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Cadmium Toxicity Accompanies Economic Loss to the Fish Farmers: A Review

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Abstract: One of the greatest problems on the earth is pollution of Potentially Toxic Elements'. Discharges of improperly treated industrial wastewater comprises of Potentially Toxic Elements'. The existence of Potentially Toxic Elements in water is considered as a threat to the fish population because they accumulated heavy metals. Cadmium is a common Potentially Toxic Elements' having the potential for bioaccumulation. Cadmium metal in the form of particulate matters is released into the water body from various sources and settles down as sediments, which becomes important metal sink in an aquatic environment. When this sediment bound pollutants are taken by the aquatic organism, Cadmium enters into the food chains. This heavy metal is accumulated and biomagnified by aquatic organisms and transferred from the lower strata to the higher strata. Fish possess the potential properties of biomagnification and act as a bioaccumulator. When water is cadmium heavy metal polluted, Cadmium causes liver, intestine, kidney, nerve and brain damage in the fish, including hematological disorder, structural and pathomorphological alterations in various fish organs. Thus, such carcinogenic and toxic effect of Cadmium affects the fish population and results in economic loss to the fish farmers

Keywords: **potentially toxic elements' pollution, bioaccumulation, biomagnification.**

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1. Introduction

Potentially toxic elements' (PTEs) pollution is one of the greatest problems in our world now-a-days. Due to industrialization and modernization an increase in pollution containing PTEs is observed.