



**PHYTOREMEDIATION OF HEAVY METAL CONTAMINATED SOILS BY
ABUTILON INDICUM**

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ABSTRACT

*Heavy metals are the main group of inorganic contaminants and a considerable large area of land is contaminated with them due anthropogenic activities like fertilizers and emissions from municipal waste incinerators, car exhaust, residues from metalliferous mines and smelting industries, sludge or municipal compost and use of pesticides. The heavy metal toxicity causes serious threats to human and animal health due to their long term persistence in the environment. The technique using hyperaccumulator plants in phytoremediation is a cost-effective and new technology, to remediate the contaminated soil. In the present study a pot experiment was conducted using *Abutilon indicum* a shrub species for phytoremediation of Pb, Ni, Zn, Cd and Cr contaminated soils. Based on the BCF and TF the plant species recommended for lead, nickel and zinc Phytoextraction processes and cadmium and chromium Phytostabilization processes.*

Key words: *Phytoremediation, Abutilon indicum, Bioconcentration Factor, Translocation Factor*