

**INTERNATIONAL JOURNAL FOR INNOVATIVE RESEARCH IN
MULTIDISCIPLINARY FIELD**

(ISSN: 2455-0620) (Scientific Journal Impact Factor: 6.719)
Monthly Peer-Reviewed, Refereed, Indexed Research Journal
Index Copernicus International - IC Value: 86.87

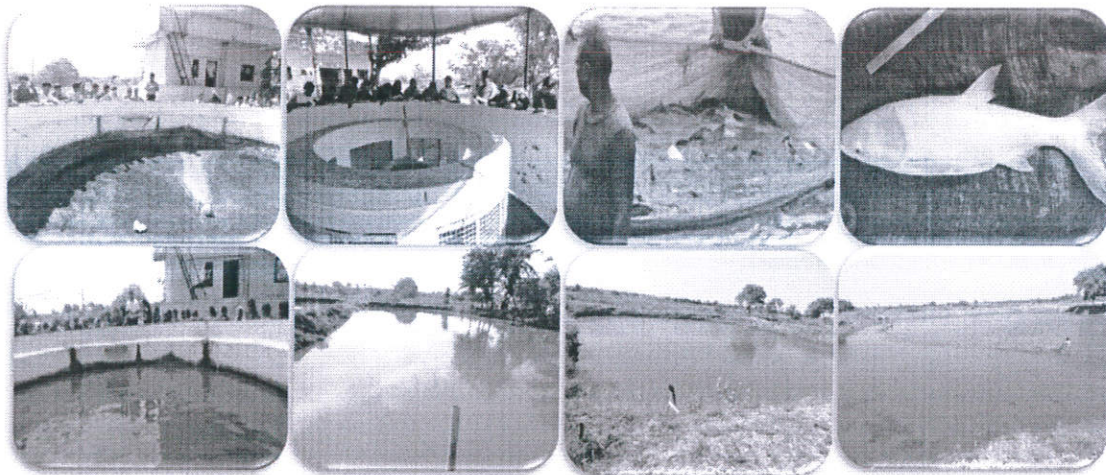
Special Issue of
**International Web Conference on Recent Advances
in Freshwater Aquaculture (RAFA-2021)**

Organized by
Department of Zoology M.S.P. Mandal's - Sunderrao Solanke
Mahavidyalaya, Majalgaon, Dist. Beed (M.S.) India

In Joint Collaboration with
Nepal Aquaculture Society, Kathmandu, Nepal (NEAQUAS)
Asian Biological Research Foundation (ABRF), Prayagraj, (U.P.), India
Global Environment & Social Association (GESA), New Delhi

21 - 22 January, 2021

Conference Special Issue



Conference Special Issue – 22

January - 2021

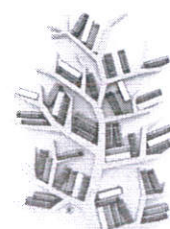


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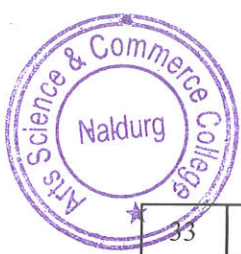
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33	Legal Framework for Conservation of Forests in India - Dharmapurikar M. L.	137-140
34	Lipid Contents in the Freshwater Bivalve, <i>Lamellidens Corrianus</i> from Different Habitats - Gulbhile Shamsundar D., Maske Ranjit B. and Chavan Laxman N.	141-144
35	Modern Techniques in Aquaculture: Probiotics in Aquaculture - Deshmukh Jayshree Uttamrao	145-147
36	Morphometric Analysis of Watershed Area of Kalamkonda Reservoir, Hingoli District using Geographic Information System (GIS) - Markad Sandip, Patil Dhanaji and Gaikwad Jayprakash	148-153
37	Nanotechnology and Fishery: A Comprehensive Research Review - Dabhade Varsha Fakira	154-165
38	Occurrence of Tricladid and cladocerans from Lentic Water Bodies of Pune District, Maharashtra (India) - Kshirsagar Ravindra V.	166-169
39	On A New Species of Genus <i>Tetragonocephalum</i> (Shiple & Hornell, 1905) (Cestoda: Lecanicephalidea) From <i>Dasyatis Walga</i> from Dist. Raigad (M.S) India - Dongare Vasant and Ghoble Sachin	170-172
40	Physico-Chemical Analysis of Gulbheli River and Nalganga Reservoir, Nalgangapur, Dist. Buldana, Maharashtra State, India - Morey Chitra D.	173-182
41	Physicochemical Analysis of Thane Creek Water - Pekhale Sanjay T. and Varpe Vikas S.	183-188
42	Physico-Chemical Status of Water in Bhima River Near Solapur Dist. Solapur (M.S.) - Bhalkare Shashikala Laxman	189-191
43	Population and Behaviour of Waterfowl in Different Freshwater Body of Western Maharashtra - Abdar M. R.	192-195
44	Preliminary Survey of Birds in Terna Reservoir of Osmanabad in Maharashtra - Patil Satish and Jadhav H. K.	196-198
45	Recent Techniques Used in Fish Seed Production in Marathwada Region (MH) India - Rathod Sandeep R.	199-204
46	Record of Monogenetic Trematode: Parasites of Catfishes from Yeldari Reservoir, Parbhani District - Ishrat Parveen Mohd. Bari and Gaikwad J. M.	205-209
47	Seasonal Changes in Levels of Zinc and Mercury in Tissues of <i>Lamellidens marginalis</i> Collected from Sukhana Dam - Dahiwalé Bhausaheb J., Gulbhile Shamsundar D., Patil Satish S.	210-219
48	Seasonal Chlorophycean Diversity in Vijasan Lake of Bhadrawati, District Chandrapur (M.S.), India - Luharia N. M., Harney N. V. and Dhamani A. A.	220-222
49	Seasonal Infection of Tapeworms in Some Freshwater Fishes - Kale Sanjay S.	223-225
50	Seasonal Variation in Water Quality Parameters of Bendsura Reservoir Maharashtra - Sirsat P. B.	226-228
51	Status of Fishes in the Majalgaon dam Reservoir on SindphanaRiver, Godavari Basin in Maharashtra State, India - Ingole Sitaram B.	229-232
52	Studies on Composition of Zooplankton in Bindusara River Water at Beed, Dist Beed, Maharashtra, India - Jaysingpure V. M.	233-236
53	Studies on Fish Diversity of Khandala and Bori Reservoirs in Osmanabad District, Maharashtra. - Jadhav H. K.	237-238



