



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.8, pp 474-484, 2017

Experimental study on water quality assessment and improvement of Thamirabarani river course

Muthuraman P¹, Anushiya Kumari M², Durka Devi A², Jeba Jeslin A²,
Rebeckal J², R.Anuradha^{3*}

^{1,2}Department of Civil Engineering V V College of Engineering, Tisaiyanvilai Tirunelveli,
Tamilnadu, India

³Department of Civil Engineering SNS College of Technology, Coimbatore
Tamilnadu, India

Abstract : Surface water is one of the major sources of water. The water quality of Thamirabarani River is an important domestic and portable water source of Tirunelveli and Tuticorin Districts. The length of the river is 125Km. The River is facing threats due to rapid growth of Population, Urbanization, Industrial wastes from urban Infra structure and Agriculture. The water samples were collected from various locations. The present study has been undertaken to assess the Water Quality and to improve the Thamirabarani River Water. The physical and chemical parameters namely pH, Turbidity, Hardness, Chloride, Dissolved oxygen, Total, Volatile and Fixed solids, Sulphate, Fluoride and Nitrate were analyzed. The main objective of this project is to assess the physical and chemical parameters in Thamirabarani River by obtaining samples from eight different station and conducting laboratory experiments. To study the techniques involved in the collection of samples from surface water. The main aim of this study is to remove the impurities present in the Thamirabarani River Course effectively.

Keywords : Water Quality, Thamirabarani, Fluoride removal, Adsorbents.

R.Anuradha *et al* /International Journal of ChemTech Research, 2017,10(8): 474-484.
