

STATE REVIEWS



Indian Minerals Yearbook 2017

(Part- I)

56th Edition

**STATE REVIEWS
(Arunachal Pradesh)**

(FINAL RELEASE)

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MINISTRY OF MINES
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March, 2018

ARUNACHAL PRADESH

Mineral Resources

The most important mineral resource of the State is **petroleum & natural gas** and its chief occurrence is reported in Ningru and Dam Duma areas. These hydrocarbon deposits are located in the Assam Arakan Fold Belt (AAFB) and Upper Assam basin in the State. The State also reports resources of **coal** in Namchick Namphuk and Miaobum Coalfields; **Copper** in East Kameng district **dolomite** in West Kameng district; **fuller's**

earth in Tirap district; **graphite** in Lohit, East Siang and Upper Subansiri districts; **limestone** in Dibang Valley, Lohit, East Siang and Upper Subansiri districts and **quartzite** in West Kameng district (Tables-1 and 2).

Exploration & Development

Exploration activities carried out by GSI for gold, graphite and iron ore during the year 2016-17 which is furnished in Table-3. National Oil Companies (NOC) continued their operations for exploration of oil and gas in the State during 2016-17.

Table – 1 : Reserves/Resources of Minerals as on 1.4.2015 : Arunachal Pradesh

Mineral	Unit	Total Reserves (A)	Remaining resources			Total resources (A+B)
			Indicated STD332	Inferred STD333	Reconnaissance STD334	
Copper						
Ore	'000 tonnes	-	-	-	0.02	0.02
Metal	'000 tonnes	-	-	-	10	10
Dolomite [#]	'000 tonnes	-	204	77633	-	77837
Fuller's earth ^{##}	tonne	-	10700	20000000	-	20010700
Graphite	tonne	-	-	-	72758257	72758257
Limestone	'000 tonnes	-	49220	433575	1	482795
Quartzite [#]	'000 tonnes	-	-	5270	-	5270

Figures rounded off.

Declared as Minor Mineral vide Gazette Notification dated 10.02.2015.

##: Minor Mineral before Gazette Notification dated 10.02.2015.

Table – 2 : Reserves/Resources of Coal as on 1.4.2017: Arunachal Pradesh

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
Total	31.0	40.0	19.0	90.0
Namchik-Namphuk	31.23	40.11	12.89	84.23
Miaobum	-	-	6.00	6.00

Source: Coal Directory of India, 2015-16 & 2016-17.

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Table – 3 : Details of Exploration Activities in Arunachal Pradesh, 2016-17

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI							
Gold							
Lower Subansiri	Around Ampuli area	1:12500	50	-	-	-	G4 stage search for gold and associated mineralisation in the metasedimentary sequence of Bomdila Group around Ampuli, has been carried out by large-scale mapping. A zone of oxidization, limonitisation and gossanisation showing variegated colours rich in magnetite is observed within quartzite (containing thin bands of quartz mica schist) near Ampuli village on Pitapool – Sagali road section. The zone is about 20 to 30 m wide (outcrop width) and about 1 km long. A 30 m wide calc silicate band having specks and streaks of magnetite has been observed near Depo village in a road section. Samples have been collected from this zone for the possibility of any gold or other metal mineralisation.
Graphite							
Upper Subansiri	Around Taliha	1:12500	50	-	-	-	G3 stage preliminary exploration for graphite by large-scale mapping and detailed mapping have been carried out. Graphite schist occurs as lenses and pockets. The patchy outcrops of graphite schist are exposed generally on the hill slopes and cliffs. Three discontinuously exposed lenses of quartz schist hosting graphite schist were delineated in the Taliha-Dupit-Dochuk area as small isolated patches with strike length of 15 - 60 m, which extends discontinuously up to 1.3 km along the strike length varying from 15-25 m. The third lens L-3 occurs at Sichi river in Pakba area and it extends up to 20 m along the strike length. The minimum true thickness is 1.8 m & maximum 6.8 m. Detailed mapping in Dupit area has indicated an enriched zone of graphite schist of over 400 m length with an average width of 20 m. Graphite schist occurs as thin 1-2 mm bands within quartz schist. It is well foliated and lineated having foliation parallel silica veins and shows ferruginisation at places.
		1:2000	0.40	-	-	-	

(Contd.)

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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		
Coal							
Changlang	Namchik- Namphuk Coalfield,	-	50	-	-	-	G4 stage reconnaissance survey was carried out for coal Geological mapping, to delineate and assess the coal potentiality of the eastern extension of Namchik-Namphuk Coalfield, 5 coal seams have been recorded in the eastern extension of the Namchik-Namphuk coalfield. The bands range from 0.5 to 6.0 m in thickness. The coal seam varies from <0.5 m in thickness to 6 m.

Production

Petroleum (crude) and natural gas (ut.) were the important mineral items produced in Arunachal Pradesh.

The value of minor minerals' production was estimated at ` 34 crore for the year 2016-17 (Table - 4).

**Table-4 : Mineral Production in Arunachal Pradesh, 2014-15 to 2016-17
(Excluding Atomic Minerals)**

		(Value in `'000)								
Mineral	Unit	2014-15			2015-16			2016-17 (p)		
		No. of mines	Quantity	Value ^{\$}	No. of mines	Quantity	Value ^{\$}	No. of mines	Quantity	Value ^{\$\$}
All Minerals		1		428100	-		337209	-		337209
Coal	'000t	1	-	-	-	-	-	-	-	-
Natural Gas (ut.)	m c m	-	34	-	-	30	-	-	28	-
Petroleum (crude)	'000t	-	76	-	-	57	-	-	55	-
Minor Minerals [@]		-	-	428100	-	-	337209	-	-	337209

Note : The number of mines for petroleum (crude), natural gas (utilised) and minor minerals are not available.

\$ Excludes the value of Petroleum (crude) & Natural Gas (ut.) \$\$ Excluding fuel minerals.

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