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A CASE STUDY OF THE JAMWA RAMGARH WETLAND WITH SPECIAL REFERENCE TO PHYSICO-CHEMICAL PROPERTIES OF WATER AND ITS ENVIRONS

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ABSTRACT

The wetland of Jamwa Ramgarh Lake, located at Jaipur, Rajasthan, India, covers an area of 297 square miles. This paper advocates habitat conservation and ecological studies with special reference to the physico-chemical characteristics of water. The constituents monitored included temperature, pH, EC, TDS, DO, alkalinity, hardness and chloride ion. A significant variation in these parameters was observed throughout the study period. The pH of the Ramgarh lake water ranged from 6.8 to 8.5, which may be due to the high buffering capacity of the system. The electrical conductivity values ranged from 500 to 700 micromhos/cm, with a maximum in summer and a minimum in the monsoon season. Alkalinity was high during the summer season followed by a steep fall in the monsoon. Total alkalinity values fluctuated from 102.6 to 215 mg/l, indicating that the water is hard. If the present conditions continue for a long period, Ramgarh Lake may soon become ecologically inactive.

Reference: Moundiotiya, C., R. Sisodia, M. Kulshreshtha and A.L. Bhatia; A Case Study of the Jamwa Ramgarh Wetland with Special Reference to Physico-Chemical Properties of Water and its Environs, *Journal of Environmental Hydrology*, Vol. 12, Paper 24, December 2004

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