

Summary of EoI

EOI No.:	NTPC/NC/EOI/PWR/2024-25
Date of Publication:	26.03.2025
Closing Date:	09.05.2025 (45 days from the publication date)

Objective:

NTPC is inviting Expressions of Interest (**EOI**) from **capable entities for cooperation** in indigenizing **Pressurized Water Reactor (PWR)** technology and establishing **large-capacity (1000 MW & above)** Nuclear Power Plants (NPPs) in India on a concept-to-commissioning basis, subject to Government of India (GoI) approval. The target capacity is **15 GW $\pm$ 10%**.

Eligibility Criteria:

- Any vendor, from a country which shares a land border with India, will be eligible to participate only when and if the vendor is registered with the Competent Authority.
 - The applicant must have ownership & IPR rights of the PWR technology.
 - The proposed PWR technology must be licensed for operation by the Nuclear Regulator of the vendor's country of origin.
 - The technology should be licensable in India as per Atomic Energy Regulatory Board (AERB) requirements.
 - Proven experience in designing, manufacturing, and commissioning at least one large-capacity PWR-based NPP in operation for a minimum of one year.
 - Financial capability and technical competence to support indigenization and project execution.
 - Possession of a No Objection Certificate (NOC) from relevant authorities in the vendor's country of origin.
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Scope of Cooperation:

- **Technology Transfer:** Gradual transfer of key PWR technologies to India.
 - **Technology Indigenization:** Adapting PWR technology to meet AERB and site-specific requirements.
 - **Project Execution:** End-to-end execution of PWR-based nuclear projects, including engineering, procurement, and construction.
 - **Phased Manufacturing Plan & Supply Chain Development:** Establishing domestic manufacturing capabilities with a phased manufacturing program, ensuring **60% indigenization initially**, increasing to **95%**.
 - **Fuel Supply & Fabrication:** Commitment to lifetime nuclear fuel supply and setting up a fuel fabrication facility under IAEA safeguards.
 - **Capability Development:** Training NTPC executives for long-term expertise development.
 - **Operation & Maintenance:** Undertaking O&M for five years post-commissioning until NTPC takes over.
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Submission Details:

- EOI documents are available at www.ntpctender.com & <https://eprocurentpc.nic.in>.
 - **Submission Mode:** Soft copy via email or hard copy by registered post to:
To: Arnada Prasad Samal, General Manager (Nuclear Cell)
Email:apsamal@ntpc.co.in
Address: NTPC Limited, Nuclear Cell, Western Region – I HQ, Samruddhi Venture Park, Andheri (East), Mumbai – 400093
 - Link for EOI Documents <https://ntpctender.ntpc.co.in/NITDetails/NITs/28426>
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