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Arunachal Pradesh Innovation & Investment Park (APIIP)

Niti Vihar, Itanagar
Arunachal Pradesh 791 111

The APIIP was established by Investment Division aiming to facilitate investors with comprehensive support and to develop a vibrant investment and entrepreneurial ecosystem in the state. APIIP officers also look after Ease of Doing Business (EoDB) and Investment Policy inputs for better synergy. The APIIP was inaugurated on 14th August 2021 Hon'ble Chief Minister and Deputy Chief Minister.



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ARUNACHAL *Rising*

YOUR NEXT INVESTMENT DESTINATION

The Next Hydrocarbon Destination



Investment Division, Government of Arunachal Pradesh

Arunachal

Investment Advantages

Largest state in North East Region

Gateway to ASEAN countries

Expanding Connectivity

Favourable Policies



Ease of Doing Business (EoDB) in Arunachal

EODB

Single Window
Clearance

License &
clearances /
NOCs /
Payment of
Fees Online
without
physical
touchpoints

EoDB Act
passed

Central
Inspection
System notified



"We shall take every step needed to facilitate investment in hydrocarbon sector in Arunachal, as I strongly believe this will be the economic backbone of our state as well as the nation in the time to come."

- Pema Khandu, Hon'ble Chief Minister

Arunachal

Governance & Policy Advantages



Focus Sectors



Agro-Forest & Food Processing



Agri-Horti Powerhouse of North East India

with high quality produce, over 100,000 MT market surplus and scope of expansion in 86% of cultivable area.



Tourism



"Curabitur suscipit placerat mi"

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur vel scelerisque leo.



Oil, Gas & Minerals



"The Next Hydrocarbon Destination"

18% of India's hydrocarbon reserves in the surrounding belt with 73% of resources under 'yet to discover'



Hydropower

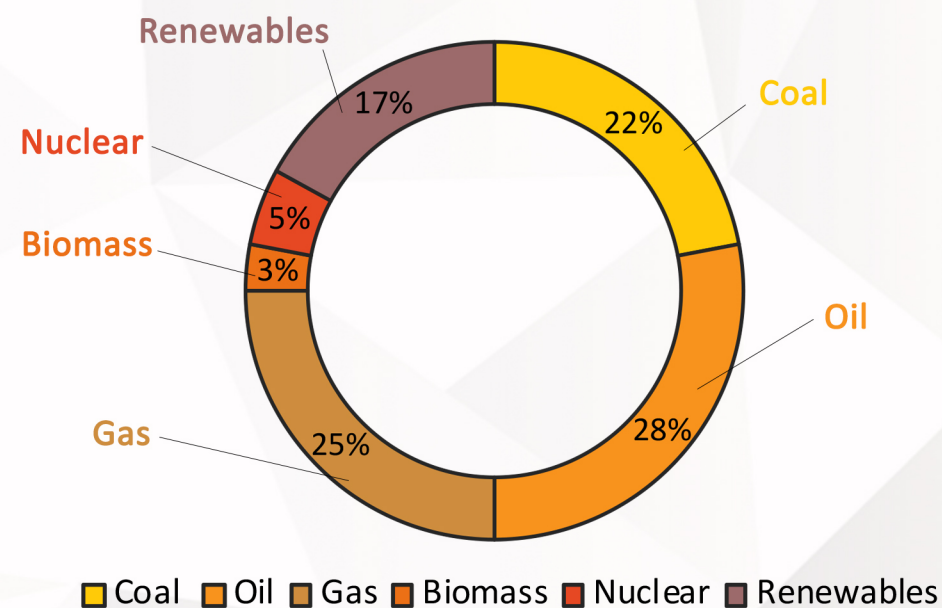


"India's Hydropower Hub"

with over 40% of India's hydropower potential.



World Primary Energy Demand by Fuel, 2040



Energy Demand and Capacity in India

High Demand

- Third largest energy consumer and growing to be the first
- Natural Gas Consumption to grow at 9% till 2024, total estimated growth is 25 Billion Cubic Meters (BCM)
- Energy demand to grow at a rate of 4.2% from 2017-2040

Increased Capacity

- Estimated hydrocarbon resources at 41.87 Billion Metric Ton
- Second-largest refiner in Asia after China, refinery capacity increased to 247.57 MTPA
- Rapid infrastructure expansion – first LNG Plant in Nagpur in 2021

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Governance & Policy Advantages



Low Power Tariffs in the range of Rs 3.35 to 4.3 per kWh.



