BASIC VALUES EMBODIED IN INDIAN CULTURE AND THEIR RELEVANCE TO THE CONTEMPORARY SOCIETY

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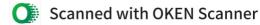
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Partha Pratim Pramanik

Abstract

mythological importance in the Hinduism. India (Ganga, Krishna, and Godavori) and also try to find out its emphasized on the water health quality of some important rivers in caused for the deterioration of water health quality almost all the uncontrolled population growth and rapid rate of urbanization rituals through various aspects. But in post-independence era the ancient times. to the tradition of Hinduism, the practice of using Ganga water, rivers in the faith are the "Saptanadi" across the nation; - Ganga, the rivers were to be adored in Hinduism. The most significant Godavari, Yamuna, Sindhu, Narmada, Krishna, Kaveri. According named after Hindu Goddesses. From the religious points of view, the human society or civilization. In India, played crucial role in the socio-economic and political aspects to the life supporting layer in the Biosphere. River is one of the most the mutual interactions between biotic and abiotic components of important physical as well as From the ancient period to Modern civilized era, Rivers always Harappa Civilization etc. were developed on the bank of Rivers Environment. The ancient civilizations like Environment is a comprehensive term which in general refers of India. Worship to the God and Goddesses has been going on since for the Rivers are very loss The pollution level of the major Indian rivers of aquatic ecosystem. The present much associated with the Hindu a-biotic components of several rivers were Indus Civilization

Introduction

availability of water for industrial needs etc. were the reasons for the development of the cities along the bank of Ganga River best for cultivation, water transport best for communication, of Ganga and its tributaries and distributaries. The fertile loam soil Patna, Bhagalpur, Baharampur etc. cities are located on the bank Rishikesh, Kanpur, Kolkata is located on the bank of Bhagirathi- Hooghly developed on the bank of several rivers in India. For example, Megacity, Metropolitan city, Megalopolis or small towns the rivers. Thus, it has been believed for ages that the progress of was believed that Indus valley civilization was the worshipped by with their Goddesses name i.e. in female form. Historically, this the symbol of God. Here several rivers are named in association the Indian civilization is due to riverbeds. Most of the important considered to be most sacred, and Goddesses Ganga. In Hindu believes, rivers always look after as after Hindu Goddesses. In the Rigveda, there were mentioned personified as deities. In India therewere several rivers named (distributaries of Ganga river). Like the same as the Haridwar, holy rivers India is a riverine country. In Hinduism, rivers are often such as the Sarasvati. Jajmau, Allahabad, Mirzapur, is Personified The river Ganges Ghazipur,

Water Worship: -

Hindu culture of Worship, water is taken in hand while uttering a especially Worship to the God should be done after bath. In the that strength from ancient period to recent time. According to Hindu believed Water has been worshipped to the Indian Hindu society returns after bath. Hindu believed that all ritual

worship In Puranas, of water. this was founded that most elaborate form of Here water were considered as the most

planet. They have various Gods as their presiding Deities miraculous, holy, super natural and divine components of this

Praises water as Apsaras. Goddesses as they quenched the thirst of their cattels. Rigveda worship of Vedic God Varuna. The Rigvedic seers called the waters According to Rigveda, water was associated with

Hinduism and Water: -

prominently since the past are also treated as holy water to the people of south India. Thus the subjugationare is an essential part of Hinduism. This ritual is Ganga or the Ganga of south India. The water of Godavari River Goddesses. The second largest river Godavari is called Dakshin celebrated every year with fanfare. Most of the Hindu Family used is celebrated on the bank of Rivers. Ganga worship and Ganga Gods and Goddesses. The Chhath Puja, the worship of Sun as God, water is used as an essential ingredient in the worship of all Hindu rivers are considered as the symbol of God & Goddesses. believed to have spirituality cleansing power. In Hindu believe Water for their everyday Water in Hinduism has an important place because this and water of Rivers are associated with each other worship to the God

major rivers in India:-Impact of Urbanization on the water health quality the

and size has been leading the cities of India most crowded. 10 cities of India, population density are mentioned below As mentioned, previous the uncontrolled population growth

City	State/UT	Population Density (per sq km)
Delhi	Delhi	29259.12
Bangalore	Karnataka	12000
Hyderabad	Telangana	10477
Lucknow	Uttar Pradesh	1800
Pune	Maharastra	9400

