

Abstract

Nandipur canal area District, Gujranwala was selected for the study of freshwater algae. Collection was done during September 2015 and April 2016 and a total of 15 samples were collected from Nandipur canal and adjoining areas. Fifty species of algae from three kingdoms; Monera, Protista and Protoctista were found.

Kingdom Protoctista was found to be the most abundant having one phylum chlorophycota, 3 classes, 5 orders, 5 families, 11 genus and 38 species i.e. *C. glomerata* (L.) Kützing, *Cladophora crispata* (Roth) Kützing, *Chaetomorpha implexa* (Dell) Kützing, *Chaetomorpha linum* (Roth) Kuetzing, *Chaetomorpha litorea* (Harv.), *Rhizoclonium fontanum* Kuetzing, *Rhizoclonium heiroglyphicum* (C.A.Ag.) Kuetzing, *Rhizoclonium crassipellitum* West and West, *Basycladia chelonum* (Collins) Hoffman and Tilden, *Pithophora kewensis* Wittrock, *Pithophora varia* Wille, *Pithophora oedogonia* (Mont.) Wittrock, *Ulothrix tenuissima* Kützing, *Ulothrix tenerrima* Kützing, *Ulothrix variabilis* Kützing, *Ulothrix subconstricta* G.S.West, *Ulothrix subflaccida* Wille, *Ulothrix cylindricum* Prescott, *Microspora pachyderma* (Wille) Lagerheim, *Microspora floccosa* (Vauch.) Thuret, *Microspora stagnorum* (Kuetz.) Lagerheim, *Microspora crassior* (Hansg.) Hazen, *Microspora loefgrenii* (Nordst.) Lagerheim, *Oedogonium capillare* (L.) Kuetzing, *Spirogyra scrobiculata* (Stock) Czurda, *Spirogyra fuellebornei* Schmidle, *Spirogyra porticalis* (Muell.) Cleve, *Spirogyra ellipsospora* Transeau, *Spirogyra gratiana* Transeau, *Spirogyra crassa* Kuetzing, *Spirogyra weberi* Kuetzing, *Spirogyra acquinocialis* G.S.West, *Spirogyra subsalsa* Kuetzing, *Spirogyra dubia* Kuetzing, *Spirogyra rhizobrachialis* Jao, *Spirogyra fluviatilis* Hilse, *Zygnema anomalum* (Ralfs.), and *Zygogonium ericetorum* Kützing.

Kingdom Monera contained only one phylum, 1 class, 1 order, 1 family, 3 genus and 6 species i.e. *Arthospira jennerii stizenb ex.* Gomont, *Oscillatoria bornetii* *Oscillatoria curviceps*, *Oscillatoria anguina* (Bory) Gomont, *Oscillatoria minima* Gicklhorn and *Spirulina gigantia* Schmidle.

Kingdom Protista contained one phylum, 1 class, 1 order, 2 families, 3 genus and 6 species i.e. *Synedra tabulata* var. *fasciculata* (C.Agardh) Hustedt, *Synedra ulna* (Nitzsch) Ehrenberg, *Gomphonema sphaerophorum* Ehrenberg, *Gomphonema constrictum* var. *capitatum*