

## WASTE WATER TREATMENT OF SANGAM UNIVERSITY WITH THE HELP OF NATURAL FILTERS

\*Pankaj Sen and Rajeev Mehta

*Department of Chemistry, Sangam University, Bhilwara, Rajasthan*

*E-mail – pankaj.sen@sangamuniversity.ac.in*

### **Abstract**

With an increasing population, pollution is a serious concern in our country. Various types of pollution arise under different circumstances and water pollution is one of them, increasing day by day due to improper management of wastewater and also a lack of plan for reutilizing it. Wastewater is produced in our daily life through domestic use and it is necessary to treat this wastewater because gallons of water are drained off as waste affecting the land and groundwater quality. Providing reliable and low-cost wastewater treatment techniques in rural areas is a challenge, and therefore a natural filter was prepared by using naturally occurring and activated charcoal of Neem Bark and Coconut Fiber. Parameters like pH, TDS, Alkalinity, conductivity, and hardness were examined which showed tremendous improvement in the quality of water. The treated water was clear, odorless and other parameters were controlled in such a way that the treated water could be reutilized for domestic, agricultural, as well as industrial purposes.

*Keywords:* Activated Charcoal, Adsorbent, Domestic, Natural filter, Waste treatment