

Rooppur Nuclear Power Plant

December 29, 2024 • vajiramandravi.com



About Rooppur Nuclear Power Plant:

- It is a nuclear power plant under construction in Iswardi, Pabna District, Rajshahi Division, **Bangladesh**.
- It will be **Bangladesh's first source of nuclear power**.
- **Bangladesh Atomic Energy Commission (BAEC) is the owner** of the Rooppur nuclear plant.
- It features **two VVER-1200 reactors**, created by **Russian** company Rosatom.
- Construction of both water-cooled reactors began in November 2017.
- Once completed, the two reactors at the Rooppur site, some 160 kilometres northwest of the capital, Dhaka, **will generate 2400 megawatts** of power, providing approximately 9 percent of Bangladesh's total electricity needs.
- The total estimated cost of the Rooppur nuclear plant is \$12.65 billion US dollars.
- The construction is **largely funded by a loan from Russia**, to be paid back over 20 years.

Q1: What is Nuclear Energy?

Nuclear energy is a form of energy released from the nucleus, the core of atoms, made up of protons and neutrons. This source of energy can be produced in two ways: fission – when nuclei of atoms split into several parts – or fusion – when nuclei fuse together.

Source: Bangladesh initiates investigation into Russia-backed Rooppur nuclear project

Source: <https://vajiramandravi.com/current-affairs/rooppur-nuclear-power-plant/>

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