

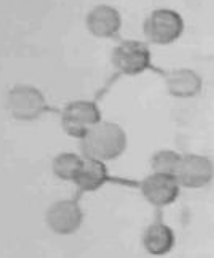
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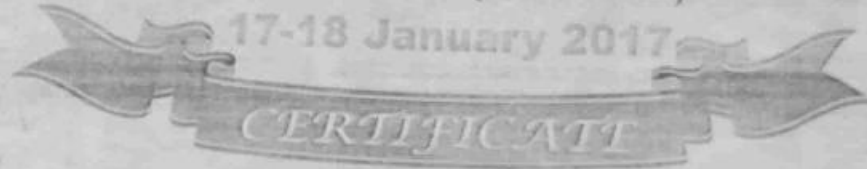
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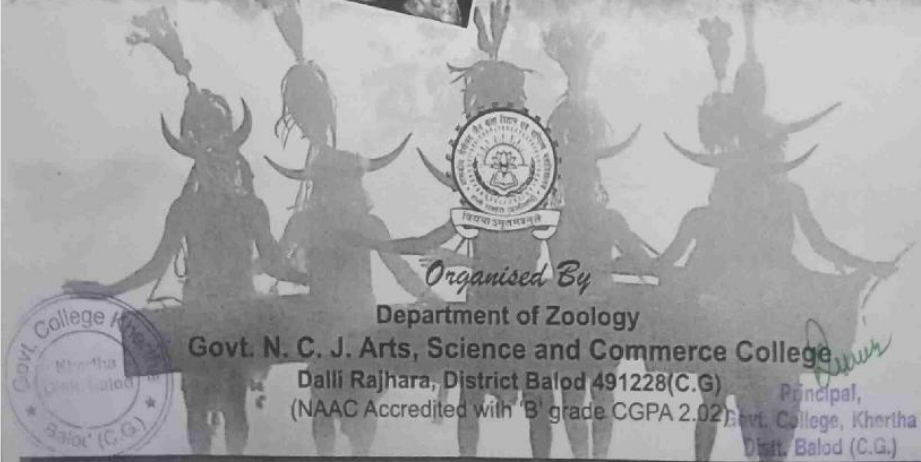


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National Conference on
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- New Vistas"

20th - 21st January 2017



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Report of Some Medicinal Plants used in Folk Medicine in Tribal Areas of Vidisha, M.P.

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Indu Soni

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Abstract

110 locally available plants used in folk medicine by the natives of district vidisha, M.P. have been listed below. The local Neem and botanical names and medicinal uses of each plant are given wherever available. The different plants as well as method of use and their distribution in Indian sub-continent are reported.

Key words- tribal areas, folk medicine, trial, results, ethnomedico.

Health risk due to Heavy metals to the population feeds on fish "Oreochromis mossambicus" of Budha sagar pond of tribal dominated Rajnandgaon district

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Abstract

Rajnandgaon is a tribal dominated district. 26% population of district comprises of Scheduled tribes. Heavy metals are health concern mainly for the food products obtain from aquatic origin. Fishes live directly and constantly in water containing contaminants.

Consumption of fish contaminated with the heavy metals is the most likely route for human exposure in sewage fed ponds used for fishery purpose. In this study presence of Pb, Cd, Hg, Fe and Cr is examined in fish tissues. Health risks associated with these heavy metals are assessed based on the target hazard quotient (THQ), which is derived from concentrations of heavy metals in fish consumed from this pond. Individual metal THQ (<1) values indicate the relative absence of health risks associated with intake of a single heavy metal through consumption of contaminated fish.

Risk contribution from Pb is minimum compared to the other elements. Fe is the major risk contributor. The order of THQ is Fe>Cr>Cd>Hg>Pb. It is observed same in Adults and Children. Maximum THQ found 0.3 and 0.8 in adults and children respectively.

MPI (Metal pollution index) shows cumulative effect of all the heavy metals investigated. It is maximum in Liver in summer season and minimum in the same tissue in winter season. Order of MPI in different tissues is Gill>Liver>Muscle.

Keywords: Heavy metals, Health risks, Target hazard quotients (THQ), MPI (Metal pollution index)
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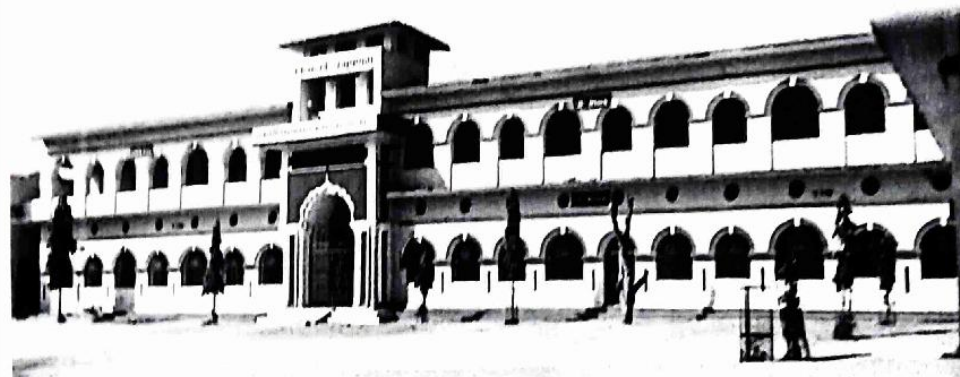



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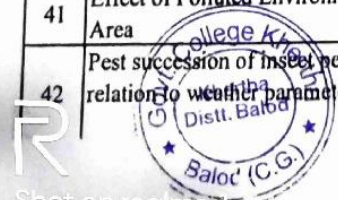


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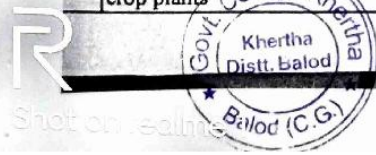
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**UPTAKE OF HEAVY METALS BY *OREOCHROMIS
MOSSAMBICUS* FROM SEWAGE FED BUDHA SAGAR
POND OF RAJNANDGAON (C.G.)**

Yaser Qureshi¹ and Kanti Choubey²


¹Asst. Professor, Deptt. of Zoology,
Govt. College Khertha, Distt. Balod, C.G.

²Professor & Head, Deptt. Of Zoology,
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Heavy metals have a tendency to accumulate in living system. Investigations on the bioaccumulation of heavy metals (Fe, Pb, Cr, Cd and Hg) are observed in Muscle, Gills and Liver of fish "*Oreochromis mossambicus*". The results revealed that heavy metals tend to accumulate in different tissues of fish. The accumulation is observed in tissues such as gills, liver and muscle. All the tissues investigated shows accumulation of Fe and Cr. Only one sample of gills from all tissues investigated shows presence of Hg. Their pattern of accumulation in investigated tissues was Fe > Cr > Hg > Cd. Pb did not found in any sample. Fe shows maximum tendency of accumulation. Fe accumulation is found in order of Liver > Gill > Muscle. Cr is second most abundant metal. It shows maximum tendency to accumulate in muscle than gills and after that in liver. Although Fe is found in higher concentration but other metals are found in limit prescribed by FSSAI/ FAO/ WHO.

Key words: Heavy Metals, Bioaccumulation




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॥ राष्ट्रीय संगोष्ठी ॥

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He/She has presented a paper/invited Talk entitled Effect of certain heavy metals
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Govt. Dr. B. S. B. A. P.G. College Dongargaon (C.G.) held on 13th February 2020.


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