Economically available land at low rates and lease for 50 years
Private land lease up to 99 years



Blessed with good water access.



Peaceful & stable law and order environment



Attractive incentives & subsidies



Single Window System inline with EoDB norms



Front-ended power subsidies up to Rs 2 Cr INR per annum - one of the highest in the country.



60% of the population in age group of 15-59 years and proficient in both Hindi and English



Forest Clearance will be provided as per the timelines of the Forest (Conservation) Rules 2003 as per the timelines below.

Activity Level	Number of Days for Area in Hactares (Ha)			
	5 Ha	5- 40 Ha	40 – 100 Ha	> 100 Ha
Nodal Officer	10	10	10	10
DCF	30	30	45	60
District Collector				
CF	10	10	30	30
Nodal Officer/PCCF	10	10	25	30
State Govt	30	30	30	30
Transit Period	20	20	20	20
Total Days	110	120	160	180

Policy Incentives @ Arunachal

✓ Interest Subsidy on Plant, Machinery and Working Capital Loan

✓ Income Tax Reimbursement

✓ CGST & SGST Partial Exemption

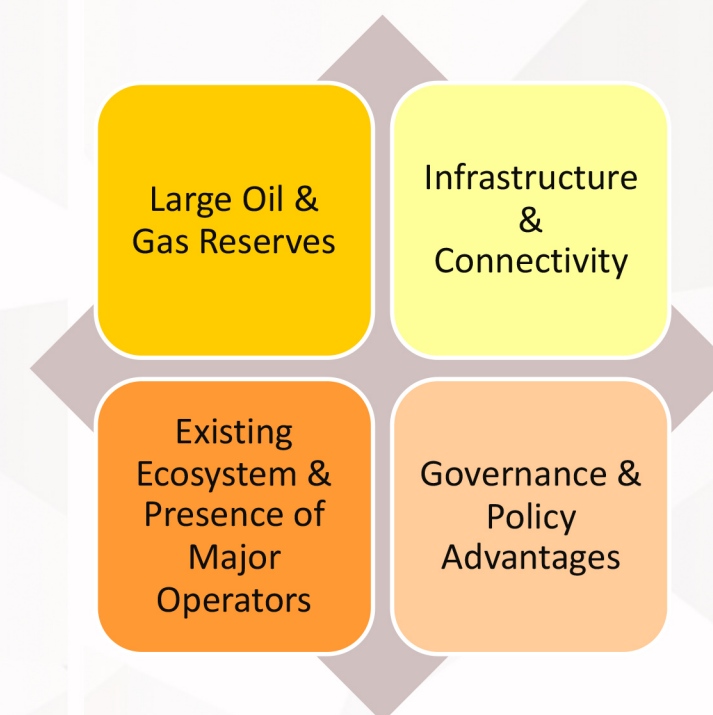
✓ Capital Investment Subsidy

✓ Stamp Duty & Registration Fees

✓ Insurance and employment incentives

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Snapshot of Hydrocarbon Sector



