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Application of cleaner development mechanisms

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The paper describes the studies conducted on application of cleaner development mechanisms and its impact on environment in three industrial areas at different geographical locations. The industrial areas under investigation were a textile industry, pharmaceutical industry and a metal plating industry. The studies involved industry specific issues such as cleaner development mechanisms, substitution of process chemicals and use of alternate raw materials and process modification. The characteristics under consideration varied from energy consumption, water balance, hazardous waste handling and ambient noise levels. The studies were supplemented with estimation of carbon credits and economics. Studies were further facilitated by GIS tools involving GPS surveys, remote sensing and GIS to assess the impact on ground water quality by sampling and characterization of 90 ground water samples around these industrial areas spread on a vast geographical area. Based on these studies, need based solutions have been arrived to minimize environmental damage and strengthen green initiatives which have brought a distinct change in the quality of work practices in these industrial areas and community at large.

Biography

Sampath kumar, MC, is Faculty at the Civil Engineering Department at BMS College of Engineering, Bangalore, India. He is involved in teaching, research and environmental application activities. His area of interest is in the field of remote sensing and GIS for natural resources conservation.

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