Kolkata West Bengal	Jaipur	Chennai	Mumbai	Amhedabad
West Bengal	Kajasthan	Lamilnadu	Iviaharastra	Gujrat
22000	6500	17000	21000	12000

Source:- census of India,2011

for over population in the city area. etc. attract people for huge level of rural-urban migration caused facilities, unplanned and uneven development all over the country Better facilities for livelihood, employment opportunities, population pressure existed within the city area in India. The above-mentioned figure has been depicted that how

with fresh rivers water. The estimated values of some Physicoday due to high amount of mixing the contaminated liquid waste the chemical and microbial parameters (such as pH, Temperature, into rivers. Thus, the rivers water is going to be polluted day by plants/systems for purifying the liquid waste, before discharge it increasing day by day. Dissolved rivers water in India justified the facts that the pollution level are discharged into the rivers through the existing sewage system of within the city area. The domestic and industrial liquid wastes are Coliform (FC), Conductivity and Turbidity) of the various major Chemical Oxygen Demand (COD), Total Coliform (TC), Faecal various major and small-scale industries located at the peripheral of domestic liquid waste within the urban centers. There cities. Most of the cities have no proper water treatment of the cities. The main commercial activities are also done This phenomenon has been leaded to generate huge amount Oxygen (DO), Biological Oxygen Demand (BOD),

deterioration of water health quality caused for increasing pollution level which endurance power of tolerance to the aquatic The Aquatic Ecosystem of the rivers is at risk. The

Analysis of Water Quality of three major rivers of (Ganga, Godavari and Krishna) through Water Quality

direction to the country. rivers are flowing through different direction of the country, i.e. associated with Hindu believe and culture. The selected three Ganga flowing north to north-eastern direction, Krishna flowing at Krishna are selected for the said study purpose to understand western direction and Godavari flowing at the southern water health quality of the rivers. The rivers are highly he three major rivers of India, namely Ganga,

Ganga River: -

Varanasi U/S (ASSIGHAT), U.P. "Through the cluster analysis of polluted stations that are Kadaghat, Allahabad, Khurgi, Patna U/S, upper course is very much polluted. Through her observation in Bihar, Varanasi D/S (Malviya Bridge), U.P, Indrapuri, Dehri and has been shown that the water health quality of Ganga River at its the bank of it. Smita Jain in her study of "Analysis of Different Water Quality Parameters of Ganga River by Multivariate Tools" Varanasi, Kansi, Venaras and all the holy sanctuary are located on Temples in India are built up on the banks of Ganga river. suggested that "Water Quality Index identified the most The great virtuest river of India is Ganga River. Almost all

parameters BOD, Nitrate, Total Coliform and Fecal Coliform" we get the highest Mallow c-p value with high R2 for Fecal Coliform After applied the Best Subset Regression Analysis 96.06% similarity between the showed a 98.96% similarity of parameter BOD with WQI and stations Ganga D/S, Mirzapur, Varanasi D/S (Malviya Bridge) and value for justying her above statement of observed study. different Stations showed a similarity of 99.99% between (Smita Jain).. The following dataset are the best supporting WQI Varanasi U/S (Assighat), U.P. Cluster Analysis for variables where the study was taken place, she further observed that "the water samples collected from river Ganga at its upper courses parameters Total Coliform and

Stations	WQI
GANGA AT GARHMUKTESHWAR, U.P	65.05185
GANGA AT KANNAUJ U/S (RAJGHAT), U	71.59335
GANGA AT KANNAUJ D/S,U.P	70.38797
GANGA AT BITHOOR (KANPUR), U.P.	79.01873
GANGA AT KANPUR U/S (RANIGHAT), U	52.36029
GANGA AT KANPUR D/S (JAJMAU PUMPING STATION), U.P 81.42684	81.42684
GANGA AT DALMAU (RAI BAREILLY), U	88.4441
GANGA AT KALA KANKAR, RAEBARELI	86.8147
GANGA AT ALLAHABAD (RASOOLABAD), U.P.	94.94404
GANGA AT KADAGHAT, ALLAHABAD	129.414
GANGA AT ALLAHABAD D/S (SANGAM), U.P.	93.85674
GANGA U/S, VINDHYACHAL, MIRZAPUR	91.51511
GANGA D/S, MIRZAPUR	96.65601
GANGA AT VARANASI U/S (ASSIGHAT), U.P	
GANGA AT VARANASI D/S (MALVIYA BRIDGE),	107.7238
GANGA AT TRIGHAT (GHAZIPUR), U.P	70.56398

