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SEASONAL VARIATIONS IN PHYSICO-CHEMICAL CHARACTERISTICS OF WATER QUALITY OF GURUPURA RIVER IN MANGALORE, SOUTH COAST OF INDIA

Jayalatha N. A ¹and Veena Kumara Adi*

¹Assistant Professor, Civil Engineering Department, Alva's Institute of Engineering & Technology, Moodabidri.

**Associate Professor, P.G Department of Environmental Engineering, Civil Engineering Department, Bapuji
Institute of Engineering and Technology, Davangere 577004,
Karnataka, INDIA*

E-Mail: drveena.adi@gmail.com

ABSTRACT:

River water is the major source of water supply for domestic, industrial and agriculture purpose in urban and rural parts of India. Rain play a pre vital role in fluctuates in the Physico-Chemical parameters. Thus seasonal variation of physico-chemical parameters were studied for water samples of Gurupura River, Dakshina Kannada District, and South coast of India. The study was conducted between the months of June 2015 (monsoon), September 2015 (post monsoon), December 2015 (winter) and March 2016 (summer). The river flows through industrial area so, it could be contaminated by the industrial effluents. The Physico-chemical parameter values are compared with the standard desirable limit prescribed by different agencies. The Physico-chemical parameter such as Total Dissolved Solids, Turbidity, magnesium, Chemical Oxygen Demand exceeded the standard limits all through the year. Except in Post monsoon, the river water sample for parameters like Total hardness, Calcium, Chloride and Sodium exceeded the standard limits. Our results intimate that the Gurupura river, except for the post monsoon period is heavily polluted all through the year and worst in summers.

Key words: Gurupura River, Seasonal Variation, Physico-Chemical Parameter, Water sample.