



Studies on Heavy metal Contamination in Poovar Estuarine water, Kerala, South west coast of India

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Abstract : Analysis of heavy metal concentration in Poovar estuarine water was done for a period of one year from February 2016 to January 2017. The studies showed maximum concentration in the monsoon season for Iron, Manganese, Zinc, and Copper. The variation in the monsoon season may be due to huge surface runoff. Maximum concentration of Cadmium was observed in the post monsoon season and maximum concentration of lead was observed in the pre monsoon season. Minimum concentration of all the metals was observed in the pre monsoon season except lead. Lead concentration showed its minimum in the post monsoon season. The concentration of Iron, Lead and Copper exceeded the acceptable limits as per Bureau of Indian Standards. The value of Zinc was within the acceptable limit. Cadmium showed slightly higher value from the acceptable limit in few stations during monsoon and post monsoon seasons. For manganese the value observed for pre monsoon season in station I only falls below than acceptable limit.

Key Words : Concentration, Season, Acceptable, environment.

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