ABSTRACT

Two hundred and sixty nine species of algae belonging to six phyla, two classes, fifteen orders, thirty three families and seventy five genera have been collected from various freshwater habitats of Pakistan from Gujranwala, Gujrat, Narowal and Sialkot in the province of Punjab, during March 2013 to August 2015. All species have been morphologically and cytologically investigated. All were taxonomically identified and described on the basis of their characteristics according to the recently proposed classification (Shameel, 2001, 2012).

From the taxonomic studies of algae from North-east Punjab, Phylum Cyanophycota between with twenty eight genera and 120 species in two orders that were found to be more revalent in algal diversity (45.60%) than the phylum Bacillariophyota, which included eighteen tenera and forty species in two orders and thus was smaller phylum (14.87%) in algal diversities and Cyanophycota diversity. The result of that Nostocophyceae (31.59%) observed most highly distributed class with single order Nostocales and 6 families with 19 genera and 85 species as compare to the other Cyanophyota class chroocophyceae (13.02%) with 09 genera and 35 species (Table 1).

Phylum Volvocophycota revealed with thirteen genera and forty three species in three aders with 15.85% than the phylum Euglenophycota, which included four genera and twenty are species in one order with 8.55% taxonomic distribution in north-east, Punjab, Pakistan. Thereas Phylum Chlorophycota revealed with eleven genera and twenty six species in six orders that 13.38% than the Phylum Vaucheriophycota that included 2 genera and seven species in two ders (Table 2).

ylum Volvocophycota shown 15.98% of algal distribution. It was followed by phylum cillariophycota (14.87%), Phylum Chlorophycota (13.38%), Phylum Euglenophycota (8.55%) Phylum Vaucheriophycota (2.60%) respectively.