

STATE REVIEWS



Indian Minerals Yearbook 2018

(Part- I)

57th Edition

STATE REVIEWS
(Uttarakhand)

(FINAL RELEASE)

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UTTARAKHAND

Mineral Resources

Important minerals that are found to occur in the State are high-grade **limestone** in Almora, Bageshwar, Dehradun, Nainital, Pauri-Garhwal, Pithoragarh & Tehri-Garhwal districts; **magnesite** and **steatite** in Almora, Bageshwar, Chamoli & Pithoragarh districts; and **tungsten** in Almora district.

Other minerals that occur in the State are: **asbestos** in Chamoli district; **barytes** and **marble** in Dehradun district; **copper** in Almora, Dehradun & Pithoragarh districts; **dolomite** in Dehradun, Nainital and Tehri-Garhwal districts; **graphite** in Almora district; **gypsum** in Dehradun, Pauri-Garhwal & Tehri-Garhwal districts; **lead-zinc** and **silver** in Dehradun & Pithoragarh districts; and **rock phosphate** in Dehradun & Tehri-Garhwal districts (Table - 1).

Exploration and Development

GSI carried out exploration for Rare-Earth Elements (REE) in district Chamoli in the State of Uttarakhand during 2017-18. Details of exploration are furnished in Table-2.

Production

The only important mineral item produced in Uttarakhand during 2017-18, was magnesite.

The value of production of minor minerals was estimated at ` 63 crore for the year 2017-18 (Table-3).

Mineral-based Industry

The present status of each Mineral-based Industry is not readily available. However, the important medium and large-scale mineral-based industries in the organised sector in the State are given in Table - 4.

Table – 2: Details of Exploration Activities in Uttarakhand, 2017-18

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Tungsten, molybdenum, rare-metal and REE mineralisation							
Chamoli Pithoragarh	Dhar-Chahaj area	1:12500	51.0	-	-	-	Reconnaissance survey for tungsten, molybdenum, rare-metal and REE mineralisation was taken up in tertiary granites and Central Crystallines of Higher Himalaya by large-scale mapping. The geology of the area comprises of migmatites, garnet-sillimanite gneiss, quartzite and phyllites. Seven bodies of granite have been mapped around Malari area. The rock types mapped are calc-gneiss, micaceous quartzite and migmatites. Migmatites are also observed to the north of Mana area and along tract of Badrinath-Hanuman Chatti sector. A small patch of mica granite with minor tourmaline granite vein was seen on the vertical cliff to the north-west of Mana area. A small patch of tourmaline granite was observed in the calc-gneiss to the east of Badrinath area.

Table -1: Reserves/Resources of Minerals as on 1.4.2015: Uttarakhand

Mineral	Unit	Reserves				Remaining Resources						Total resources (A+B)		
		Proved STD 111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)
			STD121	STD122			STD221	STD222						
Asbestos [#]	tonne	-	-	-	-	-	-	-	311	-	-	311	311	
Barytes [#]	tonne	-	-	-	-	-	-	-	-	25000	-	25000	25000	
Copper														
Ore	'000 tonnes	-	-	-	-	-	-	3170	390	660	-	4220	4220	
Metal	'000 tonnes	-	-	-	-	-	-	53.45	1.44	5.15	-	60.04	60.04	
Dolomite [#]	'000 tonnes	1570	594	2165	36	721	371	1946	981	199834	-	203888	206053	
Graphite	tonne	-	-	-	-	-	-	10700	-	-	-	10700	10700	
Gypsum [#]	'000 tonnes	-	-	-	-	-	35	-	-	2012	-	2047	2047	
Lead-Zinc														
Ore	'000 tonnes	-	-	-	-	-	-	3170	1790	660	-	5620	5620	
Lead metal	'000 tonnes	-	-	-	-	-	-	138.85	34.25	9.5	-	182.60	182.60	
Zinc metal	'000 tonnes	-	-	-	-	-	-	151.21	87.99	27.63	-	266.83	266.83	
Limestone	'000 tonnes	-	-	-	5035	91872	60429	29486	164879	1191059	-	1542760	1542760	
Magnesite	'000 tonnes	3104	4206	7310	1023	602	31534	58902	58756	73287	-	224103	231413	
Marble [#]	'000 tonnes	-	-	-	-	-	-	-	-	6000	-	6000	6000	
Rock														
Phosphate	tonne	-	-	-	3063503	-	1734370	2760000	-	16620513	-	24178386	24178386	
Silver														
Ore	tonne	-	-	-	-	-	-	1600000	1400000	390000	-	3390000	3390000	
Metal	tonne	-	-	-	-	-	-	134	4.2	0.39	-	138.59	138.59	
Talc-Steatite-														
Soapstone [#]	'000 tonnes	16896	4521	2698	5831	5353	8982	978	2372	24388	5860	53765	77881	
Tungsten														
Ore	tonne	-	-	-	-	-	-	-	138000	-	520000	658000	658000	
Contained														
WO ₃	tonne	-	-	-	-	-	-	-	25	-	680	705	705	

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Figures rounded off
Declared as Minor Mineral vide Gazette Notification dated 10.02.2015
Minor Minerals before Gazette Notification dated 10.02.2015

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**Table-3 : Mineral Production in Uttarakhand, 2015-16 to 2017-18
(Excluding Atomic Minerals)**

(Value in `000)

Mineral	Unit	2015-16			2016-17			2017-18 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
All Minerals		3		718159	3		727583	3		734539
Magnesite	t	3	54589	81792	3	67352	91216	3	64206	98172
Minor Minerals®		-	-	636367	-	-	636367	-	-	636367

Note: The number of mines excludes minor minerals.

@ Figures for earlier years have been repeated as estimates, because of non-receipt of data.

Table – 4: Principal Mineral-based Industries in Uttarakhand

Industry/plant	Capacity ('000 tpy)
Cement	
Ultratech Cement, Roorkee, Distt Haridwar (G). (erstwhile Jaypee group)	1100
Ambuja Cement, Roorkee, Distt Haridwar (G).	1000
Shree Cement, Roorkee, Distt Haridwar (G).	1800
DBM	
Almora Magnesite Ltd, Village-Matela, Distt Bageshwar.	24 (DBM, calcined & semi calcined magnesite)
Minerals & Refractories, Haldwani Pithoragarh.	3 (DBM)
Glass	
Hindustan National Glass & Industries Ltd, Rishikesh.	4395 TPD

G: Grinding Unit