NRDC-2025
PROGRESS SINCE 2024 MEETING

DEVESH RAJ

Bhabha Atomic Research Centre

Mumbai, INDIA.

Charged Particle induced Nuclear reaction Data	**20**
Neutron induced Nuclear reaction Data	**15**
Photon induced Nuclear reaction Data	**02**
Total New entries compiled	**37**
Number of EXFOR entries revised	**12**

Nuclear Reaction Data Measurement

Title	Existing and upcoming particle accelerators in India
Author	B. Lalremruata, S. Kailas, V.N. Bhoraskar, S.Ganesan, Alok Saxena, B.K. Nayak, Ajay Tyagi, M.M.Musthafa, S. Mukherjee, G. Mukherjee, H. Naik, S.D. Dhole
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Abstract

In this report, brief information of existing and upcoming particle accelerators in India has been compiled for scientist, engineers and students in India and abroad to have idea on status of particle accelerators in India. Attempt has been made to include detail operating parameters, thrust research areas, limitations and additional facilities, its availability to users across the country and abroad. This report may serve as an important document in the future to propose state of art facilities and particle accelerators in different parts of country. However, the present report does not contain any information on accelerators in the past that are no longer in operation or already decommissioned.

IAEA International Atomic Energy Agency

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INDC International Nuclear Data Committee

Existing and upcoming particle accelerators in India

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EXFOR entries compiled and transmitted to the IAEA-NDS since the NRDC-2024 meeting.

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Software utilized for EXFOR Compilation activity:

- Russian EXFOR editor [http://wwwnds.iaea.org/nrdc/nrdc_sft/] for compilation.
- GSYS [https://www.jcprg.org/gsys/2.4/] for digitization
- JCPRG EXFOR tool [https://www.jcprg.org/exfor/tool/] for checking purpose:

Transmission Statistics since NRDC 2021 Meeting

	New Entries (India)	Fraction to New Entries (NRDC)
NRDC2024 – NRDC2025	37	9%
NRDC2023 – NRDC2024	53	12%
NRDC2022 – NRDC2023	19	5%
NRDC2021 – NRDC2022	55	10%

The EXFOR compilation of nuclear reaction data in India is coordinated by Bhabha Atomic Research Centre (BARC), Department of Atomic Energy (DAE).

- Offering project and funding opportunities to university faculties in partnership with different DAE units.
- Encouraging and engaging voluntary compilers, including young researchers and article authors.
- Hosting EXFOR theme meetings and workshops.

Jaipur EXFOR Workshop (2009)

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