18 Existing Oil Fields

61.4 KM Proposed natural gas pipeline length from Kumchai Oil Field to Kusijan

2-4 MMT PA Oil Refinery Potential in Arunachal

18% Share of India's total hydrocarbon reserve in the surrounding belt

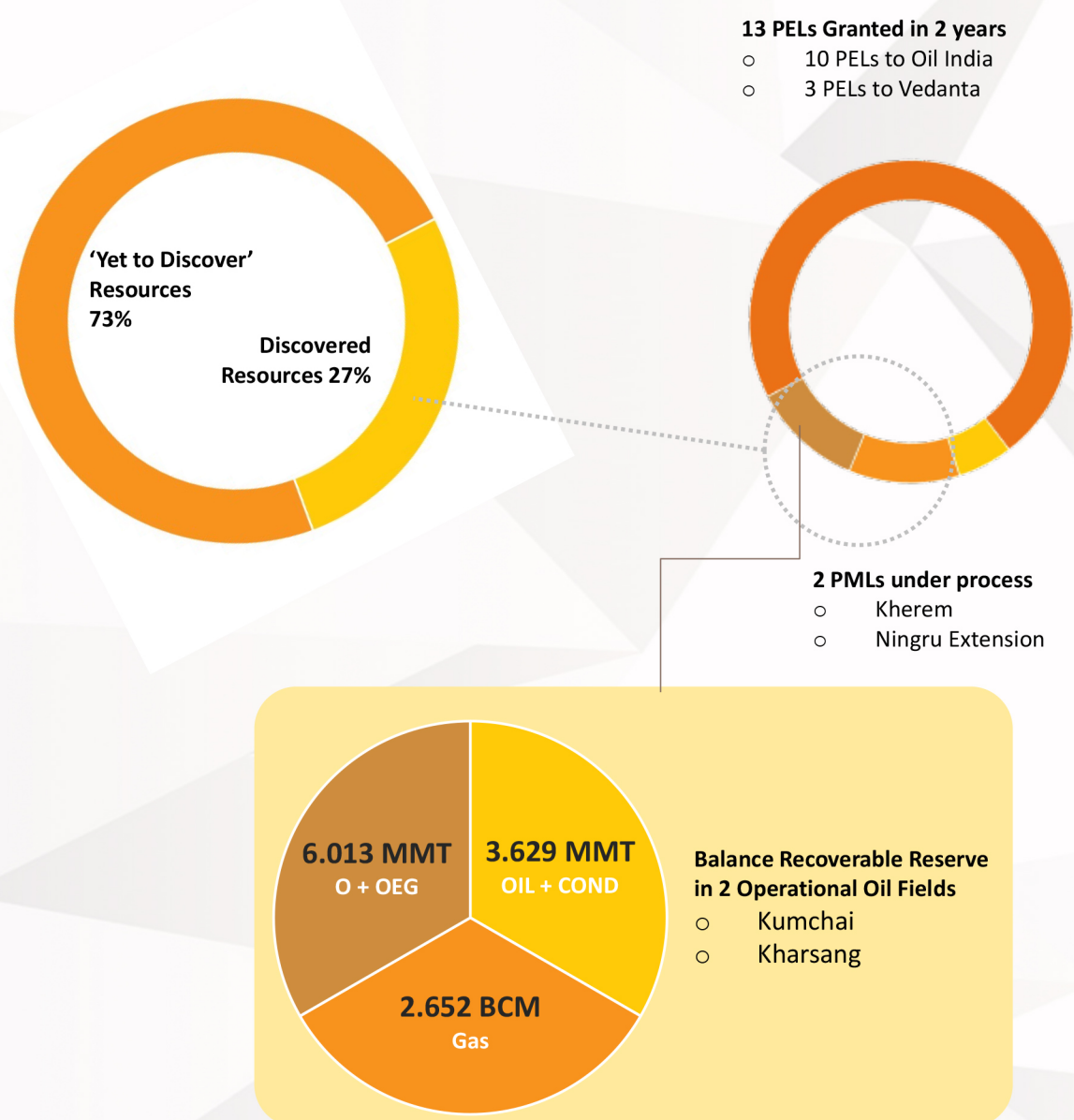
7,634 MMT Prognosticated Hydrocarbon Resources (O + OEG) in Upper Assam Shelf Basin and Assam-Arakan Fold Belt Basin

73% Resources under 'yet to Discover' category in surrounding belt

Arunachal

Hydrocarbon Reserves

Estimated Net Present Values (NPVs) of Hydrocarbon Resources, calculated after tax value of NPV for over a period of 20 years



> Rs. 7,000 Cr. NPV
Undiscovered Resources



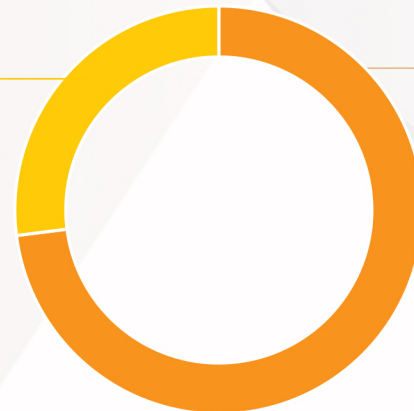
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Revenue Potential from Hydrocarbon

Rs. 1,800 Cr. NPV

Discovered Resources
(4 PMLs of 18)

27%
Discovered
Resources



Kherem & Nigru Ext PMLs
(in process)

