

STATE REVIEWS



Indian Minerals Yearbook 2018

(Part- I)

57th Edition

**STATE REVIEWS
(Jammu & Kashmir)**

(FINAL RELEASE)

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

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JAMMU & KASHMIR

Mineral Resources

Jammu & Kashmir is the sole holder of country's borax, sapphire, and sulphur (native) resources and possesses 33% graphite, 23% marble and 14% of gypsum. Coal, gypsum and limestone are the important minerals produced in the State. **Coal** occurs in Kupwara district; **gypsum** in Baramulla & Doda districts; **limestone** in Anantnag, Baramulla, Kathua, Leh, Poonch, Pulwama, Rajauri, Srinagar & Udhampur districts; and **magnesite** in Leh & Udhampur districts.

Other minerals that occur in the State are **bauxite & china clay** in Udhampur district; **bentonite** in Jammu district; **borax & sulphur** in Leh district; **diaspore** in Rajouri & Udhampur districts; **graphite** in Baramulla district; **lignite & marble** in Kupwara district; **quartz & silica sand** in Anantnag, Doda & Udhampur districts; **quartzite** in Anantnag district; and **sapphire** in Doda district (Tables - 1 and 2).

Exploration & Development

The details of exploration carried out by GSI in the State during 2017-18 are furnished in Table - 3.

Production

Coal and limestone are the important minerals produced in Jammu & Kashmir State.

The value of minor minerals production was estimated at ₹ 213 crore for the year 2017-18 (Table-4).

There were 13 reporting mines in 2017-18 for the mineral limestone.

Mineral-based Industry

Jammu & Kashmir Cements Ltd, a State Government Undertaking operates a cement plant of 1.98 lakh tpy capacity at Khrew in Pulwama district. The Company also owns a small cement plant of 20,000 tpy capacity located at Wuyan in Srinagar district, besides two other tiny cement plants that have a total capacity of 39,000 tpy. Khyber Indus. (P) Ltd operates a cement plant of 3,30,000 tpy in the State. The State also has a 1,800 tpy capacity Unit that manufactures ceramic and refractory products in district Kathua. A 3,000 tpy capacity calcium carbide plant is situated at district Pulwama. J. K. Minerals Ltd has a plant of 30,000 tpy of DBM and 75,000 tpy of sized magnesite in Chipprian, Panthal, Udhampur in the state.

Table – 2 : Reserve/Resource of Lignite as on 1.4.2018: Jammu & Kashmir

(In million tonnes)				
District	Proved	Indicated	Inferred	Total
Total	-	20.25	7.30	27.55
Kupwara	-	20.25	7.30	27.55

Source: Coal Directory of India, 2017-18.

Table – 1 : Reserves/Resources of Minerals as on 1.4.2015 : Jammu & Kashmir

Mineral	Unit	Reserves				Remaining Resources				Total resources (A+B)	
		Proved STD 111	Probable		Total Feasibility STD211	Measured STD331	Indicated STD332	Inferred STD333	Reconnaissance STD334		Total (B)
			STD121	STD122							
Bauxite	'000 tonnes	-	-	-	-	1323	182	1220	-	2725	2725
Bentonite#	tonne	-	-	-	-	-	-	147400	-	147400	147400
Borax	tonne	-	-	-	-	-	-	-	74204	74204	74204
China clay#	'000 tonnes	-	-	-	-	-	2	28122	-	28124	28124
Diaspore#	tonne	-	-	-	-	-	566	711	-	1277	1277
Fire clay#	'000 tonnes	-	-	-	-	-	-	-	4914	4914	4914
Granite (Dimension Stone)#	'000 cu m	-	-	-	-	-	-	44570	40000	84570	84570
Graphite	tonne	-	-	-	-	-	-	1059520	61681035	62740555	62740555
Gypsum#	'000 tonnes	11383	153	442	11977	4602	9844	146914	2328	180610	192588
Limestone	'000 tonnes	443339	31917	79147	554404	54863	9008	1752569	207283	2088214	2642618
Magnesite	'000 tonnes	-	-	-	-	3210	740	150	45	4145	4145
Marble#	'000 tonnes	-	-	-	-	-	-	412381	2200	414581	414581
Quartzite#	'000 tonnes	1500	58	-	1558	-	-	9100	7380	16600	18158
Quartz- Silica sand#	'000 tonnes	-	-	-	-	-	-	3110	-	3110	3110
Sapphire	kg.	-	-	-	-	-	-	450	-	450	450
Sulphur (Native)	'000 tonnes	-	-	-	-	-	-	210	-	210	210

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Figures rounded off
Declared as Minor Mineral vide Gazette Notification dated 10.02.2015
Minor Minerals before Gazette Notification dated 10.02.2015

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Table-3 : Details of Exploration Activities in Jammu & Kashmir, 2017-18

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Metreage		
GSI							
Copper and REE							
Kathua	Bani areas	1:12500	50	-	-	150	Reconnaissance survey for copper and REE minerals was taken up in parts of Jamotha and Kaplas granites and its surrounding rocks by mapping 50 sq. km area on 1:12500 scale and 127 BRS, 26 PCS, 10 HM, 15 EPMA, 50 PTS, 30 nos. of soil samples and 19 stream sediment samples were collected.
Copper and associated minerals							
Ramban	Banihal-Shalgadali Hale Maidan areas	1:12500	50	-	-	-	Reconnaissance survey for copper and associated mineralisation was taken up in Cambrian sequence in and around Banihal-Shalgadali-Hale Maidan areas. Large-scale mapping of 50 sq. km on 1:12500 scale was carried out. Five old workings were observed from agglomerate and volcanic tuff near Village Dooligam and slag dumps were also observed in the downslope. Presence of malachite stains in the rocks of old workings near Dooligam, Banihal was also observed. Copper mineralisation is noticed at some places in quartz veins in Machal and Ramsu Formation, places which are very irregular in nature and range from a few millimetres to 1.27 m in width, the most common minerals found along these veins are chalcopyrite and bornite.

**Table – 4 : Mineral Production in Jammu & Kashmir, 2015-16 to 2017-18
(Excluding Atomic Minerals)**

Mineral	Unit	No. of mines	2015-16		No. of mines	2016-17		No. of mines	2017-18 (P)	
			Quantity	Value		Quantity	Value		Quantity	Value ^s
			(Value in `'000)							
All Minerals		6	2528688	10	2333915	13	2465664			
Coal	'000 t	-	13	-	10	-	-	14	-	-
Limestone	'000 t	6	1232	395375	10	1032	200602	13	1262	332351
Minor Minerals [@]		-	-	2133313	-	-	2133313	-	-	2133313

Note : The number of mines excludes Fuel Minerals and Minor Minerals

\$ Excluding Fuel Minerals

@ Figures for earlier years have been repeated as estimates, wherever necessary, because of non-receipt of data