Table:1courses of flowing. Water quality Index of Ganga River at its upper

Science and Technology Source:- Analysis of Different Water Quality Parameters of Ganga August 2020. DOI: https://doi.org/10.46243/jst.2020.v5.i4.pp268-275 River by Multivariate Tools. Smita Jain, July-August 2020; Journal of ISSN: 2456-5660 Volume 5, Issue 4, July-

Godavari River: -

"bad" water quality ,... on Godavari River in Maharashtra, 27 have "good toexcellent" standard deviation values, the results show that out of 30 locations different physico - chemical parameters for understanding water quality, 2 have "medium to good" water quality water quality of Godavari River and by calculating its mean and from 2007 parameters of 3 clusters in Godavari River. They have taken data three calculated the Chandrakant Singh, Rakesh Kumar. Through their study they have The following dataset is the result of research work done by researchers namely to 2011. The five years average estimated values of Mean and standard deviations for water quality Indrani Gupta, Awkash and Kumar,

of 3 clusters in Godavari River (2007-2011) Table- 2 Mean and standard deviations for water quality parameters

	Cluster 1		Cluster 2		Cluster 3	
	Mean	St dev.	Mean	St dev.	Mean	St dev.
pH	8.2	0.2	7.8	0.1	7.9	0.0
ро	6.4	0.2	5.7	0.6	6.3	0.0
ВОД	2.8	0.7	7.1	3.3	10.5	0.0
FC	33.8	26.7	12.8	7.9	1132	0.0
TC	135.6	102.7	153.4	105.9	1907	0.0
Am-N	00	0.0	10	10	1	
	i	i	1.0	1.0	0.1	0.0
Nitrate	1.1	0.3	1.5	1.58	1.1	0.0

Rakesh Kumar published on 3 March 2015. Techniques. Indrani Gupta, Awkash Godavari River Using Water Quality Index, Source:-Detection and Mapping of Water Quality Variation in the Kumar, Chandrakant Singh, Clustering and

Krishna River:-

unscientific uses of Krishna River water. deterioration of water health quality of Krishna River through the proper knowledge about water pollution are responsible individual waste and other human activities especially for bathing. River Krishna is in very poor condition. According was not suitable for human beings to their domestic uses even not Assessment of Water Quality of River Krishna at District Shamli, Kumar The following dataset as estimated by Neeraj Malik and Praveen findings they critically shown that the water quality of Krishna River, Shamli which in their research work for "Water pointed out that Quality Index domestic

sampling station Thana Bhawan Calculation of water quality index of Krishna River

∞		7			6	5	4	w	12	T	Z	. 9	
les	Solids	ded	Solids	dissolved	Total	DO	Alkalinity	BOD	Total Hardness	Hd	=	Parameters	
40		16			395	6.0	243	28	22.0		7 77		Ohserved
200		500	1		000	1	200				8.5		Standard
∑Wi=0.53	0.004		0 002			2		5		0.0033	0.1176		Wi
	16.0		3.2			79.0	89.58	121.5	560	73.33	14.66	Rating (Qi)	Quality
ΣwiQi=132 .7115	0.064		0.006			0.158	17.916	0.6075	112	0.24	1.72		WiQi

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River Krishna at District Shamli, U. P. Source:- Water Quality Index for Assessment of Water Quality of

and Research (IJSR), ISSN;-2319-7064; SJIF (2020):7.803 Neeraj Malik, Praveen Kumar* International journal of Science

Conclusion

lack especially Hindu believes and culture also is at risk waste with the natural fresh river water. So, the study further responsible for stopping to mix up liquid domestic and industrial north India is at risk. Lack of proper water treatment plant and also water quality Index (WQI) has suggested that mainly the river of degradation caused for water pollution of Indian River system. The urban centers of India caused for the detritions of water health river system. But due to over population especially over crowded Over the ages Hindu culture has been observed as part of Indian Hinduism believs and culture are highly associated with each other. From the above study this is no doubtly said that Indian river and of the that if the river of India is at risk then the civilization of the use of modern science and technology river system in India. This Environmental are main

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