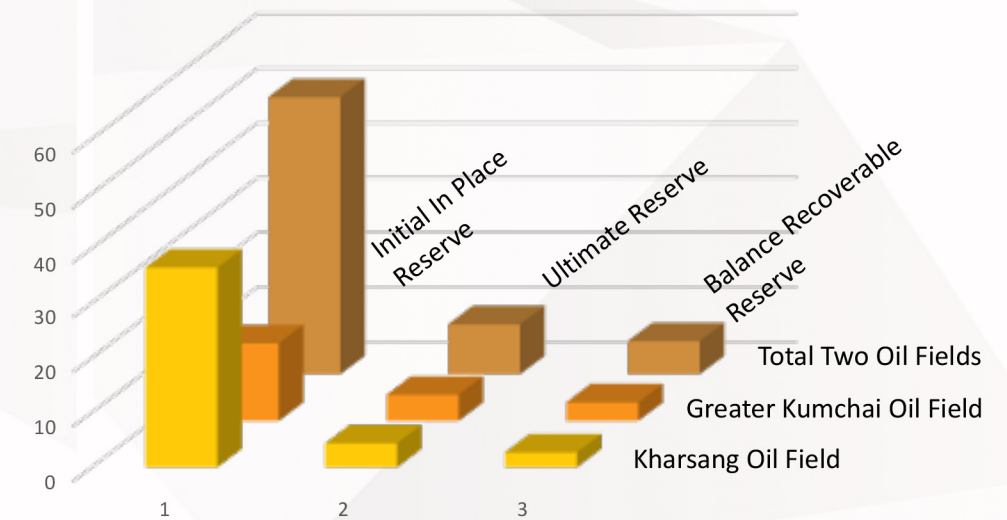
Rs. 600 Cr

Kharsang & Greater Kumchai PMLs

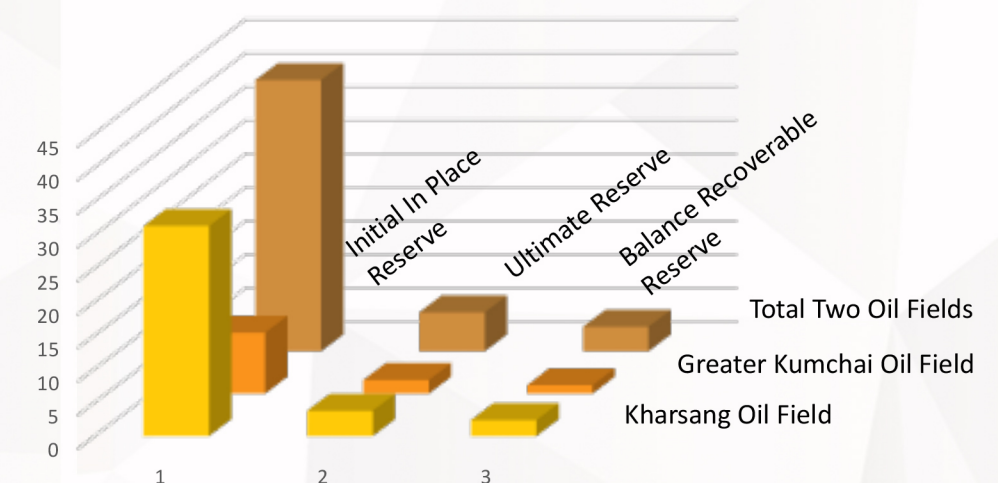
73%
Resources in
'Yet to Discover'
Category



