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An Institute for Civil Services

IAS 2021

PRELIMS

SAMPORNA

# GEOGRAPHY MAPPING

MINERAL BELTS  
IN INDIA



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# **MINERAL BELTS IN INDIA**

# 1

## Iron Ore Distribution

---

- Odisha is the leading producer of iron ore accounting for 51% of total production followed by Chhattisgarh (17%), Karnataka (14%), Jharkhand (11%) and remaining (7%) production was reported from Andhra Pradesh, Goa, Madhya Pradesh, Maharashtra and Rajasthan.
- Geologically, iron ore is owned from following types of deposits.
- Banded Iron Formation of Precambrian age
- Archean schist belts: Jharkhand, Odisha, Karnataka, Chhattisgarh, Goa (high grade deposits).
- Granulite terrain of South India: Tamil Nadu and Kerala.
- Sedimentary Iron Ore Deposits of siderite and limonite composition (30–40% Fe) associated with Iron stone shales of Lower Gondwana age in coal field areas of Bihar, West Bengal, and Assam.
- Lateritic ores derived from the sub-aerial alteration of gneisses, schists, basic lava etc. under humid tropical condition. Deccan Trap, Chotnagpur gneisses (30–40% Fe)
- Apatite Magnetite Rocks of Singhbhum Copper Belt: Occur in form of a zone associated with granodiorite on the hanging wall side of Copper lodes.
- Titaniferous and Vanadiferous Magnetite deposits occurring in form of lensoidal bodies associated with intrusive ultramafic – gabbroic rocks of Singhbhum (Jharkhand), Mayurbhanj, Kendujhar (Odisha) and Southern districts of Karnataka (Hassan and Tumkuru districts).

\*\*\*\*\*



**INDIA**  
DISTRIBUTION OF  
IRON-ORE



1. Bihar - Orissa Belt
2. Chhattisgarh  
Maharashtra Belt
3. Karnataka Belt
4. Tamil Nadu Belt
5. Goa - Ratnagiri Belt

# 2

## Manganese Distribution

### Major Manganese Ore mining centre across world

- South Africa** - Kuruman area of Kalahari Basin.
- Gabon** - Moanda.
- Australia** - Groote Eylandt in the Gulf of Carpentaria.
- Russia** - Nikopol Basin, Urals, Western and Eastern Siberia.
- Brazil** - The Serra do Navio and Corumba district of Mato Grosso.
- Mexico** - Molango region.

