

WATER QUALITY INDEX OF CHITRAPUZHA RIVER, ERNAMKULAM, KERALA, INDIA

G. DEEPA¹ & P. N. MAGUDESWARAN²

¹Department of Chemistry, MES College of Engineering, Kuttippuram, Kerala, India

²Department of Chemistry, Hindustan College of Engineering and Technology, Coimbatore, Tamilnadu, India

ABSTRACT

The present investigation was carried out for determining the various physico-chemical parameters and biological characteristic of Chitrapuzha River for two different seasons rainy and summer in Ernamkulam district. The following parameters were analyzed DO, FC, pH, BOD, Phosphate, Nitrates, Turbidity and TDS. All the measured parameters were found to be very high compared to limit prescribed by WHO, and thereby unfit for both drinking and irrigation. The Chitrapuzha River has been falling severe anthropogenic activities mostly due to industrial wastes.

KEYWORDS: Physico-Chemical Parameters, WHO Standard, Chitrapuzha River