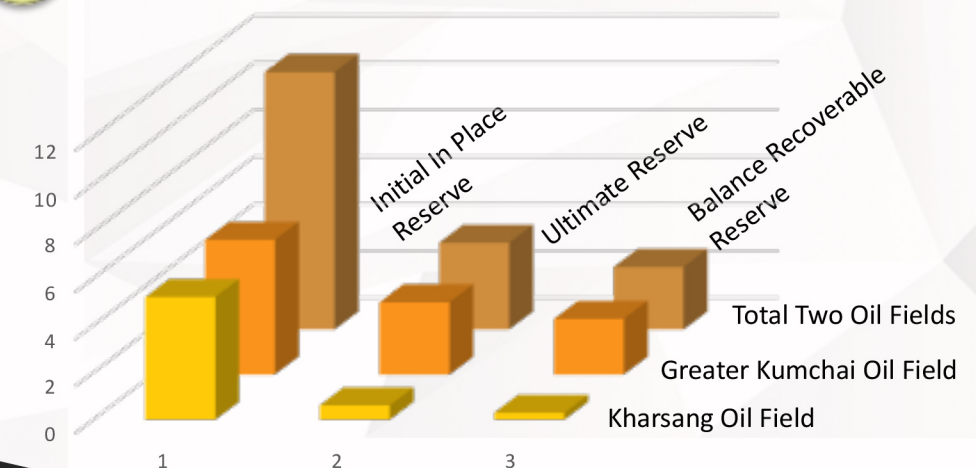
Oil and Oil Equivalent Gas (OEG) Reserves in Million Metric Tonnes (MMT)



Oil and Condensates Reserves in Million Metric Tonnes (MMT)



Gas Reserves in Billion Cubic Meters (BCM)



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Hydrocarbon & Mining Investment Potential



KHARSANG OIL FIELD



NINGRU OIL FIELD



Crude Oil & Natural Gas based Industries

- Gas based power plant
- Oil refinery
- Fertilizer, LPG & CNG plants



Coal Based Industries

- Coal based power plant
- Steel production
- Low Ash Metallurgical Coke (LAMC) production



Graphite based industries

- Dry lubricants
- Steel hardener
- Batteries, pencil



Limestone based industries

- Cement manufacturing
- Chemical processes



Dolomite based industries

- Agriculture
- Chemical and industrial applications
- Refractories



Ferro-Alloys Industries

- Steel fabrication

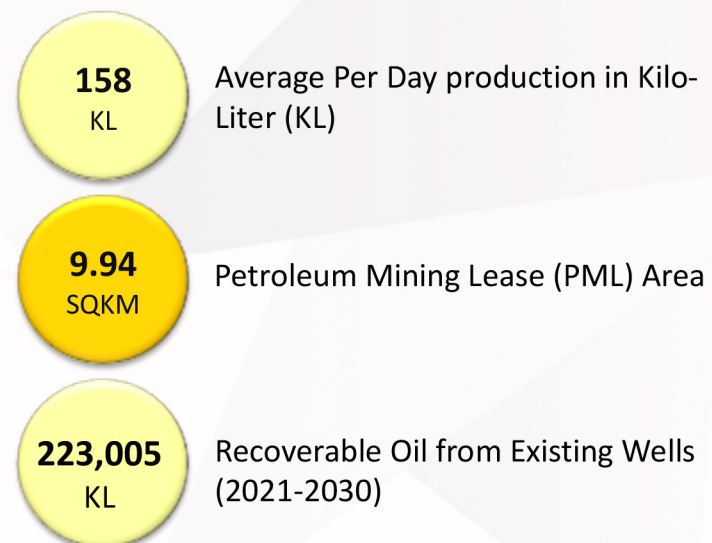
Existing Hydrocarbon Investors @
Arunachal



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Major Oil Fields

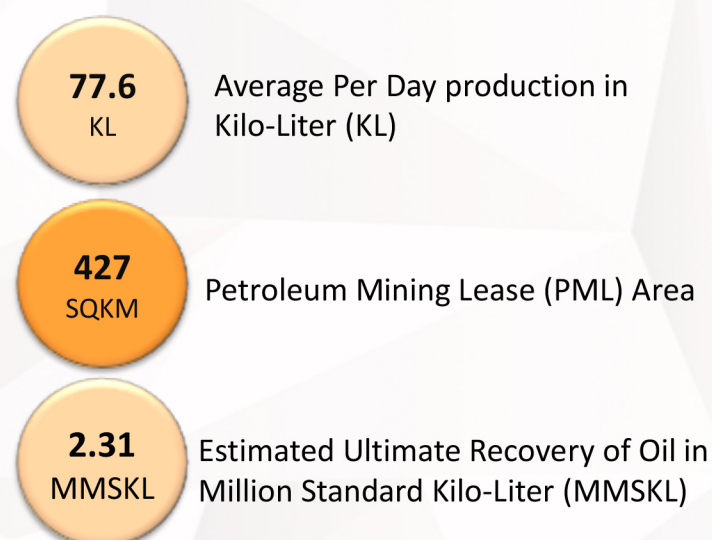
Kharsang Oil Field, Changlang



The Oil field located in Changlang district is operated by Geo-Enpro Petroleum Ltd. with a consortium of Oil India (40%), Geo-Petrol International Inc. (25%), Jubilant Energy Kharsang Pvt. Ltd.(25%) & Geo-Enpro Petroleum Ltd.(10%). Total drilled wells are 70 and total Producing Wells are 32 in numbers.