### Manganese Ore reserves (in descending order)

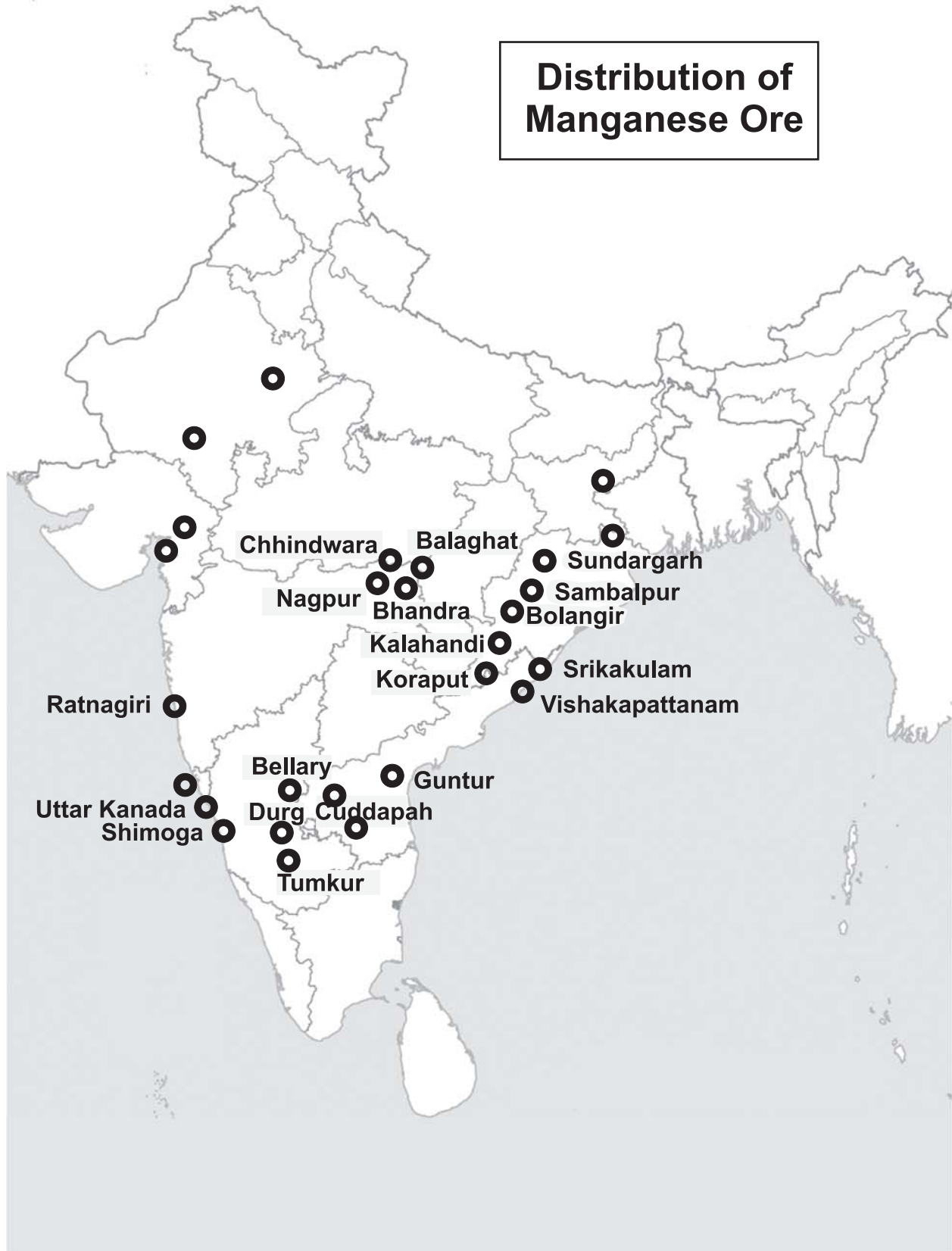
- |   |   |
|---|---|
| <input type="checkbox"/> Odisha   | <input type="checkbox"/> Madhya Pradesh |
| <input type="checkbox"/> Karnataka                                      | <input type="checkbox"/> Odisha         |
| <input type="checkbox"/> Madhya Pradesh                                 | <input type="checkbox"/> Maharashtra    |
| <input type="checkbox"/> Maharashtra                                    | <input type="checkbox"/> Karnataka      |
| <input type="checkbox"/> Manganese Ore production (in descending order) |   |

#### Manganese Ore has following four varieties which have commercial importance:

- Pyrolusite (the most important Manganese ore)
- Psilomelane
- Manganite
- Braunite
- Rhodochrosite

\*\*\*\*\*

## Distribution of Manganese Ore



# 3

## Bauxite Distribution

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- Odisha alone accounts for 51% of country's resources of bauxite followed by Andhra Pradesh (16%), Gujarat (9%), Jharkhand (6%), Maharashtra (5%) and Madhya Pradesh & Chhattisgarh (4% each).
- Major bauxite resources are concentrated in the East Coast bauxite deposits in Odisha and Andhra Pradesh.
- The world bauxite reserves are estimated at 30 billion tonnes and are located mainly in Guinea (25%), Australia (20%), Vietnam (12%), Brazil (9%), Jamaica (7%), Indonesia, Guyana and China (3% each).

### Major Bauxite Centres in India

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- **Odisha:** Kalahandi, Sambalpur, Bolangir and Koraput.
- **Jharkhand:** The patlands of Jharkhand in Lohardaga.
- **Gujarat:** Bhavnagar, Jamnagar in Gujarat.
- **Chhattisgarh:** Amarkantak plateau
- **Madhya Pradesh:** Katni-Jabalpur area and Balaghat.
- **Maharashtra:** Kolaba, Thane, Ratnagiri, Satara, Pune and Kolhapur.
- Tamil Nadu, Karnataka and Goa are minor producers of bauxite.

