

STATE REVIEWS



# Indian Minerals Yearbook 2013 (Part- I)

**52<sup>nd</sup> 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 gold around villages of Rudraprayag during 2012-13. Details of exploration are furnished in Table-2.

### Production

The production value of minerals in Uttarakhand at ₹85 crore in 2012-13 decreased by 8% as compared to the previous year. Uttarakhand was the second leading producer of magnesite and steatite contributing 25% and 10% in the total output of the respective minerals in country. During the year under review, 16% decrease in production was observed in case of magnesite and 39% for steatite as compared to that of the previous year (Table-3).

The production value of minor minerals was estimated at ₹64 crore for the year 2012-13.

The number of reporting mines in Uttarakhand in 2012-13 was 32 as against 37 in the previous year.

The index of mineral production in Uttarakhand (base 2004-05=100) was 94.6 in 2012-13 as compared to 137.7 in the previous year.

### Mineral-based Industry

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, 2012-13**

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>GSI</b>							
<b>Gold</b>							
Rudraprayag	Chopra- Bhatwari areas	-	-	-	-	-	Reconnaissance stage investigation (G-4) was carried out for gold and associated mineralisation within Garhwal Group to delineate the mineral potentiality of the area. The area comprises meta-volcano sedimentary sequence of Garhwal Group represented by quartz mica schist, chlorite schist, granite gneiss with interbands of mica schist, carbonaceous phyllite, dolomitic marble, and quartzite. Small old workings, retorts and slag have been recorded in Jagtoli and Agar areas. The sulphide mineralisation is manifested by occurrence of pyrite, chalcopyrite with few bornite specks. Dolomitic marble bands with sulphide bearing quartz-calcite veins have been delineated for a strike length of 500 m with width varying from 10-15 m. Analytical values of Au are <50 ppb, while Cu ranges from 193 ppm to 0.96%. Two feeble mineralised zones of copper have been delineated in Jagtoli-Agar area. The investigation has been completed.

**Table –1: Reserves/Resources of Minerals as on 1.4.2010 : Uttarakhand**

Mineral	Unit	Reserves				Remaining resources				Total resources (A+B)			
		Proved STD 111	Probable	Total (A)	Feasibility	Measured	Indicated	Inferred	Reconnaissance				
		STD 111	STD121	STD122	STD211	STD221	STD222	STD331	STD332		STD333	STD334	(B)
Asbestos	tonne	-	-	-	-	-	-	311	-	-	-	311	311
Barytes	tonne	-	-	-	-	-	-	-	25000	-	-	25000	25000
Copper													
Ore	'000 tonnes	-	-	-	-	-	-	3170	660	-	-	4220	4220
Metal	'000 tonnes	-	-	-	-	-	-	53.45	5.15	-	-	60.04	60.04
Dolomite	'000 tonnes	1985	1798	2.2	3805	224	1052	1946	199592	-	-	204144	207950
Graphite	tonne	-	-	-	-	-	-	10700	-	-	-	10700	10700
Gypsum	'000 tonnes	-	-	-	-	-	-	-	2012	-	-	2012	2012
Lead-zinc													
Ore	'000 tonnes	-	-	-	-	-	-	3170	660	-	-	5620	5620
Lead metal	'000 tonnes	-	-	-	-	-	-	138.85	9.50	-	-	182.60	182.60
Zinc metal	'000 tonnes	-	-	-	-	-	-	151.21	27.63	-	-	266.83	266.83
Limestone	'000 tonnes	-	1051	-	1051	5035	91872	29486	1191059	-	-	1541709	1542760
Magnesite	'000 tonnes	4424	818	3632	8874	162	697	58902	73481	-	-	223274	232148
Marble	'000 tonnes	-	-	-	-	-	-	-	6000	-	-	6000	6000
Phosphorite/Rock phosphate	tonne	-	-	-	-	3063503	-	1734370	2760000	-	-	24178386	24178386
Silver													
Ore	tonne	-	-	-	-	-	-	1600000	390000	-	-	3390000	3390000
Metal	tonne	-	-	-	-	-	-	134.00	0.39	-	-	138.59	138.59
Talc-steatite-soapstone	'000 tonnes	24684	4845	8021	37550	3228	4551	4705	23604	-	-	41487	79037
Tungsten													
Ore	tonne	-	-	-	-	-	-	138000	-	-	-	520000	658000
Contained WO <sub>3</sub>	tonne	-	-	-	-	-	-	-	25	-	-	680	705

Figures rounded off.

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**Table – 3 : Mineral Production in Uttarakhand, 2010-11 to 2012-13  
(Excluding Atomic Minerals)**

(Value in ₹'000)

Mineral	Unit	2010-11			2011-12			2012-13 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
<b>All Minerals</b>		<b>40</b>		<b>882009</b>	<b>37</b>		<b>922935</b>	<b>32</b>		<b>849296</b>
Dolomite	t	-	96	9	-	153	15	-	-	-
Magnesite	t	2	58341	74750	2	62373	78943	2	52369	67939
Steatite/talc/soapstone	t	38	172137	170883	35	160511	207610	30	98207	144990
Minor Minerals <sup>@</sup>		-	-	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)
<b>DBM</b>	
Almora Magnesite Ltd, Matela, Dist. Bageshwar.	24
Himalayan Hostambe, Pithoragarh.	20 (DBM) 3 (Calcined magnesite)
Magnesite & Minerals Ltd, Pithoragarh.	45
Orissa Industries Ltd, Chandak, Pithoragarh.	45
<b>Glass</b>	
Hindustan National Glass & Industries Ltd, Rishikesh.	340 TPD