**REMOVAL OF HEAVY METALS FROM THE BED SEDIMENTS OF BRAHMANI RIVER BASIN**

**ABSTRACT**

The presence of heavy metals in river water, which is regular in mechanical and urban ranges

including mining commercial ventures, represents a destructive impact to human wellbeing and

nature's domain. There is a high probability of pollution of both surface and river water because

of the release of heavy metal polluted wastewater. Evacuation of such heavy metals has been an

examination center to plan a productive medicine framework. Some late innovations that address

this issue are prone to be extremely unreasonable. Anyway here we are attempting to evacuate

these heavy metals specifically from river water.

Before removals these heavy and harmful metals we are first determining the physical

characteristics of the bed sediment for each site. This will give us the ideas about the differences

in physical characteristics for the different sites of the same river as well as the particle sizes

distributions in the bed sediment.

Removals of heavy metals can be done using many methods. Many of those are very expensive.

One of the simplest methods to remove these metals is **Adsorption method.** These metals can be

directly adsorbed by using proper adsorbent. For different metals adsorbent may be different,

but in some cases two or more metals can be adsorbed by same adsorbent. For different pH the

efficiency of adsorption is different but we are removing these metals directly from river bed

sediment, so all the experiment are done in natural pH.