

STATE REVIEWS



# Indian Minerals Yearbook 2020

(Part- I)

59<sup>th</sup> Edition

**STATE REVIEWS  
(Mizoram & Nagaland)**

(ADVANCE RELEASE)

**GOVERNMENT OF INDIA  
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**February, 2023**

**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 2019-20 in the State.

**Production**

No mineral production (except minor minerals) was reported from Mizoram during 2019-20. The value of minor mineral's production was estimated at ₹ 168 lakh for the year 2019-20.

**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 furnished in Table-2.

**Exploration & Development**

Details of exploration activities conducted by GSI during 2019-20 for coal are furnished in Table-3.

**Production**

No mineral production (except minor minerals) was reported from Nagaland during 2019-20. The value of minor mineral's production was estimated at ₹ 18 lakh for the year 2019-20.

**Table – 2 : Reserves/Resources of Coal as on 1.4.2020 : Nagaland**

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
<b>Nagaland</b>	<b>8.76</b>	<b>21.83</b>	<b>415.83</b>	<b>446.42</b>
Borjan	5.50	–	4.50	10.00
Jhanzi-Disai	2.00	21.83	109.26	133.09
Tiensang	1.26	–	2.00	3.26
Tiru Valley	–	–	6.60	6.60
DGM	–	–	293.47	293.47

*Source: Coal Directory of India, 2019-20.*

**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 – 3: Details of Exploration Activities in Nagaland, 2019-20**

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>GSI Coal</b>							
Wokha	Baghty, Sanis, Chudi and Lotsu, area,	-	-	-	-	-	Reconnaissance survey (G4) for coal around Baghty, Sanis, was carried out. In the study area, coal occurred as streaks, lenses and pockets in Jenam, Renji and Girujan Clay Formations; workable coal seams were observed mostly in Jenam Formation of Barail Group. On the basis of Large Scale Mapping, a coal seam was established within Jenam Formation with lateral thickening, thinning and pinching at places. The strike continuity of the coal seam at places was not continuous due to faulting as well as lack of exposure and thick vegetation. The excavation/exploration of coals by the locals for their use has exposed several coal seams in the area. The coal seam located to the west of Yonchucho and Longtsung seems to be the most promising in the study area with a strike length of about 40 m and a thickness of about 1.9 m. The coal observed from the Jenam Formation in the area was of bright with black to brownish in colour, hard in nature with subvitreous to vitreous luster and showed conchoidal fracture and at places the coals also showed dull and lumpy character with loosely packed nature. Qualitatively, the coal in the study area have moderate to high moisture with ash content ranging from 2.67 to 14.23 % and 4.43 to 74.81 % with Gross Calorific Value (GCV) ranges from 1,065 to 6,190 (kcal/kg). The coal is of non-coking grade with grade ranging from 'G' to 'B'. The Tertiary coal of the study area revealed high sulphur content ranging from 1.35 to 6.55 % with an average of 4.33 %.