Studies on Fish Diversity of Khandala and Bori Reservoirs in Osmanabad District, Maharashtra

Jadhav H. K.

Department of Zoology (P.G.) Arts, Science and Commerce College, Naldurg

Dist. Osmanabad. (M.S.) 413602.

Email: hansrajadhav11@gmail.com.

Abstract: The present paper deals with the study of fish diversity of Khandala and Bori reservoirs in Osmanabad District, Maharashtra. The work was carried out during the year 2019 (January to December) the water of these two reservoirs is mainly used for Drinking, Agriculture, Fish-culture and Domestic use. The result of Khandala and Bori Reservoirs of the Osmanabad District revealed the occurrence of 24 species belonging to 5 orders and 11 families. The order cypriniformes was dominant followed by order siluriformes order perciformes order osteoglossiformes and synbranchiformes.

Key-words: Fish biodiversity – Economic Khandala and Bori Reservoirs Osmanabad District.

Introduction:

Fish biodiversity and its conservation is the most important issue for sustainable development of fisheries sector. The conservation action of fish diversity has been failed due to special features of habitats and their biodiversity. Overexploitation, stream embankment, Degradation of freshwater habitats water pollution is the most important factors which affect the fish biodiversity. The fish diversity is an important aspect of fishery potential of a water body. Fish fauna of Indian freshwater has been studied by several workers like Sugran and Yadav (1992), Valsangkar (1993), Piska et.al. (2000), Deshmukh (2001), Singh (2001) Sakhare (1999-2001, 2007) and it has been found that the distribution of fish species is quite variable because of geographical and geological factors of the area.

The present investigation is carried-out on fish diversity in Khandala and Bori Reservoirs Osmanabad District.

Materials and Methods:

Fishes were collected with the help of local fishermen and immediately photographs were taken with the help of digital camera. Fishes were brought to laboratory and preserved in formalin (10%) solution in specimen jars according to the size of species. Identification of specimens was done with the help of standard literature given by Talwar and Jhingran (1991), Day, F (1967).

Result and Discussions:

In the present investigation fish diversity of 23 species of 18 different genera, 8 families and 6 orders were recorded from the reservoirs. The members of order cypriniformes were dominated by 9 species followed by siluriformes 5 species, channiforms 3 species and imastacembeliformes, osteoglossiformes and perciformes with 2 species each. The details of the fish diversity of Khandala and Bori Reservoirs Osmanabad District are given in the Table No. 1

Table No. 1 The Fish Diversity of Khandala and Bori Reservoirs Osmanabad District.

Sr. No	Order	Family	Name	Economic value	Khandala	Bori
1.	Cypriniformes	Cyprinidae	1.Catla-catla	F.D.	++	++
			2.Labeo-rohita	F.D.	+++	++
			3.Cirrihinus mrigala	F.D.	++	++
			4.Hypothalmichthys molitrix	F.D.	++	++
			5.Ctenophertngolon idella	F.D.	++	+
			6.Puntius sarana	BT,LV,WF	++	++
			7.Chela bacaila	F.D.	++	+
			8.Rasbora damiconius	F.D.	+	++
			9.Labeo calbasu	F.D.	+	+

2.	Siluriformes	a. Bagridae	1. Mystuscavasius	P.F.	-	-
		b. Siluridae	1. M. Tengra	P.F.	+	+
		c. claridae	1. M. Seenghala	P.F.	+	+
			2. Wallagoattu	P.F.	+++	+++
			3. Clariusbatrachus	P.F.	+++	++
3	Channiformes	Channidae	1. Channa striatus	L.V, P.F.	+	+
			2. Channa punctatus	L.V, P.F.	++	++
			3. Channa gachua	L.V, P.F.	+	+
4.	Mastacembeliformes	Mastacembilidae	1. Mastacembelus armatus	P.F.	+	+
			2. Mastacembelus pancalus	P.F.	+	+
5	Osteoglossiformes	Notopteridae	1. Notopterus Notopterus	P.F, M.D.	+	+
			2. N. Chitata	M.D.	-	-
6.	Perciformes	Uglilidae	1. Mugil cephalus	L.V.	-	-
			2. Oreochromis mossambicus	F.D.	++	+

Abbreviation: +++ Dominant, ++ Abundant, + Moderate, - Rare.

L.V. Larvivorous fish, BT: Bait, P.F. – Predatory fish: W.F. – Weed fish.


M.D. – Medical value, F.D. – Food fish.

Acknowledgement:

The Authors are thankful to the Principal, A.S.C. College, Naldurg, Dist. Osmanabad for providing Necessary Library and laboratory facilities.

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