

# EARTH SCIENCE, RECYCLING & SPACE TECHNOLOGY

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### BIOGRAPHY

Ravi Vital Kandisa completed his master degree in the field of Biotechnology from GITAM University, India and worked at Krebs Biochemicals and Industries Ltd., as a Junior Officer in the R&D for more than a year. He finished his MBA from Andhra University and worked at Biotechnology Industry Research Assistance Council (BIRAC), set up by Department of Biotechnology (DBT), Government of India as a Manager for Incubation and Technology Transfer, Commercialization & Communication. Currently, he is pursuing his PhD and guiding two students at postgraduate level and more than five students in bachelor degree. His current research is under Dr Narayana Saibaba KV in the area of Environmental Biotechnology and his research work mainly focused on Textile industry dye removal process by adsorption process. He has attended more than 20 national and international conferences and has published over five publications in international journals.

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### METHYLENE BLUE DYE REMOVAL USING NATURAL LOW COST ADSORBENT: ADSORPTION ISOTHERM STUDIES

Textile industry is one of the fast growing industrial sectors which are consuming and polluting large volumes of water. Four isotherms Langmuir isotherm, Freundlich adsorption isotherm, Tempkin isotherm and Dubinin–Radushkevich isotherm were studied to evaluate the adsorbent efficiency in removal of methylene blue dye from textile industry waste water. Among all the isotherms named Freundlich adsorption isotherm was found to be the best fit model with regression value of  $R^2 \geq 99$ . Isotherm studies proved that *Vigna Trilobata* pod can be used as a natural low cost adsorbent for removal of methylene blue dye.