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STUDY OF NATURAL RESISTANCE AND PHYTOREMIDIATION OF HEAVY METALS [Pb, Cd, Ni] IN INDIAN NATIVE PLANTS

(*Ricinus communis, Brassica juneca)*

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ABSTRACT

Heavy metals are the most important contaminants in the soil. Several methods are used to remove the heavy metals from the soil but using plants is easier and cost effective. Removal of heavy metals from the environment using plants is called phytoremediation. Accumulation of metals in the soil causes adverse effects; therefore removal of these metals is very important. In the present study, we have used Indian native Castor and Mustard plants for the removal of heavy metals from the soil. The Heavy metals (Pb, Cd, Ni) of known concentration were added to the soil in laboratory and the seeds of the two plants were sowed and was grown for three months. After three months when the soil was analyzed there was a decrease in the concentration of heavy metals in the soil of both the plants.

KEY WORDS: Phytoremediation, Indian native castor and mustard plants, lead nitrate, cadmium sulphate, nickel sulphate.

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