\*\*\*\*\*

# INDIA

## Bauxite Mines



# 4

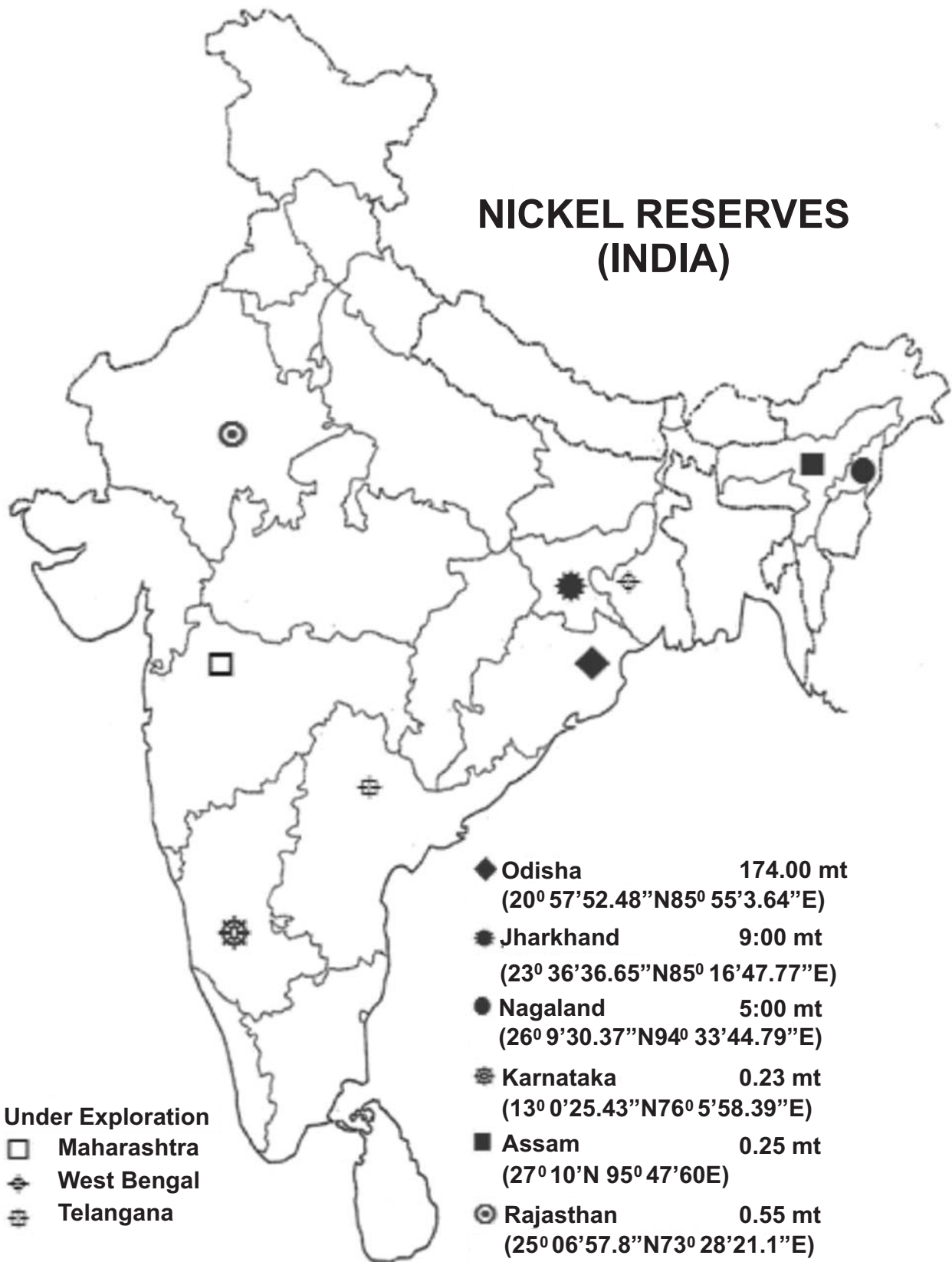
## The Vindhya Range

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- Nickel occurs principally as oxides, sulphides and silicates in India.
- Important occurrence is nickeliferous limonite in the overburden of chromite in Sukinda Valley, Jajpur district, Odisha.
- In addition, nickel is found associated with uranium deposits at Jaduguda, Jharkhand and a process are being developed for its recovery.
- Resources are spread over in Singhbhum East district of Jharkhand and Jajpur, Keonjhar&Mayurbhanj districts of Odisha.
- It is found as oxide in Odisha which has 93% of the India's nickel resources. In Jharkhand, nickel is found along with copper and uranium deposits.
