

Shree Warana Vibhag Shikshan Mandal's



YASHWANTRAO CHAVAN WARANA MAHAVIDYALAYA,

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Organizes

INTERNATIONAL CONFERENCE

On

**'ENERGY, ENVIRONMENT AND
ETHICS IN RESEARCH'**

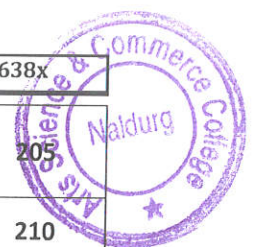
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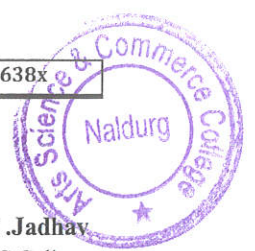
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**Biodiversity of Aquatic Animals Alni Dam at. Alnigaon, Distric.
Osmanabad Maharashtra India**



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Abstract

This Dam Located On 18.2816o North and 76.0102o East Tahsil and District. Osmanabad (M.S.) India Constructed in 1972. It is a natural Dam and with a large source of Aquatic Animals including, certain protozoans Molluscans Arthropods other animals and aquatic plant, which are commercially important to man and environment. This dam is also for drinking and irrigation water for nearly about irrigation and domestic etc. The present investigation was carried out to study biodiversity of certain aquatic animals with reference to Arthropods, Protozoans, Molluscans from Alni Dam water body during the period from Oct 2017 to Nov 2018, One year. The Result were confirmed the occurrence of the species and one Genus belongs to one order of protozoa, 3 species and 3 genus belongs to 3 Order of Molluscan, 7 species and 6 genus belonging to 4 order of Arthropods. The Result shows with rich biodiversity of aquatic Animals.

Keywords: - Biodiversity of aquatic Animals Fishes, Arthropods, Protozoans, and Molluscans in Alni Dam.

Introduction

The Dam was constructed by 1972 for impounding effective utilization of water for irrigation, power generation and food control. India is having very rich sources of inland water bodies in the large number of living aquatic animals, which are economically important for nature as well as human being for their using as a food these are provided an excellent food with high protein, fats, carbohydrates and vitamins and certain minerals which are inhabit of river, lakes and dam their distribution is directly related to availability of food and quantity sediment type there are certain organism or macrobenthon and play important role in the mineralization and recycling of organic matter and as a link in the energy flow from primary production to fish and other aquatic animals. The considerable studies on Biodiversity and diversity of aquatic animals from different water bodies of India, have been carried out during the last few decades, Krishnamurthy 1966 Anitha et al. (2004), made the (1981), Gupta (1976), The more important work on this aspect is those of Srivastava (1959), Michal (1964).

Materials And Methods

The aquatic animals were collected from the Alni dam with the help of local fisherman by using different types of net and also with help of hand, after noting down colour and other morphological features. These animals were cleaned with clean warm water to remove stem of micro-organism and blood stain. The animals were preserved 5% formal solution for further study and systematic identification of animals was done with the help of standard literature. The various aquatic animals and identification of arthropods and Protozoans was done by using standard tests and keys Edmondson 1959. The molluscan were identified with the help of key given by earlier research works Batt (1959). The various aquatic animals and fishes were identified with the help of following key of Ward and Whipple (1959), Hamilton (1878), Jayaram (1981), Talwar and Jhingran (1988), Khanna (1992).

Result And Discussion:-

The distribution of aquatic animals are quite variable because of geographical and geological of water body. The aquatic ecosystem is an important and having large number of aquatic animals which are ecologically important including Protozoans, Molluscan's crustaceans, insects and fish. The present result has confirmed the occurrence of protozoans with 1 species belong to 1 order and 1 genus. Molluscan with 3 species belongs to 3 order and 3 genus. Arthropods with 7 species belonging to 4 order and 6 genus during the Oct 2017 to Nov 2018 check list 1, 2, and 3 the result show with rich biodiversity of aquatic animals including prawns, crabs other crustaceans, insect, gastropods, Bivalvia.

