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Assessment of Water Quality of River Sutlej in Himachal Pradesh and Punjab (India) Using Statistical Tool

Devendra Kumar Soni*, Pradeep Kumar Mishra, Ramesh Kumar Mishra and Poonam Pandey

*Central Pollution Control Board, Regional Directorate, Pick Up Bhawan, Gomti Nagar, Lucknow, U.P, **INDIA**

Email: soni_d_k@rediffmail.com

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ABSTRACT

Water resources are important component in the development of the country which required utmost care for its qualitative and quantitative management. Present study focused on the assessment of water quality of river Sutlej in its pristine nature as well as in urban area. Characterization of the water quality at different location has been carried out for different pollution sensitive parameters which have been expressed numerically using statistical tools in terms of water quality index for easy understanding and better management of water quality. The study reveals that the water quality of river Sutlej has been deteriorated progressively in downstream in comparison to upstream i.e., at Olinda. Deterioration in the water quality of river Sutlej caused by the mixing of a drain emanating from an industrial area located in Himachal Pradesh as well as from the urban development.

Keywords: WQI, BOD, Sutlej, Pollution load.
