

STATE REVIEWS



# Indian Minerals Yearbook 2015

(Part- I)

**54<sup>th</sup> Edition**

**STATE REVIEWS  
(Sikkim)**

**(FINAL RELEASE)**

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

Indira Bhavan, Civil Lines,  
NAGPUR – 440 001

PHONE/FAX NO. (0712) 2565471  
PBX : (0712) 2562649, 2560544, 2560648

E-MAIL : [cme@ibm.gov.in](mailto:cme@ibm.gov.in)  
Website: [www.ibm.gov.in](http://www.ibm.gov.in)

**July, 2017**

## SIKKIM

### Mineral Resources

The important mineral resources of the State are **copper-lead-zinc** and **silver**, reported in Bhotang, Rangpo and Dikchu in East Sikkim district. Occurrences of other minerals reported in the State include: **dolomite**, **quartzite** and **talc/steatite/soapstone** in West Sikkim district; **limestone** in North Sikkim district and **marble** in East Sikkim and North Sikkim districts (Table -1). The reserve/resources of coal and the coalfield located in Sikkim are given in Table - 2.

### Exploration & Development

Details of exploration activities conducted by GSI are furnished in Table-3.

### Production

No mineral production (except minor minerals) was reported in 2014-15. The value of production of minor minerals was estimated at ₹ 188 lakh for the year 2014-15.

### Mineral-based Industry

SMC, a joint venture of Government of Sikkim and Government of India, was established for the purpose of development of Bhotang polymetallic ore deposit at Rangpo. Sikkim's Mines & Geology Department had set up a pilot dimension rock cutting unit and pilot lime making unit to ascertain the feasibility of setting up of commercial lime plant and dimension rock cutting plant in the State. A ferro alloys plant, namely, Akshay Ispat & Ferro Alloys Ltd with an installed capacity of 6,000 tpy is located at Mamring, South Sikkim district. The present status of these industries is not available.

**Table – 2 : Reserves/Resources of Coal as on 1.4.2015 : Sikkim**

(In million tonnes)				
Coalfield	Proved	Indicated	Inferred	Total
Total/Rangit Valley	-	58.25	42.98	101.23

*Source: Coal Directory of India, 2014-15.*

**Table – 3 : Details of Exploration Activities in Sikkim, 2014-15**

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>GSI</b>							
<b>Limestone/dolomite</b>							
South & West Sikkim	Namchi, Nayabazar & Bijanbari Areas	-	-	-	-	-	G4 stage investigation for dolomite was taken up. Analytical results of the dolomites indicate CaO with a maximum value of 30.4% and minimum of 14.73% and an average of 24.68% and MgO with minimum value of 11.75% and maximum value of 20.54% and an average of 16.83%. All the dolomite samples have high LOI values with an average of 38.

**Table – 1: Reserves/Resources of Minerals as on 1-04-2010/1.4.2013\* : Sikkim**

Mineral	Unit	Reserves				Remaining Resources				Total Resources (A+B)		
		Proved STD 111	Probable STD121 STD122	Total Feasibility (A)	Pre-feasibility STD221 STD222	Measured STD331	Indicated STD332	Inferred STD333	Reconnaissance STD334		Total (B)	
Copper*												
Ore	000 tonnes	-	-	-	445	63	300	-	150	-	958	958
Metal	000 tonnes	-	-	-	7.86	0.91	8.47	-	4.23	-	21.47	21.47
Dolomite**	000 tonnes	-	-	-	-	-	-	-	2756	-	2756	2756
Lead-Zinc*												
Ore	000 tonnes	-	-	-	436	64	300	-	150	-	950	950
Lead metal	000 tonnes	-	-	-	6.9	1.68	-	-	-	-	8.58	8.58
Zinc metal	000 tonnes	-	-	-	12.88	3.14	3	-	1.05	-	20.07	20.07
Limestone	000 tonnes	-	-	-	-	-	-	-	2380	-	2380	2380
Marble	000 tonnes	-	-	-	-	-	-	-	2382	-	2382	2382
Quartzite#	000 tonnes	-	-	-	-	-	-	675	16444	-	17119	17119
Silver*												
Ore	tonne	-	-	-	435843	63780	300000	-	150000	-	949623	949623
Metal	tonne	-	-	-	15.25	0.04	27.6	-	13.8	-	56.69	56.69
Talc/steatite/ soapstone#	000 tonnes	-	-	-	-	60	-	-	-	-	60	60

Figures rounded off.

\* Reserves/Resources as on 1.4.2013.

# Declared as minor mineral vide Gazette notification dated 10.2.2015.