1. Clesk List Of Arthropods From Alni Dam During Period Oct 2017 To Nov 2018.

Phylum – Arthropods

Sub- Phylum - *mandibulata*Class -*crustacean*.Sub- class- *malacostraea*.Order –*mysidacea*.Genus – *mysis*.Order- *Decopoda*Genus –*malcolmsoni, rosenbergii*Species – *palaemon*Genus *Barytelphusa*.Species – *guerini, cunicularis*.

Order – Nebaliacia .

Genus – *nebalia* .Class – *insect- hexupoda*Sub – class -*pterygata*.Order - *hemiptera*

2. Clesk List Of Protozoon's From Alni Dam During Period Oct 2017 To Nov 2018.

Phylum – Protozoon's

Sub – phylum – *ciliophora*.Supper class – *ciliate*.Class – *ciliata*Sub- class – *hymenostomids*.Species – *caudatum*

3. Clesk List Of Mulluscan's From Alni Dam During Period Oct 2017 To Nov 2018.

Phylum – Mulluscan's

Class – *gastropod*Sub – class – *prosobranchiate*.Order – *phenctinibranchita*.Genus – *pila*.Species – *globosa*.

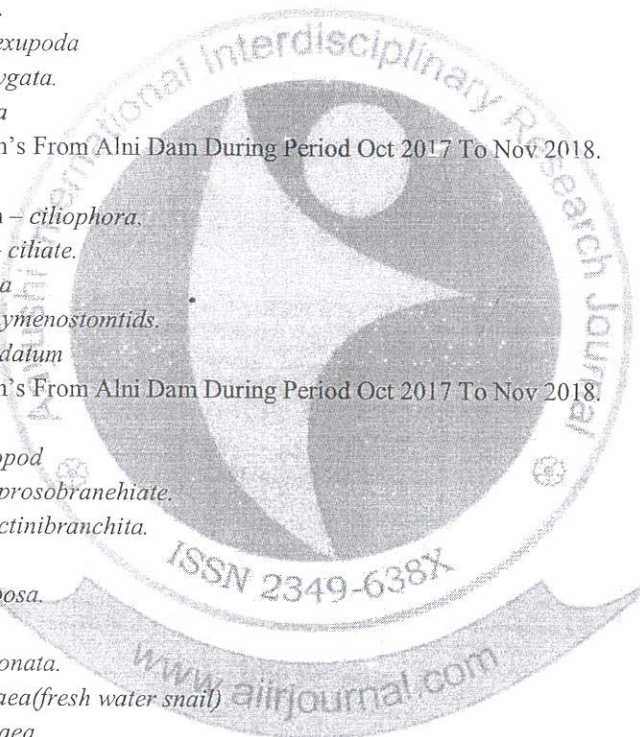
Sub – class – Euthyneura.

Order – *pulmonata*.Genus – *lymnaea* (fresh water snail)Species- *limnaea*.

Class- pelecypoda

Order – *Eulamellibranchiata*.Genus – *lamellidens*.Species – *marginalis*.Genus- *Nepa* or water scorpion.Genus – *ranatra* or water (stick insect)

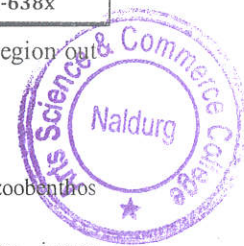
The study and sarvey of aquatic fauna of an aquatic water body os useful for planning of fish. these species of aquatic animal were shows variations during different seasons of the year. The Large number of protozoan's crustaceans and insect including palaemon species ,shrimps,mysis carb barytphesa species was recorded ,during mansoon rain season and also constant recorded year but not in November month while molluscans and fishes was recorded throughout the but maximum after monsoon season .the mollusan species like sanils, pila ,globosa species was recorded largely during monsoon month and few in winter and summer month while freshwater mussels or lamellidens marginalis or unio was recovered maximum winter and summer month and less in monsoon months satyamurti (1998)were recoredmolluscan diversity reveled the occurrence of 450 species of gastropods and 156 species Bivalvia .Devraj (1998)were recored 100 species of



gastropods .sharma et.al. 2010 were reported a total 16 species of mollusacs from omkareshwar region out of which of belonged to pelecypoda and 7 to gastropod from narnada River ,madhy Pradesh.

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