

Jaduguda Uranium Mine

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The **Jaduguda Mine** (also spelt as Jadugoda or Jadugora) is a uranium mine in Jaduguda village in the Purbi Singhbhum district of the Indian state of Jharkhand. It commenced operation in 1967 and was the first uranium mine in India.^[1] The deposits at this mine were discovered in 1951. As of March 2012 India only possesses two functional uranium mines, including this Jaduguda Mine.^[2] A new mine, Tummalapalle uranium mine is discovered and mining is going to start from it.

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Geography

The Jaduguda uranium mine is an underground mining mine located in the Purbi Singhbhum district of Jharkhand.^[3]

Uranium purification plant

A uranium purification plant is located close to the mine. The final product of this plant is Yellow cake. According to Department of Atomic Energy (DAE), the ore extracted from this mine is of 0.065 grade, which means that the plant needs to process 1,000 kg of ore to extract 65 grams of usable uranium.^[4] The plant processes 2,190 tonnes uranium ore per day.^[5]

After purification of the ore, Yellow cake is shipped by heavy-duty vehicles to the Nuclear Fuel Complex in Hyderabad, Andhra Pradesh, which is over 1,200 kilometres (750 mi) away from plant.^[6]

Smuggling of uranium

Jaduguda Uranium Mine

Location



Location in India

Location Jaduguda, Purbi Singhbhum district

State Jharkhand

Country India

Coordinates 22.39°N 86.22°E﻿ / ﻿

Production

Products Uranium

History

Opened 1967

Owner

Company Uranium Corporation of India

Website www.ucil.gov.in
(http://www.ucil.gov.in/web/index.asp)

On 18 February 2008 police of Supaul district in the eastern Indian state of Bihar seized 4 kg of low-quality uranium and arrested one Indian and five Nepali smugglers. According to media reports the uranium was smuggled out of the Jaduguda mines and the smugglers were trying to sell it to Nepal. The market value of the seized uranium was estimated at ₹50000000 (US\$810,000) on the international market.^{[7][8]}

Pollution

In Jaduguda, there is a constant exposure to low and toxic level emission. Children are born with swollen heads, blood disorders and skeletal distortions. Contamination is present in lot of places.^[9] Animals such as cows and buffaloes are suffering from rare diseases.^[10] Wastes are dumped in open fields, which spreads toxicity.^[11]

References

- ¹ ^ Uranium Corporation of India (<http://www.ucil.gov.in/web/mines.html>)
- ² ^ Daunting road ahead for nuclear power (<http://www.thehindubusinessline.com/opinion/article2592039.ece>) M. SOMASEKHAR The Hindu Business Line 2 November 2011
- ³ ^ The open cast mining taking place in Jaduguda, Jharkhand (<http://www.thehindubusinessline.com/todays-paper/tp-economy/article1675215.ece>)
- ⁴ ^ The \$14m haze over India's mega uranium discovery (http://www.tehelka.com/story_main50.asp?filename=Ws200711Hillary_Clinton.asp) Arpit Parashar - Tehelka.com
- ⁵ ^ Mill to process natural uranium ore commissioned (<http://www.hindu.com/2007/06/26/stories/2007062651661300.htm>) T.S. Subramanian, The Hindu, 26 June 2007
- ⁶ ^ Uranium ore ferried through Naxal belt sans security (<http://www.financialexpress.com/news/uranium-ore-ferried-through-naxal-belt-sans-security/323733/>) PRANBIHANGA BORPUZARI - Financial express
- ⁷ ^ India police seize 8 lbs of uranium from smugglers (<http://www.reuters.com/article/2008/02/19/us-india-uranium-idUSB65928720080219>) Reuters 19 February 2008.
- ⁸ ^ Delhi's non-compliance (<http://www.thenews.com.pk/TodaysPrintDetail.aspx?ID=139039&Cat=9&dt=10/4/2008>) The News, 4 October 2008
- ⁹ ^ "Jaduguda's hapless children" (<http://www.hindu.com/2006/05/06/stories/2006050604961100.htm>). *The Hindu* (India). 6 May 2006.
- ¹⁰ ^ "Villages and woes" (<http://www.frontlineonnet.com/fl1618/16180700.htm>). *Frontline* (India). 10 September 1999.
- ¹¹ ^ "Uranium mine waste imperils villages in Jaduguda" (<http://www.downtoearth.org.in/node/4306>). *Down to Earth* (India). 15 March 2008.

External links

- Uranium Corporation of India (<http://www.ucil.gov.in/web/index.asp>)– Official Website

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