- Nickel is also produced as a by-product of copper mining, as in the Ghatsila area of Jharkhand where nickel occurs in small quantities in the copper

\*\*\*\*\*

## NICKEL RESERVES (INDIA)



# 5

## Chromite Distribution

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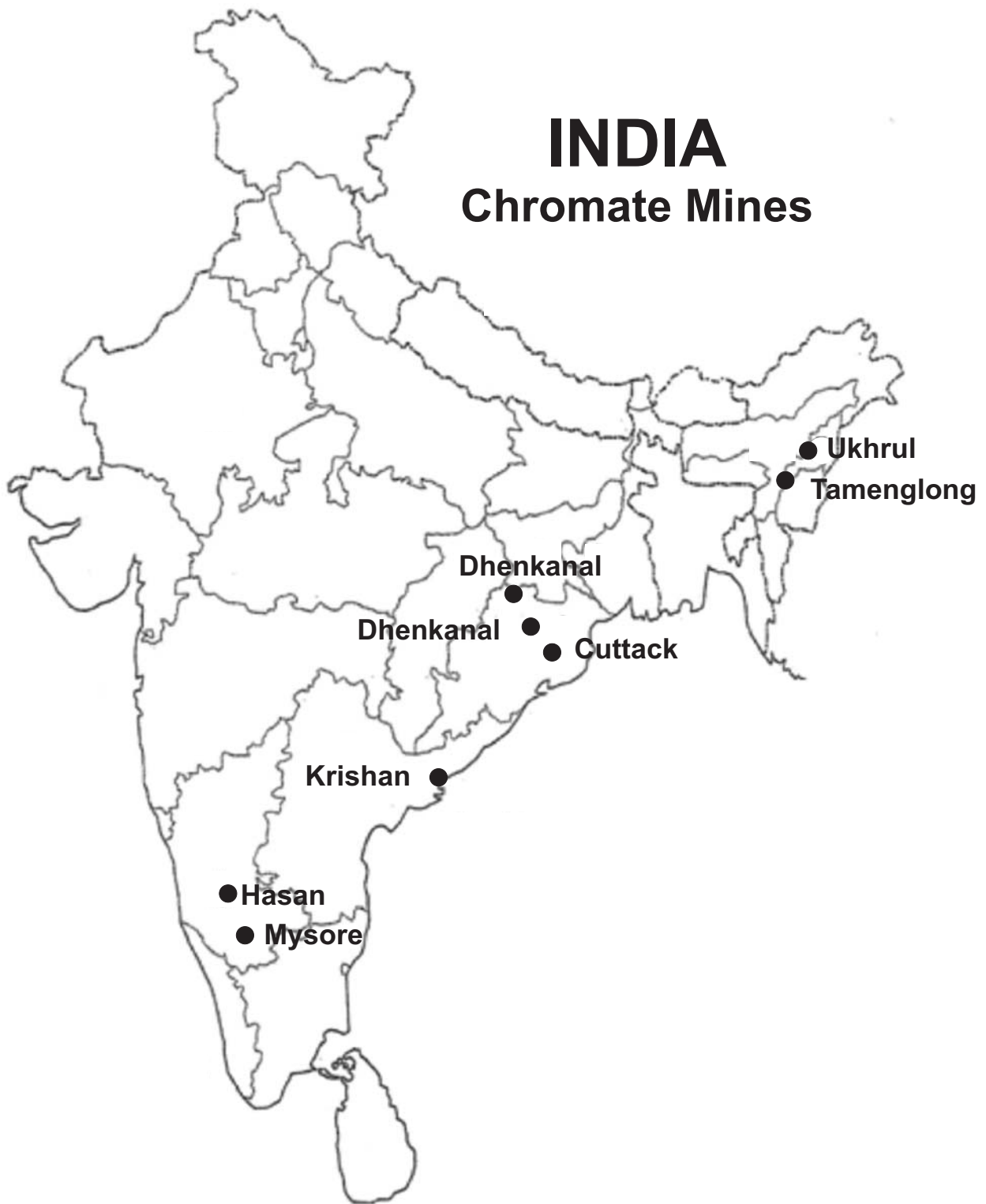
- More than 96% resources of chromite are located in Odisha, mostly in Jajpur, Kendujhar and Dhenkanal districts.
- Minor deposits are scattered over Manipur, Nagaland, Karnataka, Jharkhand, Maharashtra, Tamil Nadu, Telangana and Andhra Pradesh.
- At present, mining operations for chromite are restricted in the Sukinda ultramafic belt, in the BaulaNausahi chromite belt in Odisha, in Hassan district of Karnataka and minor quantity is also produced in Maharashtra.

