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BIOSORPTION EFFICIENCY OF BLUE-GREEN ALGAE ON Cr(VI) IN SEWAGE AND INDUSTRIAL WATER

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ABSTRACT: An experiment was conducted for biosorption efficiency of blue-green algae collected from biomass habitats of Allahabad and adjoining areas, BGA samples were isolated and scrutinized for the specific strains for mass culture phosphorus with sewage and industrial water. Heavy metal concentration in the samples were measured with variance spectra on AAS/100/200 FAAS. The concentration of Cr(VI) in the control samples was not treated when compared with the concentration in IFFCO, Phulphur and tertiary treated water sample to (0.05 to 0.03 ppm). The bioremoval / biosorption efficiency was 100% for both the samples. The results obtained could prove very useful and less expensive for recommendation of toxic levels of heavy metal cations from various water bodies.

Key Words: Biosorption efficiency, blue-green algae, heavy metal, biomass, bioremoval.