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LIC Colony,
Pragati Nagar, Latur
Dist. Latur - 413531.
(Maharashtra), India.

Contact : 02382 - 241913
09423346913, 09637935252,
09503814000, 07276301000

Website

www.irasg.com

E-mail :
interlinkresearch@rediffmail.com
visiongroup1994@gmail.com
mbkamble2010@gmail.com
drkamblebg@rediffmail.com

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Assessment of fluoride concentrations Manjara dam water of Beed District, Maharashtra state

Vinod N. Kale
Dept. of chemistry,
Degloor College,
Degloor, Dist. Nanded

1

Research Paper - Chemistry

ABSTRACT

It is the most bone sucking element known to mankind. The US public health services has stated that fluoride makes the bones more brittle and the dental enamel more porous. The water from Manjara dam is used for irrigation, drinking and domestic purposes. Total five samples collected, one is from central area and other four from each side. The collected samples mixed in laboratory and then analyzed. The maximum fluoride concentration was found in the month of September.

Introduction:

Fluoride is cumulative and increases cellular uptake in brain. Fluoride is beneficial to human beings to a certain extent when present in concentration of 0.8 to 1.0 mg/l for calcinations of dental enamel, especially for children below 8 years of age. It is negatively charged ion that will attract and bound with calcium and magnesium. It is the most bone sucking element known to mankind. The US public health services has stated that fluoride makes the bones more brittle and the dental enamel more porous. Dental fluorosis is most common one, which is due to the presence of excess of fluoride. The teeth loss their shining appearance and choky white patches develop on them. These white patches later becomes yellow and some time turns brown or black. Excessive injection of fluoride also attacks kidney functions which has been confirmed by leading Indian nephrologists.

Materials and methods:

In reservoirs or dams often a single water sampling may not be sufficient to know the true raw water quality and several samples from the critical location may needed to asses the composition of water in amore authentic manner. Hence we collect the samples from different areas or sides of dam and mixed it in laboratory before analysis. The samples were analyzed as the process given in APHA-1992 and Guidance manual of NERRI. Among many methods SPANDS ion selective electrode method is the most satisfactorily and applicable to variety of samples. The water samples were collected freshly early in the morning on around 1st in each month from july -09 to Aug -10.

Results and discussion :

Data observed in the present investigation is tabulated in table No.1 and in Graph No.1. In the present investigation the fluoride concentration found more than one in only in the month of September at both sites. It was recorded 1.32 mg/L at Limboti and 1.15 mg/L at Manjara in the month of September. Bhalerao and Khan [2] noted 0.1 to 5.8 mg/L of fluorine in Kinwat Lake of Maharashtra. Nil Fluoride concentration has been reported by Somwanshi et al [10] in samples from murum Maharashtra, Delphine rose et al [4] records 0.6 to 2.4 mg/L of fluorine concentration in Tamilnadu. Ganesan and Sultana [5] observed a range of 0.67 to 0.83 mg/L of fluorine in chrompet lake Chennai, Tamilnadu. Dhakad et al [3] founds 0.98 mg/L of fluoride concentration in Mod Sagar reservoir Madhya Pradesh. H Manjunath [6] observes maximum 17 mg/L and minimum 0.45 mg/L of fluoride ion concentration in sub surface water sample of challakere Taluka, Karnataka. Kodarkar [7], Pendse and Shastri [9] found fluoride concentration within the permissible limit in Hydrabad water sample and village Dasne water sample of Maharashtra respectively. R. Eswaralakshmi et. al. [11] observed 0.38mg/L of fluorides in Guru Nanak Collage campus water sample Tamil Nadu. Sayyeda Azeem Unnissa et al [12] reveal that the concentration of fluoride has been high in all ground water samples of Gaduchiroli distict of Maharashtra. T. Ramchandramoorthy et.al. [13] found 0.55,0.59,0.82 and 0.26 ppm as average fluoride ion concentration in 100 water sample collected from the Eastern,western, northen and southern sides of the Rock fort area of Tiruchirapali. Also they examined 2779 students; they got 179 victims of dental fluorosis.



Table 18: Month wise variations in Fluoride ion: during Aug-09 to July-10

Sr. No.	Month	Manjara Dam
01	August - 09	0.72
02	September - 09	1.15
03	October - 09	0.07
04	November - 09	0.09
05	December - 09	0.34
06	January - 10	0.46
07	February - 10	0.35
08	March - 10	0.123
09	April - 10	0.171
10	May - 10	0.389
11	June - 10	0.13
12	July - 10	0.08

