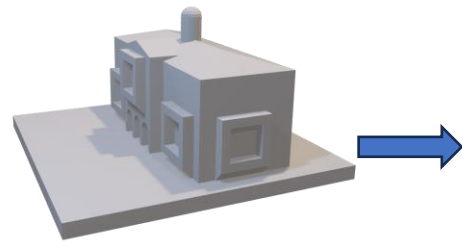


Photocatalytic removal of antibiotics using Carbon Nitride-plastic char composites

Kiruthika Eswari

Environmental Engineering, IIT Madras

Objective : Removal of antibiotics from aqueous matrix by photocatalysis using plastic waste derived char and assess the impact on antibiotic resistant bacteria, antibiotic resistance gene

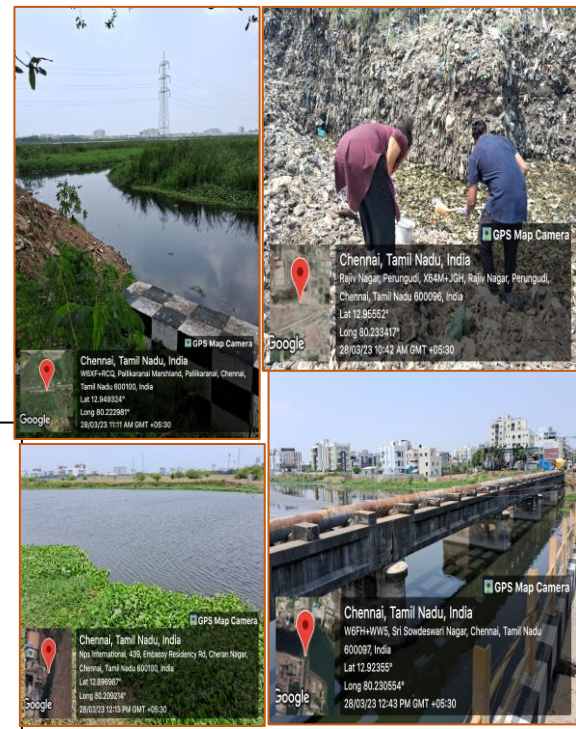


AMR – a global health threat

Aberrant use and manufacture of antibiotics – residential use, poultry, aquaculture, pharma industries

Inefficient removal in the conventional treatment plants

AMR Dissemination to Environment



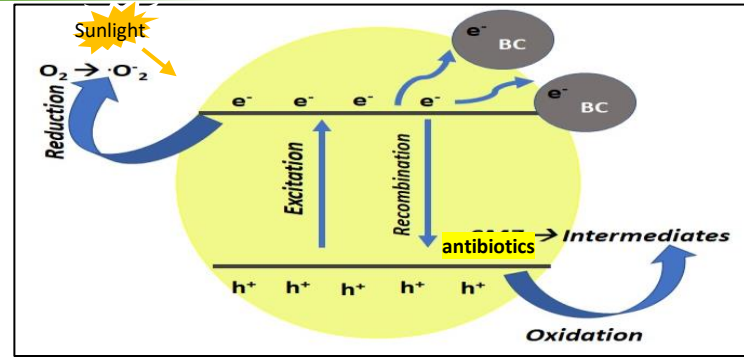
AMR studies in Pallikarani



PLASTIC WASTE



PLASTIC WASTE DERIVED CHAR
Used to enhance photocatalytic behavior of graphitic- Carbon nitride



Mechanism