In addition to the existing oils, there is an estimated **1,106,495 KL** recoverable Oil from 43 New Wells (2022-2030)

Ningru Oil Field, Namsai & Changlang



Ningru Oil field is located in Changlang & Namsai districts and operated by Oil India Ltd. who was awarded Petroleum Mining Lease (PML) for 20 years (1983 – 2003) and now the same has been renewed till 2038. Out of total 14 oil wells, only 01 well is under production now and remaining are to be made functional.

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Upcoming Natural Gas Pipeline

61.4
KM

Proposed natural gas pipeline from Kumchai Oil Field in Arunachal Pradesh to Kusijan, near Digboi Oil Refinery in Assam to evacuate excess gas.

Proposal is under consideration of the Ministry of Petroleum & Natural Gas, Government of India. Cadastral Survey is completed and Land acquisition is underway.

The estimated resources and reserves of natural gas of Kumchai field:

Gas Initial in Place (GIIP) (MMSCM)	Expected Ultimate Recovery of Gas (MMSCM)	Remaining Recoverable Gas (MMSCM)
10029.06	3610.48	2853.14

700
KLPD

Transportation capacity of Crude Oil in Kilo Liter Per Day (KLPD) through 200 mm dispatch pipeline

1
MMSCMD

Transportation capacity of Natural Gas in Million Metric Standard Cubic Meter Daily (MMSCMD) through 400 mm gas pipeline