■ Manjara Dam

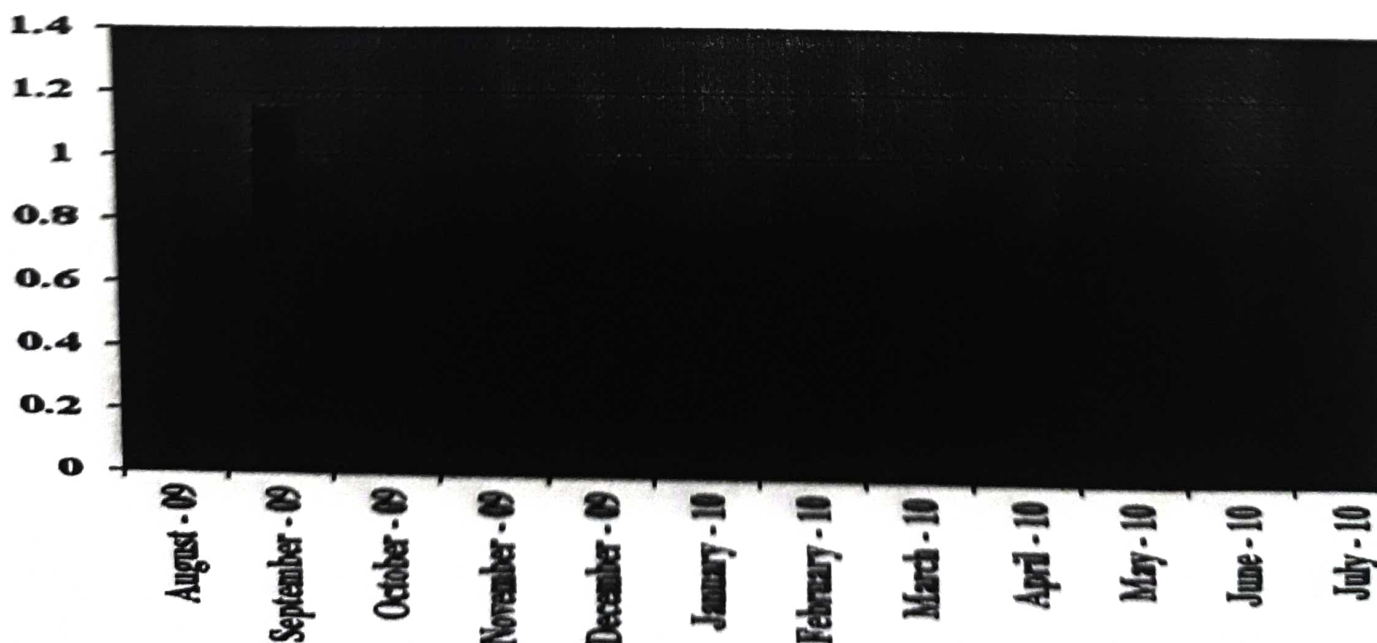


Fig.18-Month wise variation in Fluorides



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- 11) R. Eswaralaxmi, J. Jayanthi and M.G Raghunathan : physico chemical factors of the water of vattambakkam Lake in kanchipuram Distict, Tamil Nadu India : *Advances in aquatic Ecology.*
- 12) Sayeda Azeem Unnisa (2009): Fluride and its impact on human health; *J. of Ecology and fisheries*; 2 (2): 1 – 8.
- 13) T. Ramachandramoorthy, D.A. Jeyakar Chelaraja , R. Edison raja , T. Venkatachalam, R. Sangeeta and C.Sivraja (2003)- fluoride Estimation in potable water in tiruchirapalli Rock Fort Area –Dental Fluorosis Survey and Defluoridation with Embalicaphylanthus- *I.J.E.P.* 23 (3) :317-320.



References :-

- 1) APHA (1998) - "Standard methods of examination of water and waste water treatment" 20th Edn. N.W. Washington D.C.
- 2) Bhalerao A.P. and Khan A.M. (2000) Fluorine and sulphur content in the lake in the tribal area of Marathwada Maharashtra *J. Aqua. Biol.* Vol. 163 (1 and 2): 1 - 4.
- 3) Dhakad N.K., Deepak Shinde and Preeti Choudhry. (2010) - Determination of water quality index (WQI) of mod sagar Reservoir of Jhabua District, Madhya Pradesh. *J. Aqua. Biol.* 25 (1): 61 to 65.
- 4) Delphine Rose M.R., A. Jeyaseely, A. Joice Marry and J.A. Rani (2008): characteristics of ground water quality of selected areas of Dindigul district, Tamil Nadu, *J. of Aqua Biol.* 23 (1): 40 - 43.
- 5) Ganesan S and Mahlr Sitrana (2009): A base line study of physico-Chemical parameters and some trace metals in water of Chrompet Lake. *J. of Aqua. Biol.* 29 (2).PP-131-141
- 6) H. manjunatha, H. B. Arvinda and ET Puttaih (2011) - Subsurface water quality of Challakera Taluk karnatka- *I.J.E.P.* Vol. 31 (6) : 511-514
- 7) Kodarkar M.S. (2006)-"Methodology for water analysis" *LAAB pub.* No. 2, 3rd Edn. Hydrabad.
- 8) NEERI (2007): Guidance Manual for Drinking water Quality Monitoring and assessment (first Ed.) Pub. By: National Environmental, Engineering Research Institute, Nehru Marg, Nagpur - 440020.
- 9) Pendse D.C. Yogesh Sharhari and V.P. Barhate (2000): Hydrobiological Study of percolation Tank of village Danse, *J. of Ecol. Env and cons.* 6 (1): 93-97.
- 10) Somwanshi Jaishree, L.S.K. Akuskar, Sayed Abed, Mazar Farooqui, Patil Arvind. (2007): Physico - chemical charecterisation or Vithal co-oprative sugar factory. Murum and its impact on near by ground water resources in Murum, Tq. Omarga. dist. Osmanabad (M.S.) *J. of Aqua. Biol.* 22(1): 112 - 114.