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ORIGINAL ARTICLE

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PHYSICO-CHEMICAL ANALYSIS OF THE MUHURI RIVER, TRIPURA, NORTHEAST INDIA

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Jatan Debnath

ABSTRACT

Healthy and clean water is the soul of our life. But surface water is usually subjected to changes due to human interventions. Muhuri is one of the major important rivers of Tripura, located in the southern part of this state. The river receives large quantities of untreated sewage from households; agricultural runoff consists of lots of pesticides, fertilizers, sediments; oil and waste materials from the constructional areas. These activities are one of the most important causes for the degradation of water quality, which can create threat for public health.

Article Indexed in



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REVIEW OF THE ARTICLE

Physico-chemical Analysis Of The Muhuri River, Tripura, Northeast India

Jatan Debnath , Istak Ahmed and Nibedita Das (Pan)

Title and Abstract:

The title was clear and well articulated. The abstract was complete and essential details were presented. The present study has been done to study Physico-chemical Analysis Of The Muhuri River, Tripura, Northeast India.

Introduction:

The river collects large amount of human pollutants like domestic waste, municipal sewage from the municipality, agricultural run-off containing pesticides and waste materials from construction sites which consequently disturb normal water quality of the river Introduction was justifying.

Reference to the Literature and Documentation:

The literature review was up-to-date. The number of references was appropriate and their selection was judicious. The review of the literature was well integrated.

Methodology:

Objectives of the study stated clearly. The water samples were collected on 18th March, 2015 in between 10.00 am to 2.00 pm. Dissolved Oxygen, Biological Oxygen Demand, Chemical Oxygen Demand, Chloride, Hardness, Calcium, Magnesium, Alkalinity, Total Dissolved Load, Total Suspended Solid were analysed according to Standard Method (American Public Health Association [APHA] 1998). Conductivity, pH and Turbidity were analyzed by portable devices. The research design was defined and clearly described, and was sufficiently detailed to permit the study to replicated.

Presentation of Results:

Results were organized in a way that was easy to understand. The amount of data presented was sufficient and appropriate. Tables, graphs, or figures were used judiciously and agree with the text.

Scientific Conduct:

There were no instances of plagiarism. Ideas and materials of others were correctly attributed.

Relevance:

The study was relevant to the mission of the journal or its audience. The study was worth doing. The study addresses important problems or issues; the study was worth doing.

SUMMARY OF ARTICLE

No.		Very High	High	Average	Low	Very Low
1.	Interest of the topic to the readers	✓				
2.	Originally & Novelty of the ideas			✓		
3.	Importance of the proposed ideas		✓			
4.	Timelines	✓				
5.	Sufficient information to support the assertions made & conclusion drawn		✓			
6.	Quality of writing (Organization, Clarity, Accuracy Grammar)		✓			
7.	References & Citation (Up-to-date, Appropriate Sufficient)			✓		

FUTURE RESEARCH SCOPE:

1. Physiocochemical And Microbial Analysis Of Water And Soil Samples.
2. Genotoxic Potential and Physicochemical Parameters of Ganga River in India.
3. Seasonal Effect of Physico-Chemical Parameters .
4. Monitoring and assessment of water health quality in the River, using physicochemical, fish and macro invertebrates indices.
5. The impact of physico-chemical water quality parameters on bacterial diversity.

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