

GOVERNMENT OF INDIA  
DEPARTMENT OF ATOMIC ENERGY  
RAJYA SABHA  
UNSTARRED QUESTION No.961  
TO BE ANSWERED ON 26.07.2018

**EXPLOITATION OF ATOMIC MINERALS**

961. Dr. V. MAITREYAN:

Will the PRIME MINISTER be pleased to state:

- (a) whether Government has taken a serious note on exploitation of Molybdenum available near Harur Taluk, Dharmapuri District in Tamil Nadu to facilitate Defence and Aviation Sectors;
- (b) if so, the details thereof, .
- (c) whether Government has done mapping of availability of atomic mineral deposits in the country;
- (d) if so, the details thereof and if not, the reasons therefor;
- (e) whether Government has granted any mining permission for PSUs or private companies for the exploitation of atomic minerals; and
- (f) if so, the details thereof?

**ANSWER**

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

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- (a)&(b) Government of India is aware of the fact that 10.98 million tonnes of resources of Molybdenum Ore is located in Tamil Nadu. However, Department of Atomic Energy (DAE) has not taken up any project for exploitation of Molybdenum available near Harur Taluk, Dharmapuri District in Tamil Nadu.
- (c) Yes, Sir
- (d) 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, rare earths (containing uranium and thorium) besides beach sand minerals like garnet and sillimanite [Atomic Minerals (Part B, First Schedule), The Mines and Minerals (Development and

Regulation) Act, 1957]. During the last six and a half decades, AMD has identified adequate resources of atomic minerals in the country. The details of the resources of atomic minerals as on May, 2018 are furnished below:

Uranium –3,00,034 tonne uranium oxide (U<sub>3</sub>O<sub>8</sub>)

Beach Sand Minerals [BSM] – 1,173.07 million tonne.

The resources of the minerals comprising BSM are given below:

Thorium (as monazite) - 12.47 million tonne (1.12 million tonne ThO<sub>2</sub>)

The mineral monazite, containing ~ 55 - 60% total Rare Earth Elements (REE), is also the major resource for REE. AMD has also established ~ 2,000 tonne of ~2% xenotime (yttrium + REE mineral) - bearing heavy mineral concentrate.

Titanium (as ilmenite, leucoxene and rutile) - 682.30 million tonne

Zirconium (as zircon) - 35.75 million tonne

Garnet - 187.46 million tonne

Sillimanite -255.09 million tonne

(e)&(f)The mining lease deed between the applicant and the State Government is executed by the respective State Governments subject to production of approved mining plan and other statutory permissions issued by various Government Departments. The details of mining plans approved by AMD for private as well as Central Government Public Sector Undertakings are as per Annexure – I & II. At present, uranium deposits established by AMD are mined by Uranium Corporation of India Limited (UCIL), a PSU of DAE. In respect of beach sand minerals, the mining operations are being carried out by both PSUs and private entrepreneurs. In respect of other atomic minerals like beryl, columbite, tantalite, lepidolite etc., no specific mining operations are being carried out except their recovery as by-products incidental to prospecting operations.

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## DETAILS OF 88 Nos of MINING PLANS APPROVED BY AMD FOR BEACH SAND MINERALS

