



Russia Ships Equipments to Kudankulam NPP

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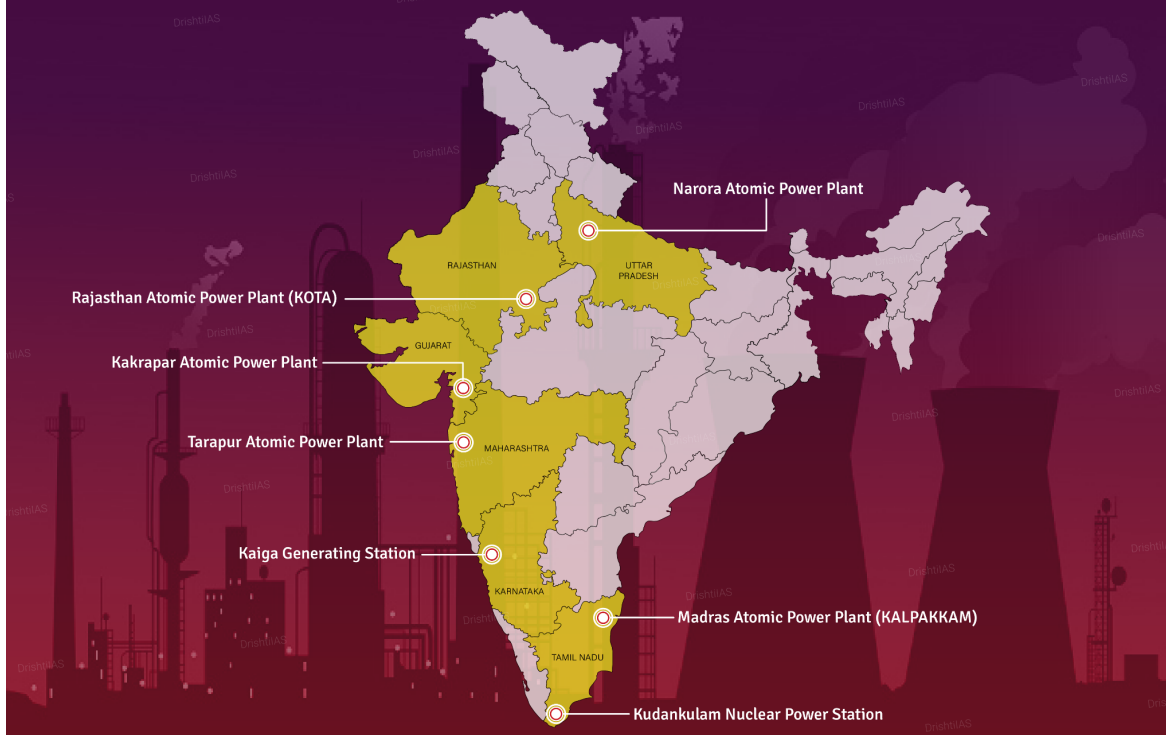
Russia has shipped the first batch of 26 **turbine hall pipeline valves** (High-pressure and low-pressure gate valves) for the **Kudankulam Nuclear Power Project's (KNNP)** reactors 5 and 6

- Their key function is a **tight shut-off of the fluid or gas flow** to ensure **reliable operation of the system**.
- It currently has 2 x 1,000 MWe WWER reactors generating power, with 4 more reactors of similar capacity under construction.
 - WWER are "**Water-Water Power Reactor**". These reactors use **water as both** the **coolant** and the **moderator** for the nuclear reactions that produce energy.
- **KNNP** has been modernised jointly by **Russia's Rosatom** and the [Nuclear Power Corporation of India Limited \(NPCIL\)](#). It is the **largest nuclear power plant** in India.
 - It is India's first nuclear plant to use **imported PWR (Pressurised Water Reactor) technology**.
 - Its construction **began in 2002** and it is expected to operate in **full capacity by 2027**.
- The share of nuclear power in the total electricity generation in the country was about **2.8%** in the year 2022-23.

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Operational Nuclear Power Plants in India



FACTS

- Presently, India has 22 nuclear power reactors operating in 6 states, with an installed capacity of 6780 MegaWatt electric (MWe).
- Activities concerning the establishment and utilization of nuclear facilities and use of radioactive sources are carried out in India in accordance with the Atomic Energy Act, 1962.
- Atomic Energy Regulatory Board (AERB) regulates nuclear & radiation facilities and activities.
- **Newest & Largest Nuclear Power Plant:** Kudankulam Power Plant, Tamil Nadu.
- **First & Oldest Nuclear Power Plant:** Tarapur Power Plant, Maharashtra.



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