61.1
MCMPD

Average natural gas production in Million Cubic Meter per day



Limestone karst topography in Pawlang Sangri



Amorphous Graphite at Tai



Limestone at Tidding



Crystalline Graphite at Taliha



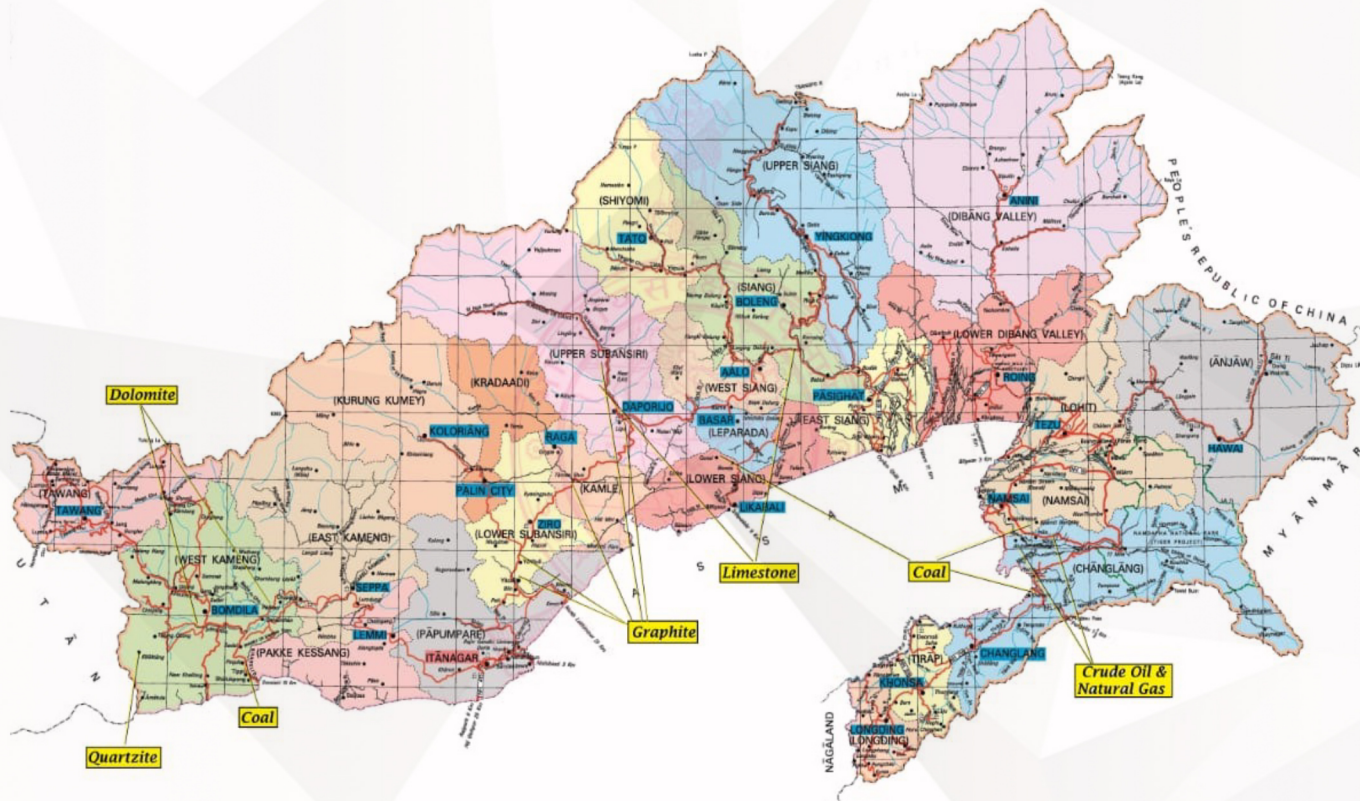
Dolomite at Rupa



Quartzite at Kalaktang

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Other Mineral Resources



Name of Minerals	Estimated Resources (in Million Tonnes)	Location	District
Limestone	Reported	Menga	Upper Subansiri
	224.47	Tidding	Anjaw
	07.00	Pangin	East Siang
	37.00	Lokpeng	East Siang
	225.00	Dali	West Siang
Graphite	Reported	Hunli	Dibang Valley
	Reported	Pawlang Sangri	Kra-Dadi
	0.50	Laa- Lamdak	Kamle
	2.46	Bopi	Kamle
	100.00	Taliha	Upper Subansiri
	2.98	Dodeserum	Lower Subansiri
	3.23	Tai	Lepa Rada
Dolomite	Reported	Lalpani	Lohit
	252.00	Rupa	West Kameng
Quartzite	11.13	Kaspi (Jameri)	West Kameng
	1.25	Kaaktang	West Kameng





Coal Reserves in Million Metric Tones (MMT)

Estimated Reserve	Location	District
84.23	Namchik-Namphuk	Changlang
Reported	Miao	Changlang
Reported	Jairampur	Changlang
Reported	Naitong	Tirap
Reported	Talhat	Tirap
Reported	Kanubari	Longding



Coal occurrences in Miao Area



Coal occurrences in Khamdu Area



Coal occurrences in Naitong Area



Coal occurrences in Thalot Area

On completion of exploration works, potential areas shall be identified and subsequently be allocated for mining through competitive bidding process.

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Coal Assets



Coal Occurrences in Arunachal Pradesh have been reported from Tertiary Coal Fields in **Naga-Pakai Ranges** in Eastern Part of the State. **Tertiary Coal** have been found in the various part of the Changlang, Tirap, & Longding districts of Arunachal Pradesh, which is the extension of the Makum Coal Field.

Earlier, Namchik Namphuk Coal field which lies in the eastern part of the Changlang district had been explored by GSI & MECL. Central Block of Namchik -Namphuk Coal Field was under active commercial production till 2012



The tertiary coal is medium to strongly caking in nature with **low ash and high sulphur content**. This coal can be effectively used in fertilizer or chemical industries and other suitable industrial purposes.



To explore the coal resources of Arunachal Pradesh, State Government signed a MoU with the **Central Mine Planning Design Institutes Ltd. (CMPDIL)**, a Govt organization under Ministry of Coal, in the year of 2021. The Ministry of Coal has approved the following coal blocks for Detailed & Regional exploration of coal jointly with CMPDIL.

Sl.	Name of Block	Area (SQKM)	District	Remarks
1	West & East Namchik-Namphuk Coal field	6.18	Changlang	Detailed Exploration
2	Miao Bum	5.0	Changlang	Regional Exploration
3	Khamdu I & II	5.0	Changlang	
4	Naitong	5.0	Tirap	
5	Thalot	5.0	Tirap	