

ABSTRACT

Tehsil Ahmadpur East District Bahawalpur was explored for freshwater algae and 22 Samples from different localities (Table 1) were collected during September 2015 to April 2016. Total Sixty-one species of algae belonging to three kingdoms; Monera, Protista and Protoctista were documented.

Kingdom Monera was found to be most abundant included one Phylum Cyanophycota containing 2 classes, 2 orders, 4 families, 8 genera and 25 species i.e. *Chroococcus minutus*, *C. dispersus* var. *minor*, *Gloecapsa atrata*, *G. granosa*, *Nostoc ellipso sporum*, *N. commune*, *Oscillatoria tenuis*, *O. subbrevis*, *O. acutissima*, *O. agardhii*, *O. amoena*, *O. anguina*, *O. angustissima*, *O. formosa*, *O. minima*, *O. martini*, *O. curviceps*, *Spirulina gigantean*, *S. laxissima*, *S. major*, *Arthrosapirsa massartii*, *A. platensis*, *Lyngbya lachneri*, *L. versicolor* and *Calothrix stagnalis*.

Kingdom Protista having 3 Phyla; Volvocophycota, Euglenophycota and Bacillariophycota including 4 classes, 4 orders, 7 families, 8 genus and 22 species i.e. *Hydrodictyon reticulatum*, *Cosmarium subcostatum*, *C. leave*, *C. contractum*, *C. granatum*, *Euglena elongate*, *E. limnophila*, *Synedra tabulate* var. *fasciculate*, *S. ulna* var. *amphirhynchus*, *Gomphonema constrictum*, *G. lanceolatum*, *G. olivaceum* var. *obtusum* var. *novo*, *G. ghosea*, *Navicula salinarum*, *N. viridula*, *N. peregrine*, *N. cryptocephala*, *N. exigua*, *N. radiosa*, *Gyrosigma scalproides*, *Nitzschia vermicularis* and *N. linearis*.

Kingdom Protoctista included only one Phylum Chlorophycota having 2 classes, 4 orders, 4 families, 4 genus and 14 species i.e. *Ulothrix tenerrima*, *U. tenuissima*, *U. aequalis*, *U. subconstricta*, *Microspora vulgaris*, *Oedogonium bohemicum*, *O. gracilius*, *O. capilliforme* var. *austral*, *Spirogyra nitida*, *S. crassa*, *S. rhizobrachialis*, *S. aequinoctialis*, *S. scrobiculata* and *S. pratensis*.