COUNTRY FACT SHEET

INDIA

(last updated December 2014)

- India is a uranium producer for domestic purposes. None of its uranium is exported abroad.
- From 1974 to 2008, India was excluded from the global trade in nuclear materials.
- India has all stages of the nuclear fuel cycle, starting from uranium exploration, mining, extraction and conversion, through fuel fabrication, to reprocessing and waste management.
- 21 nuclear power reactors operating as of September 2014.
- 7 reactors are under construction with plans to build about 25 more (and the number may increase).
- India is not a party to the Nuclear Non-Proliferation Treaty.
- India has signed and ratified the Additional Protocol.

International Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Signed / entered into force</th>
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<tbody>
<tr>
<td>Nuclear Non-proliferation Treaty (NPT)</td>
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<td>Convention on the Physical Protection of Nuclear Material (CPPNM) and 2005 Amendment</td>
<td>2002 (accession)</td>
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<tr>
<td>Convention on Nuclear Safety</td>
<td>1994/2005</td>
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<tr>
<td>Convention on Assistance in Case of a Nuclear Accident or Radiological Emergency</td>
<td>1986/1988</td>
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**Domestic Legislation**

Atomic Energy Act  
Factories Act  
Weapons of Mass Destruction Act  
Foreign Trade Development & Regulation Act  
Customs Act  
Environmental Protection Act

**Actors**

Department of Atomic Energy - Government of India  
Atomic Energy Commission  
Atomic Energy Regulatory Board (AERB)  
Ministry of External Affairs

**Exploration:**

Atomic Minerals Directorate for Exploration and Research (AMD)

**Mining:**

Uranium Corporation of India Ltd (UCIL) a subsidiary of: Department of Atomic Energy (DAE)

**Operating mines:**

Banduhurang (operated by Uranium Corporation of India Ltd (UCIL) ) [google map link](#)  
Bagjata (operated by Uranium Corporation of India Ltd (UCIL) ) [google map link](#)  
Mohuldih (operated by Uranium Corporation of India Ltd (UCIL) )  
Juduguda (operated by Uranium Corporation of India Ltd (UCIL) ) [google map link](#)  
Bhatin (operated by Uranium Corporation of India Ltd (UCIL) ) [google map link](#)  
Narwapahar (operated by Uranium Corporation of India Ltd (UCIL) ) [google map link](#)  
Turamdih (operated by Uranium Corporation of India Ltd (UCIL) ) [google map link](#)
Tummalapalle (operated by Uranium Corporation of India Ltd (UCIL))

**Mills/Processing Plants**

**Turamdih** (serving these mines: Banduhurang, Bagjata, Mohuldih)
- Ore produced from Turamdih and Banduhurang mines
- Modernised and getting expanded to treat more ore
- Uses the Jaduguda process to send uranium to Nuclear Fuel Complex, Hyderabad
- [google map link](#)

**Jaduguda**
- Modernised over the years
- Ore from Jaduguda, Bhatin and Narwapahar
- Extraction by hydro-metallurgical process
- Ore undergoes two stages of wet grinding after three stages of crushing
- Turned into magnesium di-uranate, or "YELLOW CAKE"
- Thickened, washed, filtered and dried in the spray dryer, and finally packed in drums and then sent to Nuclear Fuel Complex at Hyderabad for further processing into UO2 pellets