ANALYSIS OF WATER QUALITY DYNAMIC BEFORE AND AFTER IDOLS IMMERSION IN BILASPUR CITY CHHATTISGARH INDIA

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ABSTRACT

Water is without a doubt the most valuable normal asset that exists on our planet. A man can live without nourishment for around two months, yet he can barely make due for three or four days without water. Right now, of Water, were resolved in September-October 2016 from Surface water Bilaspur when Idols Immersion. The outcome demonstrated that in nature of Surface Water of this zone change previously, during and after inundation of Idols. Estimations of Total Solid, Turbidity, TDS and COD increment during and after Immersion of Idols. Extremely high estimation of Turbidity found in surface water during submersion of Idols.

Key point: Idols Immersion, Soil body, Surface Water, Water Quality, water pollution of Bilaspur City,

1. Introduction

Water is life; it is being put to clear utilized by us like drinking, cooking, washing, washing, removal of sewage, water system, creating power in power plants, assembling of various modern items and the removal of mechanical waste. During all these procedure, the poisons are added to the water sources to such a degree, that our 70% of streams and waterways contain contaminated water. Water is widespread dissolvable and subsequently different components are discovered broken down in it. (Jindal Kumar Manoj et al.2014) The physical and concoction properties of water, for example, shading, scent, taste, TDS, Turbidity, suspended solids and compound piece of dirtied water is not quite the same as unadulterated water. Surface waters incorporate the lakes, lakes, stores, waterways and streams and wetlands. The progression of water into and through these surface water bodies originates from precipitation; overflow from dissolving day office and as base-stream from surface or ground water frameworks (Wolf et al. 2002). While surface waters volumetrically hold just a little volume (0.3 percent) of the world's all out freshwater assets, they speak to around 80 percent of the yearly inexhaustible surface and groundwater (Wolf et al. 2002).

Water contamination is the main overall reason for passing's and infections, and that it represents the demise of in excess of 14,000 individuals day by day and 1,000 Indian youngsters pass on of diarrheal disorder each day. Along these lines, having water tests tried consistently is the best way to be certain that the ground water isn't polluted. (Mumtazuddin et al. 2013) According to W.H.O. association, about 80% of the considerable number of ailments in people is brought about by water.

The nature of water is significant for person in light of the fact that for the most part infections happen because of dangerous water and water is contaminated because of human exercises like Immersion of Idols is for the most part answerable for surface water contamination. Water quality methods physical, substance and natural parameters in the event that and change right

now parameter water become contaminated and undependable for drinking or different employments. And furthermore influence the biological system. For the most part individuals are relying upon surface water for some reasons and utilize this water in household reason; additionally for nourishment creation. Point of the investigation is to break down the Water Quality of Surface water after icons drenching and mind full individuals to these sorts of issues which change destructive for our Health just as Environment.

2. Study Area:

The surface water test was taken from Arpa River Bilaspur, Chhattisgarh India. Numerous individuals are remaining close to River and Due to symbols drenching full change the encompassing states of waterway.

Figure1. Map of city of Bilaspur located in Chhattisgarh, India.

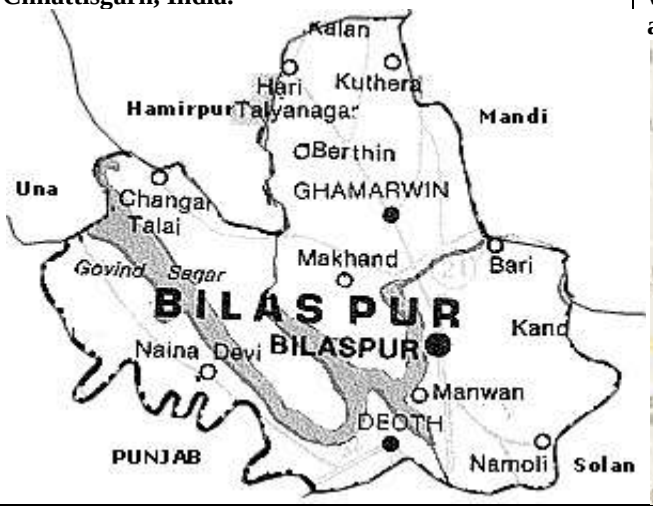
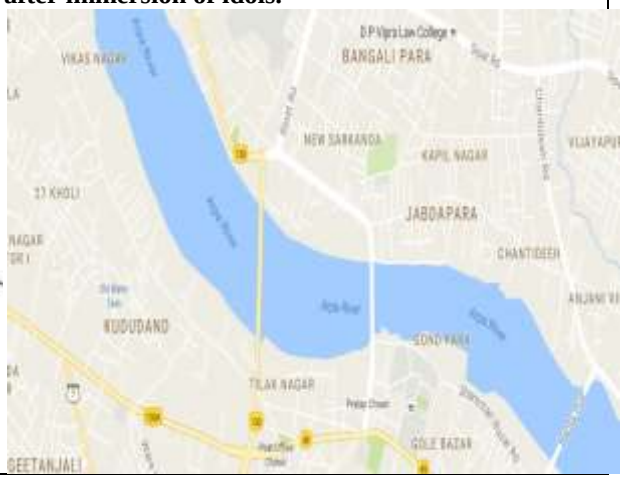