Sl. No.	Name of the Company	Area(Ha)	Village	District	State
<b>Private Companies</b>					
1	V V Mineral	2.40.5	Vijaypathy-II	Tirunelveli	T.N.
2	V V Mineral	3.38	Thiruvambalapuram	Tirunelveli	T.N.
3	V V Mineral	4.80.0	Vijaypathy- III	Tirunelveli	T.N.
4	V V Mineral	4.51	Vijaypathy-I	Tirunelveli	T.N.
5	V V Mineral#	4.00.5	Padukkapathu	Tuticorin	T.N.
6	V V Mineral#	4.20.5	Madhavankurichi	Tuticorin	T.N.
7	V V Mineral	36.42	K.Pudur,K.Ovari	Tirunelveli	T.N.
8	V V Mineral	2.49	Karaichuttupudur	Tirunelveli	T.N.
9	V V Mineral	5.00.0	Irukkandurai W	Tirunelveli	T.N.
10	V V Mineral	2.29	Karaichuttupudur	Tirunelveli	T.N.
11	V V Mineral	2.47	Karaichuttupudur	Tirunelveli	T.N.
12	V V Mineral	2.22.5	Azhagappapuram	Kanyakumari	T.N.
13	V V Mineral	3.08.5	Azhagappapuram	Kanyakumari	T.N.
14	V V Mineral	0.96	K.Pudur	Tirunelveli	T.N.
15	V V Mineral	5.00.0	Irukkandurai E	Tirunelveli	T.N.
16	V V Mineral	1.77.5	Azhagappapuram	Kanyakumari	T.N.
17	V V Mineral	4.09.5	Levenjipuram	Tirunelveli	T.N.
18	V V Mineral	0.95.5	Azhagappapuram	Kanyakumari	T.N.
19	V V Mineral	3.78.5	Levenjipuram	Tirunelveli	T.N.
20	V V Mineral	3.07.9	Azhagappapuram	Kanyakumari	T.N.
21	V V Mineral	4.06	Vaipar-I	Thothukudi	T.N.
22	V V Mineral	4.06.5	Thiruvambalapuram	Tirunelveli	T.N.
23	V V Mineral	121.41	Thiruvambalapuram, chetikulam, Kudankulam, Levinjipuram	Tirunelveli	T.N.
24	V V Mineral	4.03.5	K.Pudur	Tirunelveli	T.N.
25	V V Mineral	4.06.0	Vaipar-I	Tuticorin	T.N.
26	V V Mineral	2.67.0	Udankudi	Tuticorin	T.N.
27	V V Mineral	3.06.5	Vaipar-I	Tuticorin	T.N.
28	V V Mineral	2.93.0	Kandasampapuram	Tuticorin	T.N.
29	V V Mineral	7.03.0	Keela Tiruchendur	Thothukudi	T.N.
30	V V Mineral	5.00.0	Agastheeswaram	Kanyakumari	T.N.
31	V V Mineral	2.79.5	Vaipar-I	Tuticorin	T.N.
32	Industrial Minerals Company*	0.83	K.Pudur	Tirunelveli	T.N.
33	Industrial Minerals Company*	9.00.0	Irukkandurai	Tirunelveli	T.N.
34	Industrial Minerals Company*	7.86.5	Karaichuttupudur	Tirunelveli	T.N.
35	Industrial Minerals Company*	3.70.5	Levenjipuram	Tirunelveli	T.N.
36	Industrial Minerals Company*	3.35.8	Levenjipuram	Tirunelveli	T.N.
37	Industrial Minerals Company*	3.63	Midalam	Kanyakumari	T.N.
38	Industrial Minerals Company*	3.47	Thiruvambalapuram	Tirunelveli	T.N.
39	Industrial Minerals Company*	4.77.5	Chettikulam	Tirunelveli	T.N.
40	Industrial Minerals Company*	2.19.0	KaraichuttuOvari	Tirunelveli	T.N.
41	Industrial Minerals Company*	4.98	Vijaypathy-IV	Tirunelveli	T.N.
42	Beach Minerals Sand Company	4.12.5	Mathavankurichi	Tuticorin	T.N.
43	Beach Minerals Sand Company	4.00.5	Padukkapathu	Tuticorin	T.N.
44	Beach Minerals Sand Company	5.00.0	Manappadu	Tuticorin	T.N.
45	Beach Minerals Sand Company	2.87	Kuttam I	Tirunelveli	T.N.
46	Beach Minerals Sand Company	2.60.0	Kuttam II	Tirunelveli	T.N.
47	Beach Minerals Sand Company	4.15.5	Kuttam III	Tirunelveli	T.N.

