

STATE REVIEWS



Indian Minerals Yearbook 2019

(Part- I)

58th 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

No mineral exploration activities reported by any State Government agency during 2018-19. However, GSI carried out exploration activity for base metal & phosphate in kullu & Sirmaur districts. Details are furnished in Table-2.

Production

Limestone was the principle mineral reporting production in the State. The value of minor mineral's production is estimated as ₹ 70 crores for the year 2018-19. There were 23 reporting mines in Himachal Pradesh in 2018-19. 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 – 2 : Details of Exploration Activities in Himachal Pradesh, 2018-19

Agency/ Mineral/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq. km)	No. of boreholes	Meterage		
GSI							
Base Metal							
Kullu	Naraul-Gobha Danala area	1:12500	10	-	-	-	During preliminary exploration (G3) for copper, cobalt and nickel mineralisation in Naraul, Danala and Gobha areas, an area of 10 sq.km was mapped on 1:12,500 scale. Mineralisation was observed in the form of stains and encrustations of malachite, azurite and specks of chalcopyrite. In bedrock and channel samples, copper value was found to range between 400 ppm and 0.40 %, cobalt between 10 ppm and 426 ppm and nickel value between 5 ppm and 124 ppm. The geophysical anomaly near old workings and already proved strike length (with wt. av. of Cu = 1.11 % Cu x 3.86 m and 180 m strike length) indicated that the area is favourable for drilling and a total of 500 m to 550 m strike length have been established.
Phosphorite							
Sirmaur	Lower Tal	1:12500	50.0	-	-	-	

(contd)

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Table-2 (Concl'd)

Agency/ Mineral/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							G4 stage reconnaissance survey for phosphorite was carried out in northern, southern and hinge zone of the Nigalidhar syncline in Lower Tal (Shaliyan Formation). On the basis of analytical data, four potential phosphorite mineralisation sections were identified: (i) Khill-Kanti-Mishwa section - Phosphatic chert band of strike length of approximately 2.9 km with average thickness of around 15 to 18 m. Partial analytical data showed value of P ₂ O ₅ ranging from 2% to 5% while in one samples it was 10.62%; (ii) Kathwar-Tipri section- the strike extension of this section is 225 m to 250 m with average thickness of about 18-20 m. In phosphatic chert, value of P ₂ O ₅ was found ranging from 2% to 5% and in two samples it was 15.32 and 9.19%; (iii) Kandi-Kiyana section - the strike extension of this section is 225 to 250 m with a maximum thickness of about 10-12 m; (iv) Pherog-Bakras section - the strike extension of this section is 180 to 200 m with a maximum thickness of about 15-20 m.

**Table – 3 : Mineral Production in Himachal Pradesh, 2016-17 to 2018-19
(Excluding Atomic Minerals)**

(Value in ₹'000)

Mineral	Unit	2016-17			2017-18			2018-19 (P)		
		No. of mines	Quantity	Value	No. of mines	Quantity	Value ^{\$}	No. of mines	Quantity	Value ^{\$}
All Minerals		22		2642047	21		3453441	23		3239248
Limestone	'000t	21	11009	2185480	20	11504	2466113	22	12027	2533830
Salt (rock)	t	1	-	-	1	47	421	1	17	46
Minor Minerals		-	-	456567	-	-	986907	-	-	705372

Note: The number of mines excludes minor minerals

\$ Excludes the value of Fuel minerals

Table – 1: Reserves/Resources of Minerals as on 1.4.2015: Himachal Pradesh

Mineral	Unit	Reserves			Remaining Resources					Total resources (A+B)				
		Proved STD111	Probable STD121 STD122	Total (A)	Feasibility STD211	Pre-feasibility STD221	Measured STD331	Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)		
Antimony														
Ore	tonne	-	-	-	-	-	-	-	-	-	10588	-	10588	10588
Metal	tonne	-	-	-	-	-	-	-	-	-	174	-	174	174
Barytes#	tonne	-	-	-	27288	12846	12645	48904	12370	3000	3081	-	117053	117053
Gypsum#	'000 tonnes	-	-	-	-	-	1365	-	-	-	3081	-	4446	4446
Limestone	'000 tonnes	555180	209851	69908	191300	327757	40840	1530937	26121	3234938	37339	5389231	6224169	6224169
Magnesite	'000 tonnes	-	-	-	-	-	-	-	-	298	-	-	298	298
Pyrite	'000 tonnes	-	-	-	-	-	-	-	-	2560	-	-	2560	2560
Quartzite#	'000 tonnes	25	-	16	16	-	-	-	-	-	-	-	16	57
Quartz-														
Silica sand#	'000 tonnes	1	-	7	8	99	-	-	-	2928	-	-	3027	3035
Rock salt	'000 tonnes	-	-	-	10035	-	5990	-	-	-	-	-	16025	16025

Figures rounded off.

Declared as Minor Minerals vide Gazette notification dated 10.02.2015.

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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 (Conclld)

Industry/plant	Capacity (‘000 tpy)
CCI Ltd, Rajban, Distt Sirmaur	250
Ultratech 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