



Water Quality Analysis of River Ganges at Different Ghats in Patna, Bihar

• Kriti Kumari • Nibedita Nayak • Pallavi Kumari
• Sister M. Stuti A.C.

Received : November 2017

Accepted : March 2018

Corresponding Author : Sister M. Stuti A.C.

Abstract : *In the present paper, an attempt has been made to analyze the changes from August-September in 2017 on the physicochemical properties of water of the River Ganges at three selected sampling sites i.e. Kali Ghat, Krishna Ghat, Gandhi Ghat. The physico chemical parameters such as Temperature, pH, Turbidity, Electrical Conductivity, Total Dissolved Solids, Dissolved Oxygen, Chemical Oxygen Demand, Biological Oxygen Demand, Chloride and Coliform were evaluated at the selected ghats. It was found that Kali Ghat had the maximum values of EC, TDS, DO, COD, BOD indicating the higher pollution which is attributed to the disposal of untreated sewage and local discharge of wastes. Regular monitoring of the River Ganges water quality is necessary to*

have a check on surface water pollution for the sake of healthy living of human.

Keywords : *Turbidity; Electrical Conductivity; Total Dissolved Solids; Dissolved Oxygen; Chemical Oxygen Demand; Biological Oxygen Demand; Chloride; Coliform.*

Introduction :

Ganges is a trans-boundary river of Asia, which flows through India and Bangladesh. It flows south and east through the Gangetic plains of North India into Bangladesh, where it empties into the Bay of Bengal (Bricker and Jones 1995).

The Ganges River pollution is now at such a high level that the amount of toxins, chemicals and other dangerous bacteria found in the river are now almost 3000 times over the limits suggested by WHO as safe. The river directly and indirectly affects the largest population of any river in the world with over more than 420 million people who rely on it for food, water, bathing and agriculture and that is not to mention the tens of millions of pilgrims who venture to India's most holy of rivers to bathe and worship (CGA 1986; Das 2011).

Kriti Kumari

B.Sc. III year, Zoology (Hons.),
Session : 2015-2018, Patna Women's College,
Patna University, Patna, Bihar, India

Nibedita Nayak

B.Sc. III year, Zoology (Hons.),
Session : 2015-2018, Patna Women's College,
Patna University, Patna, Bihar, India

Pallavi Kumari

B.Sc. III year, Zoology (Hons.),
Session : 2015-2018, Patna Women's College,
Patna University, Patna, Bihar, India

Sister M. Stuti A.C.

Assistant Professor, Deptt. of Zoology,
Patna Women's College, Bailey Road,
Patna-800 001, Bihar, India
E-mail : mstuti07@gmail.com