

This file has been cleaned of potential threats.

To view the reconstructed contents, please SCROLL DOWN to next page.

**प्लाज़्मा अनुसंधान संस्थान, गाँधीनगर/ Institute for Plasma Research, Gandhinagar**

**शोध प्रतिवेदन, जनवरी 2025/ Research Reports, January 2025**

<b>S. No.</b>	<b>Author</b>	<b>Report title</b>	<b>Report Number</b>
1	P. K. Sharma	Initial lower hybrid current drive experiments with PAM launcher in ADITYA-U tokamak	IPR/RR-1712/2025
2	Umesh Nagora	Studies of density build-up during plasma initiation in Aditya-U Tokamak	IPR/RR-1713/2025
3	Sameer Kumar	Application of function Parametrization for plasma position estimation in Aditya-U Tokamak	IPR/RR-1714/2025
4	Srikanta Sahu	Behaviour of magneto-convective fluctuations in MHD duct flow under differently heated walls and applied magnetic field direction	IPR/RR-1715/2025
5	Ramkrishna Rane	Electrochemical Corrosion Investigation of Plasma Nitrided Ti-6Al-4V Alloy in Different Simulated Solution	IPR/RR-1716/2025
6	Akshaya Kumar Shaw	Fluid Simulation of Magnetized Plasma Sheaths in a Collisional, Multi-component Dusty Plasma Incorporating Non-thermal Electrons and Ionization Effects	IPR/RR-1717/2025
7	Arpita Vipat	Liquid metal flow analysis in a duct with sudden expansion under inclined magnetic field	IPR/RR-1718/2025
8	Kunal Trivedi	Microstructure and Thickness Dependent Steam Oxidation of TiN Coating Developed on Zircaloy-4 using Cylindrical Magnetron Sputtering	IPR/RR-1719/2025

**तकनीकी प्रतिवेदन, जनवरी 2025/ Technical Reports, January 2025**

<b>S. No.</b>	<b>Author</b>	<b>Report title</b>	<b>Report Number</b>
1	Pankil Shah	Experience and Challenges involved during Alignment of Electrical Motors to the Helium screw Compressors at IPR	IPR/TR-832/2025
2	Aritra Chakraborty	A Simulation Analysis of 300 kV DC Power Supply for Neutral Beam Injector Accelerator Grid	IPR/TR-833/2025
3	Anitha V. P.	Design and Development of a Line-Type Pulsed Modulator Driver for S-Magnetron for Microwave Plasma Interaction Experiments in SYMPLE	IPR/TR-834/2025