Sl. No.	Name of the Company	Area(Ha)	Village	District	State
48	Beach Minerals Sand Company	4.90.0	Kuttam IV	Tirunelveli	T.N.
49	Beach Minerals Sand Company	4.76	Kuttam V	Tirunelveli	T.N.
50	Beach Minerals Sand Company	4.73	Kuttam VI	Tirunelveli	T.N.
51	Beach Minerals Sand Company	2.46.5	Kuttam VII	Tirunelveli	T.N.
52	Beach Minerals Sand Company	4.42.5	Kuttam VIII	Tirunelveli	T.N.
53	Indian Garnet Sands Company	21.0.0	Undi	Ratnagiri	Maharashtra
54	Indian Garnet Sands Company	15.6.0	Reel	Ratnagiri	Maharashtra
55	Indian Garnet Sands Company	54.0.0	Kalbadevi	Ratnagiri	Maharashtra
56	Indian Garnet Sands Company	45.0.0	Pethpurangad	Ratnagiri	Maharashtra
57	Indian Garnet Sands Company	67.5.0	Gaokhadi	Ratnagiri	Maharashtra
58	Indian Garnet Sands Company	90	Varwade	Ratnagiri	Maharashtra
59	Kerala Rare Earth Minerals	4.43.95	Arattupuzha	Alappuzha	Kerala
60	Kerala Rare Earth Minerals	4.93.84	Arattupuzha	Alappuzha	Kerala
61	Kerala Rare Earth Minerals	4.65.29	Arattupuzha	Alappuzha	Kerala
62	Kerala Rare Earth Minerals	4.54.25	Arattupuzha	Alappuzha	Kerala
63	Rare Minerals	10.75	Dabhol	Ratnagiri	Maharashtra
64	Rare Minerals	14.00	Dandewadi	Ratnagiri	Maharashtra
65	Rare Minerals	17.00	Koithare	Ratnagiri	Maharashtra
66	Rare Minerals	4.00	Randpar	Ratnagiri	Maharashtra
67	Rare Minerals	4.75	Pawas	Ratnagiri	Maharashtra
68	Trimex Sands Pvt. Ltd.	720	Srikurmam	Srikakulam	A.P.
69	Trimex Heavy Minerals Pvt. Ltd.	1788	Bhavanapadu	Srikakulam	A.P.
70	Trimex Ores Pvt. Ltd.	1538.566	Kalingapatnam	Srikakulam	A.P.
71	Industrial Minerals India (P) Ltd	36.66.5	Vembar, Periasampuram	Tuticorin	T.N.
72	Yes Yes Minerals	8.59.5	Vanagiri	Nagapattinam	T. N
<b>PSU's</b>					
73	Kerala Minerals and Metals Ltd	188.42 Acre	Neendakara, Chavara	Kollam	Kerala
74	Indian Rare Earth Limited	465	Kudiraimozhi	Chidambaranar	T.N
75	Indian Rare Earth Limited	157.212	Neendakara-Kayamkulam	Kollam	Kerala
76	Indian Rare Earth Limited	67	Chavara-Neendakara	Kollam	Kerala
77	Indian Rare Earth Limited	180	Alappad, Panmana & Ayanivelikulangara	Kollam	Kerala
78	Indian Rare Earth Limited	4.8	Alappad	Kollam	Kerala
79	Indian Rare Earth Limited	4.8	Alappad	Kollam	Kerala
80	Indian Rare Earth Limited	185.8499	Manavalakurichi	Kanyakumari	T.N
81	Indian Rare Earth Limited	141.22.69	Manavalakurichi	Kanyakumari	T.N
82	Indian Rare Earth Limited	23.84	Manavalakurichi, Vattakottai	Kanyakumari	T.N
83	Indian Rare Earth Limited	29.78.12	Midalam, Keezh Midalam	Kanyakumari	T.N
84	Indian Rare Earth Limited	14.84.0	Manavalakurichi	Kanyakumari	T.N
85	Indian Rare Earth Limited	7.06.0	Manavalakurichi	Kanyakumari	T.N
86	Indian Rare Earth Limited	2728.49	O5COM	GANJAM	Odisha
87	Indian Rare Earth Limited	4.9	Arattupuzha	Alappuzha	Kerala
88	Indian Rare Earth Limited	857 acre	Bhimli	Vishakhapatnam	A.P.

#- Mining Plan withdrawn

\*- Mining Plan approved in favour of M/s. V.V. Mineral / Indian Garnet Supply Co.

## Details of Mining Plans Approved by AMD in favour of M/s UCIL

S.No	Name of Mines	Extent(Ha)	Village	District	State
1	Narwapahar Uranium Mine	456.62	Patharchaki, Hartopa, Margaghutu & Rajdoha	East Singhbhum	Jharkhand
2	Lambapur-Peddagattu Uranium Mine	526.65	Nammapuram & Yellapuram under PA Pally Mandal	Nalgonda	Andhra Pradesh
3	Turamdih Uranium Mine	238.34	Nandup, Banduhurang & Purihasa	East Singhbhum	Jharkhand
4	Banduhurang Uranium Mine	278.153	Banduhurang, Keruadungri & Talsa	East Singhbhum	Jharkhand
5	Bagjata Uranium Mine	122.73	Phuljhari, Bagjata & Bhadula	East Singhbhum	Jharkhand
6	Mohuldih Uranium Mine	116.68	Mohuldih, Kumhari, Brahamandungri, Tiridih, Parvatipur & Kamalpur	Saraikala-Kharsuwan	Jharkhand
7	Tummalapalle Uranium Mine	813.61	Tummalapalle, Rachakuntapalle	Cuddapah	Andhra Pradesh
8	Domiasiat Uranium Mine	290.45	Mawthawpdah	West Khasi Hill	Meghalaya
9	Gogi Uranium Mine	39.133	Gogi	Yadgir	Karnataka
10	Jaduguda Uranium Mine	388.23	Ichra, Mechuya & Tilaiband	East Singhbhum	Jharkhand
11	Bhatin Uranium Mine	142.98	Bhatin	East Singhbhum	Jharkhand