



Centre for Green Chemistry and Sustainability (Pioneering Scientific Excellence-PSE)

About

The department of Chemistry proudly hosts the **Centre for Green Chemistry and Sustainability**, a pioneering initiative dedicated to addressing pressing environmental challenges through innovative chemical science solutions. This center fosters interdisciplinary collaborations and builds partnerships with renowned institutions, organizations, and NGOs on both national and international fronts, driving sustainable advancements for a better future.



Front View of CGCS



Centre for Green Chemistry and Sustainability is also Madhya Pradesh Chapter of Green Chemistry Network Centre, Delhi established by Prof. R.K. Sharma by collaboration of American scientist Prof. Paul Anastas and Prof. John C. Warner. Prof. Paul Anastas, often called the "father of green chemistry."



Prof. Paul Anastas



Prof. John C. Warner



Prof. R.K. Sharma



Product Development

Product Development Plastic Waste Utilization: Manufacturing of hydrocarbon oil from plastic waste which is being utilized in paint production





Plastic Waste Bricks

Manufacturing bricks for building construction using plastic waste, sand, fly ash, and coke with the above machine (R&D stage)

Manufacturing of Night Glowing Emulsion Paint A newer utilization of colorless hydrocarbon oil obtained from plastic waste



- This paint is free from toxic heavy metal
- Cost effective
- Eco-friendly
- High durability

Utilization of Bio-Waste Manufacturing of Green Distemper Paint and Wall Putty

Arsenic Removal Device Assembly for arsenic removal from drinking water

We have developed an assembly for removal of arsenic from drinking water and published patent of this assembly

Mechanical grinding assisted microwave assembly

Development of New Green Method for Synthesis of Organic/ Inorganic Compounds

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Technology of Smart Humidity Detector has been transferred to ISO- Tech Pvt. Ltd.

They manufacture humidity detector using our technology and a sample of the instrument provided to us which is available at our centre



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Yadav

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