\*\*\*\*\*



# INDIA

## Chromate Mines



# 6

## Lead and Zinc Distribution

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- India has a combined zinc-lead production capacity of more than one million tonnes per annum.
- Rajasthan is endowed with the largest resources of lead-zinc ore in India.
- Resources are also established in Andhra Pradesh, Maharashtra, Gujarat, Meghalaya, Odisha, Sikkim, Tamil Nadu, Uttarakhand and West Bengal.
- RampuraAgucha is zinc and lead mine in the Bhilwara district of Rajasthan, India. It has world's largest deposits of zinc and lead.
- Refined lead is imported from South Korea, Australia, Malaysia, UAE and Myanmar and exported to the US, South Korea, Taiwan, Vietnam & Thailand.

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# Map of India

Showing  
Important Lead-Zinc deposits  
and Lead mines



# 7

## Mica Distribution

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- The three major types of mica found in India are: muscovite (potash or white mica), phlogopite (magnesium or amber mica) and biotite.
- Important mica bearing pegmatite occurs in Andhra Pradesh, Bihar, Jharkhand, Maharashtra, Odisha, Rajasthan and Telangana.
- Andhra Pradesh leads with 41% share in country's total resources followed by
- Rajasthan (28%)
- Odisha (17%)
- Maharashtra (13%)
- Bihar (2%) and
- Small quantities in Jharkhand and Telangana.

\*\*\*\*\*

**INDIA  
MICA, BAUXITE  
AND MANGANESE  
FIELDS**



# 8

## Gold Distribution

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- Australia and South Africa hold a large share of the world's gold mine reserves, accounting for 10,000 metric tons and 5,300 metric tons, respectively.
- There are three gold fields in the country, namely Kolar Gold Field, Kolar district, Hutti Gold Field in Raichur district (both in Karnataka) and Ramgiri Gold Field in Anantpur district (Andhra Pradesh).
- Karnataka is the largest producer of gold in India.
- The ten largest gold mines in the world:
  - South Deep gold mine, South Africa
  - Grasberg gold mine, Indonesia
  - Olimpiada gold mine, Russia
  - Lihir gold mine, Papua New Guinea
  - Norte Abierto gold mine, Chile
  - Carlin Trend gold mine, USA
  - Boddington gold mine, Western Australia
  - Mponeng gold mine, South Africa
  - Pueblo Viejo gold mine, Dominican Republic
  - Cortez gold mine, USA

\*\*\*\*\*

# INDIA

## GOLD MINES



# 9

## Silver Distribution

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- Mexico is the world leader in terms of silver production from mines, followed by countries such as Peru, Australia, China, Chile, Bolivia, USA and Russia among others.
- By states, largest resources in terms of silver ore in descending order: Rajasthan > Jharkhand > Andhra Pradesh > Karnataka.
- In terms of production, following states are the top producer of silvers in descending order: Andhra Pradesh > Bihar > Jharkhand > Rajasthan > Karnataka.

\*\*\*\*\*



## Gold and Silver Production in India



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CSE 2017


**TOP 100**  
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CSE 2016

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**TOP 100**  
ALL INDIA RANKING  
CSE 2015

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