# PATENT NO. 332014 BIOREMEDIATION OF REACTIVE DYES WITH PAENIBACILLUS SP.

# APPLICATION NO. 2483/DEL/2014

# APPLICANT

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### ABSTRACT

The present invention relates to a novel process for decolonization of colored effluent of textile mills, dye making industries, paper and pulp industries using a novel bacterial sp., isolated from dye contaminated soil and deposited in Microbial Type Culture Collection and Gene Bank, Institute of Microbial Technology, Chandigarh (India) under the accession number MTCC 10625. Current invention discloses specifically undiscovered activities of the Paenibacillus alvei MTCC 10625 in decolorization of reactive dyes from aqueous synthetic solution and wastewater. The accompanied process invention shows that simple biological treatment could also produce consistently effective results in treating wide spectrum of dye wastewater under greatly varied conditions.

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# CLAIM 1

A biologically pure culture Paenibacillus culture having all identifying characteristics of the Paenibacillus strain deposited with Microbial Type Culture Collection and assigned accession number 10625, or active mutants thereof.