

Comparative Study of the Mycoremediation of Wastewater by using *Pleurotostreatus* and *Calocybeindica* Mushroom using Mycofiltration Technique

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Abstract—Mushrooms are utilized as a food since a long time due to their flavour and high protein content. Mushrooms are also used as a mycoremediation tool for the removal of various types of toxic substances from wastewater. Mycoremediation depends on the proficient enzymes secreted by mushroom for the removal of different types of toxic contaminants and recalcitrant pollutants present in wastewater. Mycoremediation offers a productive and practical approach for the treatment of wastewater and makes it appropriate for agricultural purposes.

In the present study, mycoremediation of wastewater was performed by two edible mushrooms i.e. *Pleurotostreatus* and *Calocybeindica* by mycofiltration technique. The findings of the present study revealed that mycelium of the two edible mushrooms prove effective to minimize various physico-chemical parameters of water.

Keywords: Mushroom, Mycofiltration, *Pleurotostreatus*, *Calocybeindica*.