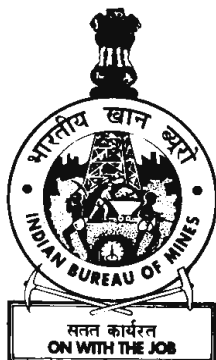


STATE REVIEWS



Indian Minerals Yearbook 2014 (Part- I)

53rd Edition

**STATE REVIEWS
(Uttarakhand)**

(ADVANCE RELEASE)

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

Indira Bhavan, Civil Lines,
NAGPUR – 440 001

PHONE/FAX NO. (0712) 2565471
PBX : (0712) 2562649, 2560544, 2560648
E-MAIL : cme@ibm.gov.in
Website: www.ibm.gov.in

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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 2013-14. Details of exploration are furnished in Table-2.

Production

The value of mineral production in Uttarakhand at ₹ 83 crore in 2013-14 decreased 7% as compared to the previous year. Uttarakhand was the second leading producer of magnesite and steatite contributing 23% and 9% 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 29% for steatite 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 2013-14.

The number of reporting mines in Uttarakhand in 2013-14 was 17 as against 34 in the previous year.

The index of mineral production in Uttarakhand (base 2004-05=100) was 78.6 in 2013-14 as compared to 103.9 in the previous year.

Table – 2: Details of Exploration Activities in Uttarakhand, 2013-14

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Iron ore							
Nainital	Ramgarh group	1:25000	85	-	-	158	Reconnaissance stage (G-4) investigation was carried out in undifferentiated Ramgarh Group in parts to delineate iron and sulphide mineral occurrences and assessment of economic potentiality of the area. The area comprises undifferentiated rocks of Proterozoic Ramgarh Group and Neoproterozoic Betalghat Formation and Nagthat Formation (Jaunsar Group). In the mapped area, the Ramgarh Group consists of granite gneisses and a sequence of quartzite with few thin bands of phyllite and mafic sills. The rocks of Nagthat Formation (Jaunsar Group) include quartzite. In the area, iron ore is manifested as patches of limonite lenses, specks of magnetite in the calcareous phyllite and as ferruginisation of the quartzite band. The results of 41 analyses of bedrock samples/stream sediment samples for Fe and Cu, Pb, Zn, etc. yielded very low values.

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	Pre-feasibility	Measured	Indicated	Inferred		Reconnaissance	Total	
		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	16620513	-	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 ₃	tonne	-	-	-	-	-	-	-	25	-	-	680	705

Figures rounded off.

STATE REVIEWS

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 – 3 : Mineral Production in Uttarakhand, 2011-12 to 2013-14 (P)
(Excluding Atomic Minerals)**

(Value in ₹ '000)

Mineral	Unit	2011-12			2012-13			2013-14 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
All Minerals		37		922935	34		889969	17		828051
Dolomite	t	-	153	15	-	-	-	-	-	-
Magnesite	t	2	62373	78943	2	52370	79215	2	44230	61529
Talc/steatite/ soapstone	t	35	160511	207610	32	114322	174387	15	80724	130155
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.

Table – 4: Principal Mineral-based Industries in Uttarakhand

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