

Some Species of *Achlya* from Lower Lake of Bhopal(Madhya Pradesh) India

Bindu Nahar*and K.W. Shah

Principal and Professor of Govt P.G. College, Pipariya(M.P) India

* Research Scholar and Asst Professor of Gandhi.P.R.College,Bhopal(M.P)India

Department of Botany

ABSTRACT- By Using Baiting technique four species of *Achlya viz. A hypogyna, A racemosa, A oblongata* and *A megasperma*, belonging to order Saprolegniales and family saprolegniaceae were isolated from water of Lower Lake of Bhopal, Madhya Pradesh, India. In 4 Species one speices i.e *A racemosa* first time reported from water of Lower Lake (Bhopal)Madhya Pradesh,India.

KEY WORDS- *Achlya*, Aquatic fungi, Saprlegniaceae, Bhopal.

INTRODUCTION- Lower Lake is a beautiful artificial(man made) Lake.It is situated in Bhopal, the capital of Madhya Pradesh also known as **City of Lakes**. It is located between the North Latitude 23^o12'0" and East latitude 77^o18'0".At Bhopal, Dubey(1982) carried out the ecological study of aquatic fungi and Singh(2008) studied on the Biodiversity of aquatic fungi of Lower Lake of Bhopal(M.P.). During the study period i.e.(Jan 2017- Dec 2018) many species belonging to order saprolegniales were isolated from the water of Lower Lake. Present paper deals with 4 speices of *Achlya viz A hypogyna, A racemosa, A oblongata* and *A megasperma* belonging to order saprolegniales and family sporolegnice . In 4 Species one speices *A racemosa* first time reported from water of Lower Lake.

This species was isolated by Misra(1982), Rai and Misra(1976), Gupta and Mehrotra(1988a, 1989 a and b), chowdhry and Aggarwal (1980b), Dube(1982), Hasija and Khan(1983), and khare(1992).

MATERIAL AND METODS

During the study period of Jan 2017-Dec 2018 water samples were collected from four different stations in different conditions of Lower Lake, Isolation of fungi was carried out by bating technique in the laboratory ,Identification and characterization of fungi were made with the help of ' A manual of Aquatic fungi by R.D. Khulbe(2001).

ENUMERATION OF SPECIES

The species of *Achlya* ecountered in the present investigation are enumerated here under.

Achlya Americana Humphrey,

Trans. Amer. Phil.Soc. 17:116, 1892(1893)

Principal hyphae stout, branched thick at base,tapering ;Zoosporania abundant, long, straight or fusiform, zoospores discharge achlyoid; encysted primary zoospores, gemmae few, elongated, terminal or intercalry; Oogonia abundant, oogonial stalk small; antheridial branches androgynous and monoclinoous ;Oospores spherical(khulbe, 1985).

- ***A. hypogyna***

Hyphae diameter at apex is 46.55 µm; sporangia length 212.8 µm and width is 79.8 µm; Oogonia diameter 66 µm ;Oospore 8 in number ;diameter of Oospore is 9.8 µm ;antheridia hypogynous, diclinous.

- ***A. racemosa***

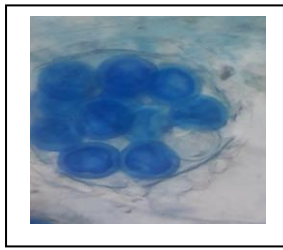
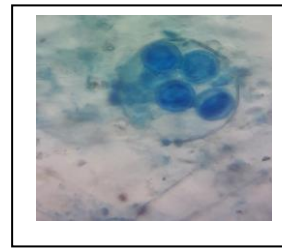
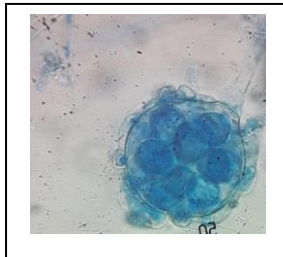
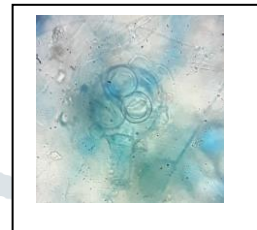
Mycelial growth moderate, hyphae thick ;Sporangia cylindrical 226.1 µm diameter ; Oogonia borne in racemose manner, 46.2 µm diameter ; Antheridia monoclinoous and diclinous; Oospore 5 in number, 19.8 µm diamater, centric.

- ***A. oblongata***

Mycelium moderate, stout and branched ; sporangia fusiform 279.3 µm length and 46.55 µm width; Oogonia abundant oblong 56.1 µm , wall smooth, thin; antherida diclinous; Oospore 11 in number subcentric and 19.8 µm in diameter.

- ***A. megasperma***

Hyphae 39.9 µm in diameter; zoosporangia abundant fusiform 99.75 x 66.5 um;Oogonia 56.1 µm in diameter; Antheridia dicilinoous; Oospore subcentric,spherical 3 in number, 39.6 um diameter.

*Achlya oblangata**Achlya recemosa**Achlya hypogyna**Achlya megasperma*

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