

STATE REVIEWS



Indian Minerals Yearbook 2022

(Part- I)

61st Edition

**STATE REVIEWS
(Himachal Pradesh)**

(ADVANCE RELEASE)

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

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HIMACHAL PRADESH

Mineral Resources

The State is the sole holder of country's antimony ore and rock salt resources. Limestone and shale are the important minerals produced in the State. **Barytes** occurs in Sirmaur district; **limestone** in Bilaspur, Chamba, Kangra, Kulu, Mandi, Shimla, Sirmaur & Solan districts; and **rock salt** in Mandi district. Other minerals that occur in the State are **antimony** in Lahaul & Spiti districts; **gypsum** in Chamba, Sirmaur and Solan districts; **magnesite** in Chamba district; **pyrite** in Shimla district; and **quartz, quartzite & silica sand** in Una district Table - 1.

Exploration & Development

The exploration activities reported by GSI during 2021-22 are furnished in Table-2.

Production

Limestone and Salt (rock) were the principle minerals reporting production in the state. The value of minor minerals' production was estimated as ₹ 144 crores for the year 2021-22. There were 24 reporting mines in Himachal Pradesh in 2021-22. (Table-3).

Mineral-based Industry

The present status of each mineral-based industry is not readily available. However, the principal mineral-based industries in the Organised Sector in the State are furnished in Table - 4.

Table – 1: Reserves/Resources of Minerals as on 1.4.2020: Himachal Pradesh

Mineral	Unit	Reserves				Remaining Resources						Total resources (A+B)		
		Proved STD111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)
			STD121	STD122			STD221	STD222						
Antimony														
Ore	tonne	-	-	-	-	-	-	-	-	10588	-	10588	10588	
Metal	tonne	-	-	-	-	-	-	-	-	174	-	174	174	
Limestone	'000 tonnes	696165	249863	75984	1022012	78403	653158	21105	1529950	5079	3295168	14271	5597134	6619146
Magnesite	'000 tonnes	-	-	-	-	-	-	-	-	-	298	-	298	298
Pyrite	'000 tonnes	-	-	-	-	-	-	-	-	-	2560	-	2560	2560
Rocksalt	'000 tonnes	-	3860	-	3860	3360	940	4620	-	-	-	-	8920	12780

Figures rounded off.

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Table – 2 : Details of Exploration Activities in Himachal Pradesh, 2021-22

Agency/ Mineral/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq. km)	No. of boreholes	Meterage		
GSI							
Antimony							
Lahaul and Spiti	Bara Shigri glacier	1:12500	25	-	-	-	Large Scale Mapping on 1:12,500 scale covering an area of 25 sq. km has been carried out near Bara Shigri glacier, Lahaul and Spiti district, Himachal Pradesh. A total of 151 nos. channel samples were collected across the pegmatite veins, granite bodies and pegmatite bodies to evaluate the potentiality of antimony, associated base metals and REEs. Besides, 30 nos. samples for petrographic, 05 nos. samples for XRD and 10 nos. samples for EPMA, were also collected and studied. On the basis of field observations and analytical results, it is inferred that two phases of granite are exposed in the study area. The granite on the left bank of Bara Shigri nala is medium to coarse grained, comprising of quartz, plagioclase feldspar, K feldspar, tourmaline, muscovite, biotite. Encouraging lithium values i.e., > 100 ppm were obtained in 39 channel samples.
Gypsum							
Lahaul and Spiti	Giu and Hurling blocks	1:12500	25	-	-	-	A total of 25 sq. km. large scale mapping on 1:12,500 scale was carried out in parts of toposheets 52L/12 & 53I/9. Gypsum bands delineated in Nichala Chango area having strike length of approx. 175m with thickness of approx. 30m. The weighted average of gypsum (CaSO ₄ .2H ₂ O) in Nichala Chango is 97.75%. In Chango area, the strike length of gypsum band is approx. 450m with thickness of approx. 40 m. and weighted average of gypsum (CaSO ₄ .2H ₂ O) is 96.79%. In Sumdo area, the cumulative strike length of gypsum bands is approx. 500-600m with thickness of approx. 30m and weighted average of gypsum (CaSO ₄ .2H ₂ O) is 96.56%. On the basis of analytical data of borehole (HPLSGBH-01) in Giu block, the cumulative true thickness of the gypsum band is 52.45m with 85.60% weighted average of CaSO ₄ .2H ₂ O.

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**Table – 3 : Mineral Production in Himachal Pradesh, 2019-20 to 2021-22
(Excluding Atomic Minerals)**

(Value in ₹'000)

Mineral	Unit	2019-20			2020-21			2021-22 (p)		
		No. of mines	Quantity	Value	No. of mines	Quantity	Value	No. of mines	Quantity	Value
All Minerals		26		3932318	23		4191870	24		4410341
Limestone	'000t	25	12527	2746801	22	12018	2618878	23	13710	2966412
Salt (rock)	t	1	130	1447	1	486	14156	1	286	6125
Minor Minerals		-	-	1184070	-	-	1558836	-	-	1437804

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

Industry/plant	Capacity ('000 tpy)
Cement	
ACC Ltd, Gagal (Gaggal I & II), Distt Bilaspur	4400 2870 (Clincker)
Ambuja Cement, Suli, P.O. Darlaghat, Distt Solan	1600
Ambuja Cement, Nalagarh, Distt Solan	1500
Asian Concretes and Cements Pvt Ltd, Bir Palsi, Distt Solan	1300

(contd)

Table-4 (concl'd)

Industry/plant	Capacity ('000 tpy)
CCI Ltd, Rajban, Distt Sirmaur	250
Ultra Tech Cement Ltd, Bagga, Distt Solan	2540
UltraTech Cement Ltd, (Blending & Grinding), Bagheri Solan	2000

Note: Data, not readily available for cement industries on respective websites, is taken from Survey of Cement Industry & Directory