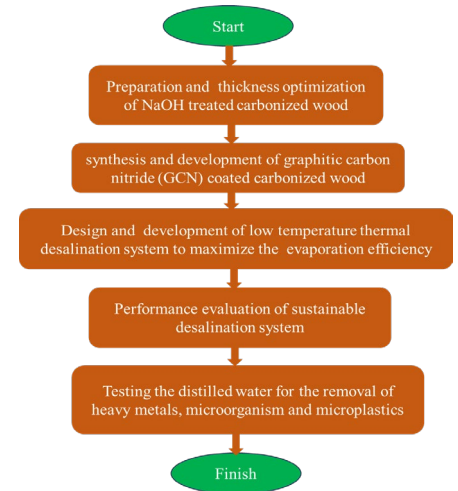
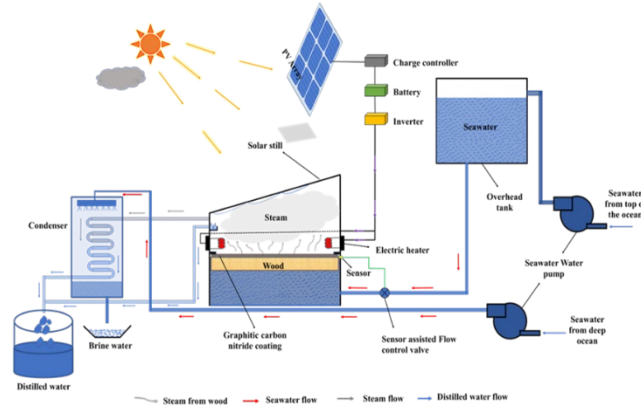


Graphitic carbon nitride coated carbonized wood evaporator for effective low temperature thermal desalination: Removal of microplastics and heavy metals

Graphical Abstract/ Layout



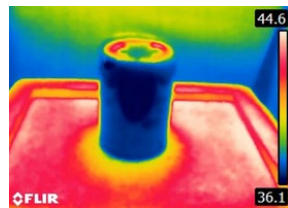
Principal Investigator
Dr. R. Kamatchi
Professor
School of Mechanical Engineering
(SMEC)

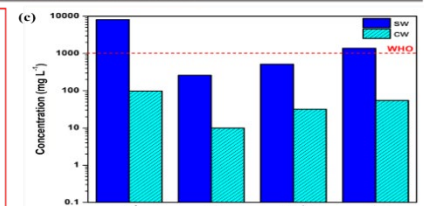
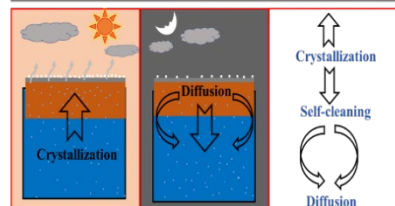
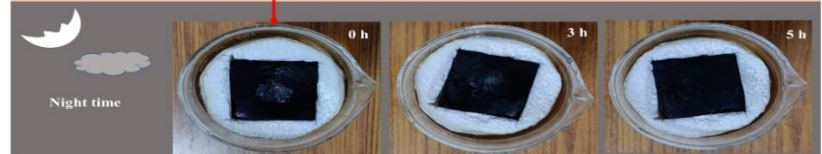
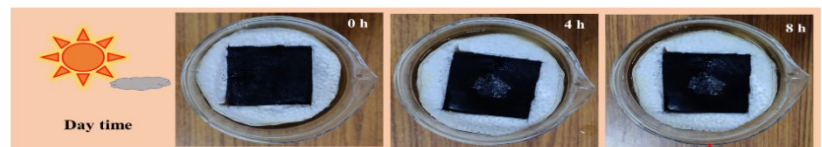


Project Description:

1. To improve the capillary action by coating graphitic carbon nitride (GCN) on NaOH treated carbonized wood evaporator
2. To optimize the thickness of wood interface under controlled environment.
3. To design and develop a low temperature thermal desalination system with fabricated GCN coated wood evaporator to maximize the efficiency.
4. To evaluate energy, exergy and environmental analysis of sustainable desalination System

Products/ Instruments/ Results/ Outreach Activities (Pictures)





Name of the Funding Agency
Ministry of Earth Sciences

Name of the Scheme
Deep Ocean Mission (DOM)

Sanctioned Amount (in Rupees)
Rs. 32,78,000

Duration of the Project (years)
2