

DISTRIBUTION OF COPPER IN INDIA

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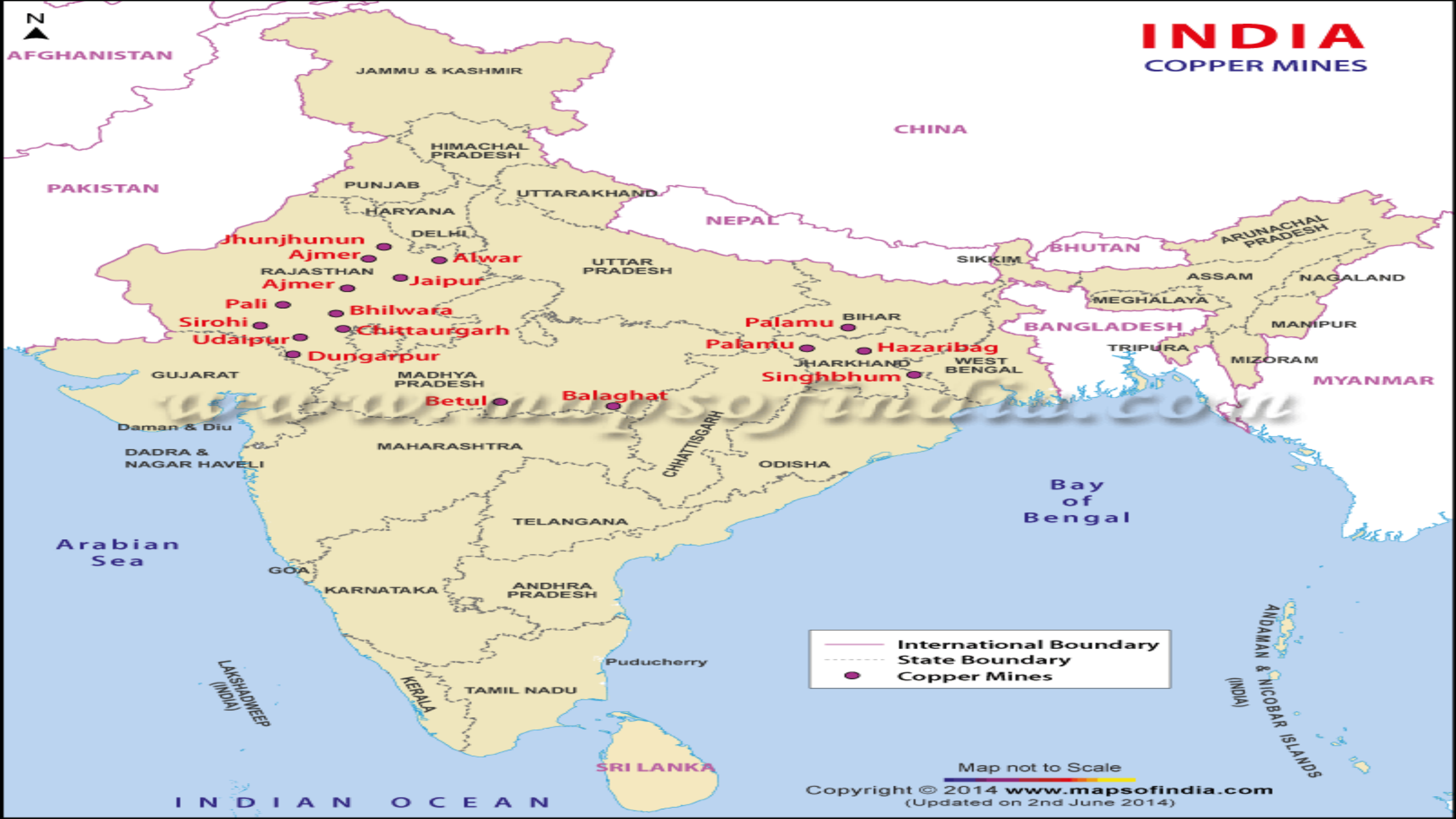
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- Copper is highly ductile ,strong and good conductor of electricity. It is mainly used in electrical machinery , automobile ,stainless steel ,When alloyed with zinc,it is known as 'brass' and with tin as 'bronze'.
- copper is heavily employed in the construction industry. It is commonly found in buildings because it is waterproof. This makes it suitable for cladding, roofing and plumbing.
- More than half of the copper produced is for electricity. Its core functions are transmission of electricity and power generation. The metal is employed in generators, bushbars, motors and transformers.

INDIA

COPPER MINES



— International Boundary
- - - State Boundary
● Copper Mines

Map not to Scale

Copper production in India is only about 2 percent of world copper production in view of its potential reserve limited to 60,000 km² (2% of world reserve) of which 20,000 km² area has been subject to exploration, as of 2012.

