

STATE REVIEWS



Indian Minerals Yearbook 2013

(Part- I)

52nd Edition

**STATE REVIEWS
(Himachal Pradesh)**

(FINAL 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 rock salt resources. Barytes, limestone, salt (rock) and shale are the important minerals produced in the State. **Barytes** occurs in Sirmaur district; **limestone** in Bilaspur, Chamba, Kangra, Kulu, Mandi, Shimla, Sirmaur and Solan districts; and **rock salt** in Mandi district. Other minerals that occur in the State are **antimony** in Lahaul and Spiti districts; **gypsum** in Chamba, Sirmaur and Solan districts; **magnesite** in Chamba district; **pyrite** in Shimla district; and **quartz, quartzite and silica sand** in Una district (Table - 1).

Exploration & Development

ONGC continued its seismic survey and drilling for exploration of petroleum & natural gas and one exploratory well was drilled with meterage of 5.27 km during 2011-12. Details of exploration activities conducted by the GSI and other agencies for limestone during 2012-13 are furnished in Table - 2.

Production

The value of mineral production in Himachal Pradesh during 2012-13 at ₹255 crore increased by 18% as compared to that of the previous year.

Himachal Pradesh was the leading producer of shale accounting for 50% of the total production in the country and its production decreased by about 1% in 2012-13. Limestone is the principal mineral produced in the state which accounted for 62% in the total value of mineral production of the state in 2012-13. Its production increased by 21% as compared to that in the previous year. While no production of salt (rock) was reported during 2012-13 by the sole producing state of the country (Table-3).

The production value of minor minerals was estimated at ₹91 crore for the year 2012-13.

The number of reporting mines in the state was 19 in as against 25 in the previous year.

The index of mineral production in Himachal Pradesh (base 2004-05=100) was 180.8 in 2012-13 as compared to 150.1 in the previous year.

Table – 2 : Details of Exploration Activities in Himachal Pradesh, 2012-13

Agency/ Mineral/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Limestone							
Sirmaur & Solan	Upper Krol Formation	1: 25,000	126	-	-	175	Reconnaissance stage investigation (G-4) was carried out for delineation and assessment of limestone/dolomite bands in this area. Large Scale Mapping was carried out along with collection of Bed rock, channel and trench samples from Lower, Middle and Upper members of Kauriyala Formation of Saindhar Syncline, Nigalidhar and Korgai Synclines. The Saindhar Syncline and Korgai Syncline belong to Outer Krol belt and Inner Krol belt, respectively. Based on Bureau of Indian Standards specifications (BIS 10346:2004), two zones of Grade-II limestone have been delineated in Korgai Syncline. The investigation has been completed.

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Table – 2 : (Concl.)

Agency/ Minerals/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
Department of Industries Limestone							
Mandi	Dhara- Badhu	-	-	03	151.4	-	This deposit mainly includes Shali Group which is further divided into 8 formations- i) Ropri Formation comprised of brick red shale and silt stone with dolomite and salt deposits ii) Khaira Formation composed of pink & purple quartzarenite iii) Khatpul Formation comprised of dolomite with sporadic quartzarenite & thin shale iv) Sorghawari Formation comprised of pink and grey limestone with shale v) Tattapani Formation comprised of dolomite, grey phyllitic shale vi) Makri Formation comprised of grey, green, black and pink shale with thin bedded limestone vii) Parnali Formation comprised of cherty dolomite, grey limestone & white quartzarenite and Bandla Formation comprised of green & purple shale, slate, siltstone, sporadic siltstone & quartzarenite. No resources has been estimated.
Shimla	Gumma- Rohana Chopal tehsil	-	-	04	365.2	-	Gumma-Rohana limestone deposit mainly includes Deoban Group which is further divided into three formations- i) Tiontar Formation comprises of varying thickness of greenish shale with thin arenite interbeds ii) Bohar Formation comprised of stromatolitic limestone with buff-white dolomitic limestone iii) Ambota Formation comprised of oolitic limestone, limestone breccia and dolomitic limestone with grey to light green slate. Resources were not estimated.

Table – 1: Reserves/Resources of Minerals as on 1.4.2010 : Himachal Pradesh

Mineral	Unit	Reserves				Remaining resources					Total resources (A+B)			
		Proved STD111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)	
			STD121	STD122			STD221	STD222						
Antimony														
Ore	tonne	-	-	-	-	-	-	-	-	10588	-	10588	10588	
Metal	tonne	-	-	-	-	-	-	-	-	174	-	174	174	
Barytes	tonne	27288	-	12645	39933	-	12846	-	48904	12370	3000	-	77120	117053
Gypsum	'000 tonnes	-	-	-	-	-	-	1365	-	-	3081	-	4446	4446
Limestone	'000 tonnes	541555	226170	209638	977363	48410	44097	21220	1525202	1891	2830449	433	4471702	5449064
Magnesite	'000 tonnes	-	-	-	-	-	-	-	-	-	298	-	298	298
Pyrite	'000 tonnes	-	-	-	-	-	-	-	-	-	2560	-	2560	2560
Quartzite	'000 tonnes	25	-	16	41	16	-	-	-	-	-	-	16	57
Quartz-silica sand	'000 tonnes	1	-	7	8	99	-	-	-	-	2928	-	3027	3035
Rocksalt	'000 tonnes	10036	-	5990	16026	-	-	-	-	-	-	-	-	16026

Figures rounded off.

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**Table – 3 : Mineral Production in Himachal Pradesh, 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
All Minerals		24		2559392	25		2153054	19		2548604
Limestone	'000t	23	11927	1437928	25	10801	1196206	19	13051	1571745
Salt (rock)	t	1	1200	2971	-	-	-	-	-	-
Shale	t	-	1502873	55393	-	1535493	49648	-	1512507	69659
Minor Minerals@		-	-	1063100	-	-	907200	-	-	907200

*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.***Mineral-based Industry**

The principal large and medium-scale mineral-based industries in the organised sector in the State are given in Table - 4.

Table – 4 : Principal Mineral-based Industries in Himachal Pradesh

Industry/plant	Capacity ('000 tpy)
Cement	
ACC Ltd, Gagaj, Dist. Bilaspur.	4355
CCI Ltd, Rajban, Dist. Sirmaur	198
Grasim Industries, Sundernagar, Dist. Mandi.	2000
Gujarat Ambuja, Darlaghat, Dist. Solan.	1600
J. P. Industries Ltd, Bagga, Dist. Solan	2000
Baroh Sindh, Dist. Chamba.	2000
India Cement, Gumma, Dist. Shimla.	2000
Lafarge India, Alsindi, Dist. Mandi.	2000

(Contd.)

Table – 4 (Concl'd.)

Industry/plant	Capacity ('000 tpy)
Chemical	
Bhagwati Chemical Industries, Paonta Sahib, Dist. Sirmaur.	8.7 (Hydrate lime)
Doon Shivalik Mineral Industries, Bhagani, Paonta Sahib, Dist. Sirmaur.	5.5 (Hydrate lime)
Hind Chemical Industries, Badripur Paonta Sahib, Dist. Sirmaur.	13.2 (Hydrate lime)
Lime Chemicals Ltd, Paonta Sahib, Dist. Sirmaur.	35 (CaCO ₃)
M.I. Industries, Paonta Sahib, Dist. Sirmaur.	15 (Hydrate lime)
Superior Carbonate & Chemicals Ltd, Satiwala, Paonta Sahib, Dist. Sirmaur.	5 (CaCO ₃)
Vashisht Chemical Pvt Ltd, Kala Amb, Paonta Sahib, Dist. Sirmaur.	6.3 (CaCO ₃)

