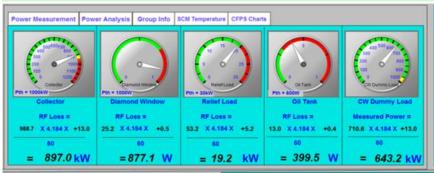
## Technology Transfer of Plasma Activated Water (PAW) Generation System

A technology transfer agreement was signed between IPR and M/s Pruthvi Beverages Private Limited, Gandhinagar on 02nd June, 2022 for a system to generate plasma activated water (PAW). PAW has anti-microbial properties and can be useful in various applications related to sterilization/sanitization. The licensee Industry is the second organization to which PAW generation technology has been transferred within a year.



## **Integrated Testing of Gyrotron at ITER-India Gyrotron Test Facility**

ITER India, as a part of its in-kind contribution to the ITER project, has to deliver two high power (1MW/1000 sec) 170 GHz Gyrotron RF source sets. An ITER-India Gyrotron Test Facility (IIGTF) has been established to enable integrated testing and performance demonstration of high power gyrotrons procured for the purpose. This facility hosts indigenously developed high voltage power supplies (55kV, 110A), channel control system and cooling systems (flow and pressure), which are interfaced with the gyrotron assembly during the tests. During a recent acceptance test campaign, , a maximum of 650 kW for 1000 s and 860 kW for 260 s at 170 GHz has been delivered into a dummy load for the first time in India. The achieved performance is at par with similar gyrotron performance demonstrations in Japan and Europe. In addition to this very important demonstration, IIGTF now stands commissioned for testing of high power long pulse ECRH sources in future.





(L) Calorimetric power and Delta T measurement graphs of the Gyrotron test (R) Test Gyrotron at ITER-India lab, IPR





**Ms. Sukiriti Hans** (Research Scholar) and Dr. Mukesh Ranjan from FCIPT attended the 22<sup>nd</sup> International Conference on Ion Beam and Materials Modifications that was held at Lisbon, Portugal from 10-15 July, 2022. Ms. Sukriti was awarded the best Oral presentation Award on her presentation entitled "Role of Ion Beam Parameters in the Evolution of Selforganized Nanoripple Superimposed by Triangular Features". Dr. Ranjan also gave an invited talk entitled "Low Energy Ion Produced Nanostructuring for Surface Wettability and Sensing Applications in Healthcare" at this conference.

## International Yoga Day @ IPR

The International Yoga Day (IYD) was celebrated by IPR Staff Club on 21<sup>th</sup> June 2022 at the IPR Guest during 7:15 to 08:30 AM. Yoga Guru, Ms. Vipula Pradhan of Art of Living Foundation, was invited to conduct yoga session for IPR staff members at the lawns of the Guest House. Shri Niranjan Vaishnav (CAO) welcomed the IPR staff and he highlighted the role of yoga in post-covid world. After the yoga session, the program concluded with light refreshments. As a part of the IYD, T-shirts were distributed to the staff members and a poster competition entitled "Yoga and You" was organized to spread the awareness of Yoga.