But in production it is still within the first 20 countries of the world and also one of its largest importers in line with China, Japan, South Korea and Germany.

- Mining production is just 0.2% of world's production, whereas refined copper production is about 4% of world's production.

- In 2011, according to the Ministry of Mines, India exported refined copper, which was initially done exclusively by the mines owned by Hindustan Copper Ltd (HCL) (incorporated as Indian Copper Corporation Ltd. in 1972) since 1967, a Government of India undertaking.
- Now there are three more manufacturers in this field such as Hindalco Industries Ltd, Sterlite Industries Ltd and Jagadia Copper Ltd. However, HCL is the dominant industry which has wide range of production capability in mining, beneficiation, smelting, refining and continuous cast rod manufacturing.

- Rajasthan, Madhya Pradesh and Jharkhand are the only states involved in production of copper ore in the country.
- However, copper concentrates are imported by the Birla copper of Hindalco Industries Limited and Sterlite Industries Limited to produce copper metal located in the States of Gujarat and Tamil Nadu, respectively.

INDIA:- DISTRIBUTION OF COPPER

State	Production in thousand tonnes	%of all India production (2005-06)	%of all India production (2011-12)	District/mining centres
1. Madhya Pradesh	89	55.97	59.85	Balaghat, Betul
2. Rajasthan	65	40.88	28.20	Jhunjhunu,Ajmer, Chittaurgarh,Durgapur, Jaipur, Pali,Sikar,etc.
3. Jharkhand	05	3.15	11.10	Hazaribagh,Santhal Parganas
All India	159	100.00	100.00	

1.MADHYA PRADESH :

- The state of Madhya Pradesh is the largest producer of copper
- In india.The state has a large deposit of copper in Teregaon in Malanjkhand belt of Balaghat District .It is also found in Bargaon of the Betul District .
- largest producer state of copper in the country .

2.RAJASTHAN:-

- Rajasthan has also progressed a lot with respect to production of copper and is now the second largest producing state in India accounting for over 40 per cent of the total production of the country. Most of the copper reserves are found along the Aravalli range.
- A total of recoverable reserve in the state, spread over the districts of Ajmer, Alwar, Bhilwara, Chittaurgarh, Dungarpur, Jaipur, Jhunjhunu, Pali, Sikar, Sirohi and Udaipur are estimated at 65.08 million tonnes from which 613.55 thousand tonnes of metal is expected to be obtained.

3. JHARKHAND:-

- It is the third largest producer state of copper in the country .Copper is mined in Hazaribagh ,Santhal Pargana ,Gaya, and Palamu districts .
- **Chilpi Series** :- It stretches over parts of Belaghat ,and Chhindwara districts of Madhya Pradesh .The series consists of Quartzite,copper-pyrite,mica schist,and marble. The copper obtained from this series is used in the Malanjkhand Copper Plant,a copper smelting point.

- **Ghatshila:** Located in Jharkhand, it is a copper smelting plant. It is an electrolytic refinery. It manufactures brass sheets. It also obtains gold, silver, and nickel in the processing of copper.
- **Khetri :-** It is an integrated copper mining-cum-ore refining plant in the Jhunjhunu district of Rajasthan. It was established in 1967. It also obtains copper ore from the Malanjkhand copper mines of Madhya Pradesh. It also has a sulphuric acid plant, and a fertiliser plant.

- **Korba** :- Bharat Aluminium Company Limited (BALCO) has an aluminium plant located at Korba ,Bilaspur District of Chhattisgarh .It obtains bauxite deposits from the Amarkantak region and electricity from the Korba Thermal Power Plant .The government has disinvested its share to a private company , sterlite .
- **Malanjkhand** :- It is an open cast copper mine in Balaghat District of Madhya Pradesh .A copper has been established at Malanjkhand .The copper ore is also sent to the Khetri Copper Plant of Rajasthan .

- **Rakha Project** :--The Rakha copper Plant is located in the Rakha District of Singhbhum of Jharkhand.It obtains copper ore from the mines of Rakha .
- **Tajola:-** The Tajola Copper Plant is located in the Raigadh town Maharashtra .The plant has imported copper cathodes . It manufactures copper rods .

YEAR-WISE PRODUCTION OF COPPER ORE IN INDIA

year	Production in thousand tonnes
2009-10	125
2010-11	137
2011-12	133
2014-15	108

Sources: Statistical Outline of India(Tata) 2012-2013,p.67
India2017:A reference Annual,p.552

CONCLUSION:

- Write down on your own.

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