

STATE REVIEWS



Indian Minerals Yearbook 2015 (Part- I)

54th Edition

**STATE REVIEWS
(Uttarakhand)**

(FINAL RELEASE)

**GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES**

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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 Iron ore in Nainital district during 2014-15. Details of exploration are furnished in Table-2.

Production

The value of mineral production (excludes atomic minerals and value for the month of February and March in respect of 31 minerals declared as minor mineral vide Gazette Notification dated 10.02.2015) in Uttarakhand at ₹ 85 crore in 2014-15 increased by 3% as compared to the previous year. Uttarakhand was the second leading producer of magnesite and talc/soapstone/steatite contributing 19% and 10% to the total output of the respective minerals in the country. During the year under review, 16% increase in production of magnesite and 3% decline in production of steatite was observed as compared to that of the previous year (Table-3).

The value of production of minor minerals was estimated at ₹ 64 crore for the year 2014-15.

The number of reporting mines in Uttarakhand in 2014-15 was 15 as against 17 in the previous year.

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, 2014-15

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Iron ore							
Nainital	Ramgarh group	-	-	-	-	-	G4 stage investigation for iron ore and sulphide mineralisation was taken up in the undifferentiated Ramgarh Group. The study area comprises litho assemblages belonging to Ramgarh, Jaunsar and Almora Group of rocks. Thin veins of iron oxides are observed within siliceous limestone of Betalghat Formation of Jaunsar Group in Paswara area. The mineralisation is localised and uneconomical. The work has been completed.

Table –1: Reserves/Resources of Minerals as on 1.4.2010/1.4.2013* : 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	810	305	1115	36	721	371	1946	981	199716	-	203771	204885	
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	9.50	-	182.60	182.60	
Zinc metal	'000 tonnes	-	-	-	-	-	-	151.21	87.99	27.63	-	266.83	266.83	
Limestone	'000 tonnes	-	1051	1051	5035	91872	59378	29486	164879	1191059	-	1541709	1542760	
Magnetite*	'000 tonnes	4287	818	3632	162	697	31277	58902	58756	73481	-	223274	232011	
Marble	'000 tonnes	-	-	-	-	-	-	-	-	6000	-	6000	6000	
Phosphorite/Rock phosphate*	tonne	-	-	-	3063503	-	1734370	2760000	-	16620513	-	24178386	24178386	
Silver*														
Ore	tonne	-	-	-	-	-	-	1600000	1400000	390000	-	3390000	3390000	
Metal	tonne	-	-	-	-	-	-	134.00	4.20	0.39	-	138.59	138.59	
Talc-steatite-soapstone#	'000 tonnes	24684	4845	8021	37550	4551	3876	4705	1524	23604	-	41487	79037	
Tungsten*														
Ore	tonne	-	-	-	-	-	-	-	138000	-	-	520000	658000	
Contained WO ₃	tonne	-	-	-	-	-	-	-	25	-	680	705	705	

Figures rounded off.

* Reserves/Resources as on 1.4.2013.

Declared as minor mineral vide Gazette notification dated 10.02.2015.

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**Table – 3 : Mineral Production in Uttarakhand, 2012-13 to 2014-15
(Excluding Atomic Minerals)**

(Value in ₹ '000)

Mineral	Unit	2012-13			2013-14			2014-15 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
All Minerals		34		889969	17		828023	15		853954
Dolomite [#]	t	-	-	-	-	12	1	-	5342	3900
Magnesite	t	2	52370	79215	2	44229	52962	2	51295	66855
Talc/soapstone/ steatite [#]	t	32	114322	174387	15	81504	138693	13	78735	146832
Minor Minerals [@]		-	-	636367	-	-	636367	-	-	636367

Note: The number of mines excludes minor minerals.

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

Declared as minor mineral vide Gazette Notification dated 10.02.2015.

Table – 4: Principal Mineral-based Industries in Uttarakhand

Industry/plant	Capacity ('000 tpy)
Cement	
Jaypee Cement, Roorkee, Distt. Haridwar (G).	1200
Ambuja Cement, Roorkee, Distt. Haridwar (G).	1000
Shree Cement, Roorkee, Distt. Haridwar (G).	1800
DBM	
Almora Magnesite Ltd, Haldwani Distt. Bageshwar.	30 (DBM, calcined & semi calcined magnesite)
Himalayan Magnesite Ltd, Pithoragarh.	20 (DBM) 3 (Calcined magnesite)
Magnesite & Minerals Ltd, Pithoragarh.	45 (DBM)
Glass	
Hindustan National Glass & Industries Ltd, Rishikesh.	340 TPD