Figure2. Map of Arpa River and sample of surface water taken from this place before, during and after immersion of idols.



3. Water Quality Parameter:

The ground water test was dissected in the research facility of Dr. C. V. Raman University, Bilaspur. Furthermore, decide the some Water Quality parameters, for example, pH, Total Dissolves Solid (TDS), Total Solid, Suspended solids, Conductivity, Dissolved Oxygen (DO), Chemical Oxygen request (COD) and Turbidity by utilizing standard strategies. The Standard Chemicals and reagents use for location of this parameters and Double Distilled Water utilized for Preparation of Standard Solutions.

4. Material and Methodology:

The water test was gathered in September-October 2019, from, Arpa River Bilaspur, Chhattisgarh India. Furthermore, test gather in plastic jug and promptly shipped to the research centre and maintain a strategic distance from any adjustments in Water quality parameters. All parameters decided utilizing standard strategies. pH estimated by pH meter utilizing standard arrangements; Turbidity estimated by turbidity meter; TDS estimated by TDS meter; Total Solids estimated by Classical technique; suspended strong estimated by utilizing (TS-TDS); Sp. Conductivity estimated by conducto-meter; Dissolved Oxygen decide by DO meter; BOD likewise dissected utilizing BOD hatchery.

Table1- Estimation of Water Quality Before, During and After Idols Immersion from Arpa River, Bilaspur City Chhattisgarh India

S. No.	Water Quality Parameters	Arpa River Water from the Idols Immersion Area		
		Before Idols Immersion	During Idols Immersion	After Idols Immersion
1.	Odour	Odourless	Odourless	Odourless
2.	pH	8.0	9.0	8.5
3.	Turbidity	68	96	84
4.	Specific Conductivity	234	262	232
5.	Total Solids	230	320	262
6.	TDS	150	168	152
7.	Suspended Solid	80	152	110
8.	DO	6.8	5.4	5.9
9.	COD	40	64	48

5. Results and Discussion

The estimation of parameters thought about previously, during and after Idols Immersion in Arpa River. All the Water Qualities parameter esteems are appeared in the table-1. The estimation of pH saw as 8.0 in River before submersion and estimation of pH become 9.0 during inundation. Turbidity saw as 68 NTU before Idols Immersion and it additionally become high during and after Idols Immersion 84 and 96 NTU separately. Sp. Conductivity saw as high during submersion. Broken up Oxygen diminishes because of drenching of Idols. Water contamination legitimately showed by estimation of COD (substance oxygen request) and estimation of COD likewise saw as high during and after inundation of Idols as contrast with Before Idols submersion. Complete Solids and TDS values are likewise seen as high during drenching and after submersion of symbols. Estimation of Suspended solids straightforwardly increases Because of drenching of icons which accessible in suspended structure in surface water.

6. Conclusion:

The current study propose that surface water of Arpa River Bilaspur, Chhattisgarh is of high Turbidity and should be dropped down inside recommended restricts before utilizing water for any reason. The BOD esteem saw as high. Additionally propose that coagulants utilized before utilizing. Water from Arpa River Bilaspur territory isn't reasonable for utilizes in any reason. What's more, creators propose to or solicitation or individuals please mindful about these sorts of issues and not submerged symbols in water sources.

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