DEVELOPMENT AND QUALIFICATION OF PASSIVE ACTIVE MULTIJUNCTION (PAM) LAUNCHER FOR LHCD SYSTEM OF ADITYA -UPGRADE TOKAMAK

(FIP/P3-53)

Yogesh M. Jain et al.
Institute for Plasma Research, Gandhinagar, India.
Homi Bhabha National Institute, Mumbai, India.
Email: yogesh.jain@ipr.res.in

- The upgradation of the ADITYA Tokamak gives an opportunity to upgrade the LHCD system.
- A PAM launcher is proposed to be installed on the ADITYA-U tokamak replacing the grill launcher as it increases the coupling of RF power at plasma densities close to cut-off density.
- The design of the launcher to deliver 250 kW of RF power at 3.7 GHz is completed and its fabrication and qualification tests are underway
- ➤ The paper benchmarks two major fabrication techniques to be employed in the development of the PAM launcher.
- ➤ The development and qualification of two PAM launcher components namely a single block machined tapered divider and plate fit prototype step phase shifter is discussed.