

STATE REVIEWS



Indian Minerals Yearbook 2018

(Part- I)

57th Edition

**STATE REVIEWS
(Mizoram & Nagaland)**

(FINAL RELEASE)

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

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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

No exploration activities was reported to be carried out by any Central/State Government agency during 2017-18 in the State.

Production

No mineral production (except minor minerals) was reported from Mizoram during 2017-18. The value of minor minerals production was estimated at ` 168 lakh for the year 2017-18.

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 provided in Table-2.

Exploration & Development

Details of exploration activities conducted by GSI and DGM Nagaland during 2017-18 for chromite, nickel, copper & associated base metals are furnished in Table-3.

Production

No mineral production (except minor minerals) was reported from Nagaland during 2017-18. The value of minor minerals production was estimated at ` 18 lakh for the year 2017-18.

Table – 1 : Reserves/Resources of Minerals as on 01-04-2015: Nagaland

Mineral	Unit	Reserves				Remaining Resources					Total resources (A+B)		
		Proved STD111	Probable STD121	Probable STD122	Total (A)	Feasibility STD211	Pre-feasibility STD221	Measured STD331	Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)
Limestone	'000 tonnes	-	-	-	-	825	-	-	1005500	745875	-	1752200	1752200
Dunite#	'000 tonnes	-	-	-	-	-	-	-	-	4800	-	4800	4800
Copper													
Ore	'000 tonnes	-	-	-	-	-	-	-	-	2000	-	2000	2000
Metal	'000 tonnes	-	-	-	-	-	-	-	-	15	-	15	15
Chromite	'000 tonnes	-	-	-	-	-	-	-	-	3200	-	3200	3200
Cobalt ore	million tonnes	-	-	-	-	-	-	-	-	-	5	5	5
Iron ore													
(Magnetite)	'000 tonnes	-	-	-	-	-	-	-	5280	-	-	5280	5280
Nickel ore	million tonnes	-	-	-	-	-	-	-	-	5	0	5	5

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

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Table – 2 : Reserves/Resources of Coal as on 1.4.2018 : Nagaland

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
Total	8.76	-	401.69	410.45
Borjan	5.50	-	4.50	10.00
Jhanzi-Disai	2.00	-	95.12	97.12
Tiensang	1.26	-	2.00	3.26
Tiru Valley	-	-	6.60	6.60
DGM	-	-	293.47	293.47

*Source: Coal Directory of India, 2017-18.***Table – 3: Details of Exploration Activities in Nagaland, 2017-18**

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Coal							
Mokokchung	Alongtaki	1:10000	50	-	-	-	Reconnaissance survey for coal was taken up around Alongtaki in Mokokchung district. Large-scale geological mapping of 50 sq. km area was carried out on 1:10000 scale. Coal occurrences were reported in the form of seams, lenses, streaks and pockets within sandstones of Jenam, Bhuban and Tipam. The notable coal seams observed in the Jenam Formation were (i) Near Alosi Tsu with a strike length of 3.3 m and thickness of about 12 cm, (ii) East of Village Longtho with a strike length of 2 m and 0.05 m thickness, (iii) Near Tayeba Tsu with a strike length of 8 m and thickness of 15 m and (iv) About 4 m thick on eastern bank of River Desso with a strike length of 20 m. Besides, a coal layer with a strike length of 7 m and thickness varying from 0.01 to 0.45 m was also observed along the road transect between Teyaba Tsu and Alongtaki village.
DGM		-	-	-	1.347 lakh m	-	On behalf of Ministry of Coal, DGM, Nagaland has also carried out promotional exploration in one block and CMPDIL in two coal blocks. A total of 1.347 lakh metre of promotional (regional) drilling were undertaken for establishing coal and lignite during 2017-18 through, CMPDI.

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Table-3 (Concl'd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
Chromite Phek	Naga Hills Ophiolite	-	1.50	-	-	-	Preliminary exploration for chromium, nickel, copper and associated base metal was taken up in Naga Hills Ophiolite, Phek district. A total of 1.5 sq. km area were studied. The litho units exposed in the study area were peridotite, serpentinised peridotite, basalt, polymictic conglomerate and oceanic pelagic sediment. The analytical results showed Cr values ranging from 175 to 3,556 ppm and Ni from 15 to 2,966 ppm. Magnetic survey of 10.4 lkm indicated four zones of moderate to high anomaly over cumulate and/or serpentinite. The anomaly value ranged from -1809 nT to 2174 nT.