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Cleaner technologies for conservation of selected environmental parameters

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This paper describes the status of the lakes in and around the study area, which is located in Mandya district in Karnataka, where sand mining and quarry activities are carried out in a large scale. Due to the exploitation of the natural resources the inland fresh water ecosystems in the lakes/ tanks in and around the study area are being increasingly subjected to greater stress due to various human activities and constant introduction of toxic materials and pollutants into their habitat. The discharge of domestic and non-domestic pollutants to fresh water bodies have enriched them with nutrients with consequent deterioration of water quality accompanied by undesirable growth of microorganisms. Protection of lake water quality aquatic life and diverse water life is more complicated in lakes or bound waters than in running water. As a result of repeated misuse, fresh water lakes become deteriorated in quality and slowly Oligotrophic lakes become Eutrophic. Pollution and contamination may cause enormous losses to the environment and the ecosystem on the whole, for instance. The Dal Lake in Kashmir; The Pichola Lake, The Fatehsagar Lake and The Udaisagar Lake in Udaipur city, to name a few. The study consisted in making field observations, status of the lake with reference to pollution and encroachment, salient features of the lake and simple lake water quality analysis. The eight tanks that were chosen for study. Based on the status of these lakes, further developments, suitable conservation measures have been discussed for the upkeep of the tanks' water quality and the quality of the surrounding environment, by taking into consideration, the limitations and the local factors. The studies have been supplemented with remote sensing and GIS studies.

Biography

Srivas M C is a student of the Undergraduate programme in Telecommunications at B.M.S College of engineering, Bangalore, Visvesvaraya technological university. He has keen interest in Environmental protection and conservation, worked on the reconnaissance survey of lakes.

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