

A RESEARCH PAPER ON REMOVAL OF FLUORIDE FROM DRINKING WATER USING VARIOUS CHEAP ADSORBENTS

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ABSTRACT

Excess availability of fluoride in drinking water is very common in India. For removal of fluoride from drinking water many adsorbents are using from the past but due to many demerits still we need a perfect method for this. In this research work we have been applied some cheap methods for the de fluoridation. The using adsorbents are Fly ash, red mud, marble powder and mixture of Fly ash and red mud. Here used fly ash, generated from Chula. Red mud was collected from Hanumangarh District. And pieces of marble collected from construction area and crushed for use in the laboratory. In this research work Ash, Red mud, Marble powder or Mixture of Ash and Red mud are mixed with fluoridated water after filtration the fluoride was analyzed by using ions selective electrode method. After the analysis we found all methods removes fluoride from drinking water but the results were found from Fly ash much satisfactory.

KEYWORDS: Adsorption, De fluoridation, Fluoride, Fly Ash, Marble Powder P^H , Red Mud