

STATE REVIEWS



Indian Minerals Yearbook 2015 (Part- I)

54th Edition

**STATE REVIEWS
(Mizoram & Nagaland)**

(FINAL RELEASE)

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

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July, 2017

MIZORAM

Mineral Resources

Occurrences of lignite, sandstone and pyrites are reported from the State. Major deposits of economic importance have not been reported so far in the State.

Exploration & Development

During 2014-15, National Oil Companies (NOC) conducted geo-physical survey for petroleum & natural

gas. Details of exploration activities conducted by State DGM during 2014-15 are furnished in Table-1.

Production

No mineral production (except minor minerals) was reported from Mizoram during 2014-15. The value of production of minor mineral was estimated at ₹ 215 lakh for the year 2014-15.

Table – 1: Details of Exploration Activities in Mizoram, 2014-15

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks
		Scale	Area (sq km)	No. of boreholes	Meterage		
State Directorate of Geology and Mining							
Sandstone & River Sand							
Aizawal	-	-	-	-	-	-	Reconnaissance survey only.

NAGALAND

Mineral Resources

Important mineral occurrences in the State are: **coal** in Borjan, Jhanzi-Disai, Tiesang and Tiru Valley Coalfields; **iron ore (magnetite), cobalt, dunite** and **nickeliferous chromite** in Tuensang district and **limestone** in Phek and Tuensang districts (Table-1). The various coalfields and their reserves/resources are given in Table - 2.

Exploration & Development

Details of exploration activities conducted by GSI and other agencies during 2014-15 are furnished in Table-3.

Production

No mineral production (except minor minerals) was reported from Nagaland during 2014-15. The value of production of minor minerals was estimated at ₹ 18 lakh for the year 2014-15.

Table – 1 : Reserves/Resources of Minerals as on 1.4.2010/1.4.2013* : Nagaland

Mineral	Unit	Reserves		Remaining Resources				Total Resources (A+B)
		Proved STD111	Total (A)	Indicated STD332	Inferred STD333	Reconnaissance STD334	Total (B)	
Cobalt ore*	million tonnes	-	-	-	-	5	5	5
Chromite*	'000 tonnes	-	-	-	3200	-	3200	3200
Copper*	Ore	-	-	-	2000	-	2000	2000
	Metal	-	-	-	15	-	15	15
Iron ore* (Magnetite)	'000 tonnes	-	-	5280	-	-	5280	5280
Dunite [#]	'000 tonnes	-	-	-	4800	-	4800	4800
Limestone	'000 tonnes	825	825	1010000	27000	-	1037000	1037825
Nickel ore*	million tonnes	-	-	-	5	-	5	5

Figures rounded off.

* Reserves/Resources as on 1.4.2013.

[#] Declared as minor mineral vide Gazette notification dated 10.2.2015.

Note: The proved and indicated balance recoverable reserves of Petroleum crude and Natural gas in the State as on 01.04.2015 are 2.69 million tonnes and 0.12 billion cu m, respectively.

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

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
Total	8.76	-	306.65	315.41
Borjan	5.50	-	4.50	10.00
Jhanzi-Disai	2.00	-	0.08	2.08
Tiensang	1.26	-	2.00	3.26
Tiru Valley	-	-	6.60	6.60
DGM	-	-	293.47	293.47

*Source: Coal Directory of India, 2014-15.***Table – 3: Details of Exploration Activities in Nagaland, 2014-15**

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Chromite							
Phek	In and around Waziho, Ziphu, Moki, Satuza, Phor, Sutsu, Laluri, Washelo villages and Shilloi Lake (Lacham)	-	-	-	-	36	G4 stage investigation for chromium and associated base metals was taken up in the 'ophiolite belt'. The lithounits of the ophiolite suites are peridotite, gabbro, basalt, chert and limestone. The ophiolite suite of rocks is bounded at its west by shales of Disang Group, while phyllitic ocean pelagic sediment occurs in the eastern part. The general trend of lithounits is in N-S direction. Surface indications for sulphide mineralisation are recorded in Moki village. Malachite staining, disseminations of chalcopyrite and pyrite are recorded for about 7 m with 3-4 m in width, along a fracture plane within peridotite. A sample collected from northwestern extension area of this zone analysed 3.662% Cu. Analytical results of 36 nos. groove samples collected gave Cu values 353 ppm to 21,711 ppm. The work will continue in FS 2015-16.
Mineral Exploration Corporation Ltd							
Limestone							
Kiphire	Mimi Pyakatsu block	1:1000	4.5	05	531.5	475	Total 167.77 million tonnes of limestone resources (332 & 333) with average grade: SiO ₂ - 1.11%, CaO - 55.93%, MgO - 0.39%, Fe ₂ O ₃ - 0.39%, Al ₂ O ₃ - 0.28% and LOI - 42.42% were estimated.