocated and utilised thereon during the said period; and
- (d) whether the country is importing uranium from other countries and if so, the details thereof during the given period including the quantity of imported uranium along with the funds spend thereon, country-wise?

ANSWER

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

- (a)to (d) Current annual production of uranium in the country is not adequate to meet the annual fuel requirement of all the operational uranium based nuclear power plants. However, we are continuously exploring the possibility of alternate fuel based on thorium in this regard for which we have enough reserves. Further, Department is importing uranium from different countries like Canada, Kazakhstan, Uzbekistan and Russia also.

The Atomic Minerals Directorate for Exploration and Research (AMD), a constituent unit of Department of Atomic Energy (DAE), has the mandate to identify, evaluate and augment mineral resources of uranium, thorium, niobium, tantalum, beryllium, lithium, zirconium, titanium and rare earths containing uranium and thorium in the country. As on November, 2021 AMD has established 3,58,496 tonne (t) in situ Uranium Oxide. The state-wise details of the uranium resources identified by AMD are given in **Annexure - A**. It is not in the public interest to disclose the details of Uranium extraction.

The details of imported uranium along with the fund spent thereon, country-wise are attached as **Annexure - B**.

STATE-WISE DETAILS OF THE ESTIMATED URANIUM RESOURCES

State	District	Name of the deposit	Resource (tonne)	Category
			U ₃ O ₈	
Andhra Pradesh	Kadapa	Tummalapalle Group	2,06,124	Existing mine (Under investigation)
	Guntur	Koppunuru	2,761	Estimated Resource
	Sub-total		2,08,885	
Telangana	Nalgonda	Lambapur	1,450	Planned mining centre
		Peddagattu	7,585	Planned mining centre
		Chitrial	9,515	Under investigation
	Sub-total		18,550	
Jharkhand	East Singhbhum	Jaduguda	8,038	Existing mine
		Jaduguda North	6,810	Under investigation
		Bhatin	1,700	Existing mine
		Narwapahar (NWP) + NWP Extn.	11,780	Existing mine
		Narwapahar Deeper	8,034	Extension of existing mine
		Turamdih Group	11,510	Existing mine
		Banduhurang	6,489	Existing mine
		Bagjata	1,860	Existing mine
		Mohuldih	3,330	Existing mine
		Garadih	1,270	Small deposit
		Kanyaluka	1,970	Small deposit
		Nimdih	815	Small deposit
		Rajgaon	1,200	Small deposit
		Singridungri- Banadungri	12,575	Under investigation
		Rajdah	1,019	Under investigation
	Saraikele- Kharswan	Bangurdih	1,785	Under investigation
Sub-total		80,185		

Meghalaya	South West Khasi Hills	KPM (Domiasiat)	9,500	Planned mining centre
		Wahkyn - Wahkut	9,764	Exploratory mining planned (Under investigation)
		Gomaghat-Phlangdiloin	1,000	Small deposit
		Tyrnai	600	Small deposit
		Lostoin	869	Small deposit
		Umthongkut	1,535	Small deposit
	Sub-total		23,268	
Rajasthan	Sikar	Rohil	8,610	Exploratory mining centre (Under investigation)
		Rohil (West)	955	Small deposit
		Jahaz	3,570	Under investigation
	Udaipur	Umra	1,160	Small deposit
	Sub-total		14,295	
Karnataka	Yadgir	Gogi	4,267	Exploratory mining centre
		Kanchankayi – Hulkal	2,621	Under investigation
	South Canara	Walkunji-Yellakki	415	Small deposit
	Sub-total		7,303	
Chhattisgarh	Rajnandgaon	Bodal	1,530	Small deposit
		Bhandaritola	518	Small deposit
	Surguja	Jajawal	1,438	Small deposit
		Dumath - Dhabhi	500	Small deposit
	Sub-total		3,986	
Uttar Pradesh	Sonbhadra	Naktu	785	Under investigation
	Sub-total		785	
Uttarakhand	Rudraprayag	Pokhri-Tunji	100	Small deposit
	Sub-total		100	
Himachal Pradesh	Una	Rajpura	364	Under investigation
	Shimla	Kasha-Kaladi	200	Small deposit
	Mandi	Tileli	220	Small deposit
	Sub-total		784	
Maharashtra	Gondia	Mogarra	355	Small deposit
	Sub-total		355	
Grand total			3,58,496	

SUMMARY OF FUEL IMPORT DETAILS SINCE 2018-19 ONWARDS

SR. NO.	YEAR	ENRICHED URANIUM FUEL PELLETS SUPPLIED BY JSC TVEL RUSSIA		NATURAL URANIUM ORE CONCENTRATE SUPPLIED BY M/S JSC NAC KAZATOMPROM KAZAKHSTAN		CAMECO INC., CANADA		TOTAL	
		QUANTITY RECD (IN MTU)	EXPENDITURE (IN RS.)	QUANTITY RECD (IN MTU)	EXPENDITURE (IN RS.)	QUANTITY RECD (IN MTU)	EXPENDITURE (IN RS.)	QUANTITY RECD (IN MTU)	EXPENDITURE (IN RS.)
		(A)	(B)	(C)	(D)	(E)	(F)	(C + E)	(D + F)
1	2018-19	0	0	2057.87	10109501189	986.6012	4729009404	3044.4712	14838510593
2	2019-20	56.78	3333106951	1499.98	7100564369	1001.291	4758338776	2501.271	11858903145
3	2020-21	0	0	999.82	5724414464	1000.479	6189530677	2000.298	11913945141
