

STATE REVIEWS



Indian Minerals Yearbook 2017

(Part- I)

56th 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 districts; **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 2016-17 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 2016-17 (Table-4).

There were 5 reporting mines in 2016-17 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 of sized Magnesite in Chipprian, Panthal, Udhampur in the state.

Table – 2 : Reserve/Resource of Lignite as on 1.4.2017: 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, 2016-17.

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 cum	-	-	-	-	-	-	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, 2016-17

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Metreage		
GSI							
REE							
Bani & Kathua	Loang, Sarthal areas	1:12000	55	-	-	-	Reconnaissance survey was taken up for REE and polymetallic mineralisation in Kaplas Granite and its surrounding metasedimentary rocks in Loang, Sarthal areas by large-scale mapping along with detailed mapping in Kaplas granite and its associated meta sedimentary rocks. The analytical results of the major parts of the samples are still awaited.
Limestone							
Leh and Kargil	Khangral- Lamayuru area	-	-	-	-	-	G4 stage reconnaissance survey for limestone of Zaskar basin of Khangral-Lamayuru area was conducted in the area. Limestone is thinly laminated to massive bedded type with thickness 10-20 m. Few beds are up to 40 m thick. During large-scale mapping, 55 blocks had been identified. The limestone of Khangral-Bodhkharbu-Haniskote-Lamayuru area has appreciable values of CaO but is comparatively low in MgO, SiO ₂ , Fe ₂ O ₃ , Al ₂ O ₃ , Va ₂ O ₃ , K ₂ O & R ₂ O ₃ (Al ₂ O ₃ +Fe ₂ O ₃) content. The average oxides value of Cao, SiO ₂ , MgO, Al ₂ O ₃ , Fe ₂ O ₃ and R ₂ O ₃ are 48.82%, 1.00%, 5.35%, 0.97%, 0.75% and 1.72% respectively.
Quartzite							
Udhampur	Latti, Basantgarh & Barrot area	1:12500 1:20000	50 2	- -	500 -	- -	G4 stage reconnaissance survey for quartzite in parautochthonous zone was carried out by large-scale mapping and detailed geological mapping. Bedrock samples collected from the area were sent for major and trace elements analysis. Analytical results are not yet received. The thickness of the quartzite band varies from 12 to 180 m with a strike length of 12 km. The quality of the quartzite will be known after getting analytical results.

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**Table – 4 : Mineral Production in Jammu & Kashmir, 2014-15 to 2016-17
(Excluding Atomic Minerals)**

(Value in `'000)

Mineral	Unit	No. of mines	2014-15		No. of mines	2015-16		No. of mines	2016-17 (P)	
			Quantity	Value		Quantity	Value		Quantity	Value ^s
All Minerals		8		2187507	10		2556288	9		2394548
Coal	'000t	4	13	27600	4	13	27600	4	10	-
Gypsum	t	2	28694	8608	-	-	-	-	-	-
Limestone	'000t	2	130	17986	6	1232	395375	5	825	261235
Minor Minerals [@]		-	-	2133313	-	-	2133313	-	-	2133313

Note : The number of mines excludes minor minerals

\$ Excluding fuel minerals

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