

## ABSTRACT

We explored district Dera Ghazi Khan for freshwater phytoplankton and collected 20 samples from different localities during April to August 2012. The microscopic analysis of these samples revealed altogether 70 species of algae belonging to three kingdoms; Monera, Protista and Phycota.

Monera included single Phylum Cyanophycota containing two classes, two orders, three families, four genera belonging to eight species *i.e.* *Chroococcus minutes*, *C. tenax*, *C. turgidus*, *Gloeothece rupestris*, *Anabaena affinis*, *Oscillatoria splendida*, *O. subbrevis*, *O. tenuis*.

Kingdom Protista consisted of three Phyla; Bacillariophycota, Dinophycota and Volvophycota, Phylum Bacillariophycota included one class, two orders, nine families, sixteen genera belonging to thirty-three species *i.e.* *Cymbella affinis*, *C. lanceolata*, *C. tumida*, *Denticula tenuis*, *Rhopalodia gibba*, *Fragilaria capucina*, *F. rumpens*, *F. ulna*, *Gomphonema constrictum*, *G. lanceolatum*, *G. olivaceum*, *Synedra acus*, *S. tabulata*, *Anomoeoneis sphaerophora*, *Pinnularia biceps*, *Gyrosigma acuminatum*, *Nitzschia angustata*, *N. clausii*, *N. closterium* var. *reversa*, *N. linearis*, *N. sigma*, *N. sigmoidea*, *Navicula ammophila*, *N. cryptocephala*, *N. gregaria*, *N. hyaline*, *N. peregrine*, *N. salinarum*, *Amphipleura pellucid*, *Cyclotella operculata*, *Coscinodiscus wailesii*, *Surirella splendid*, *Colletonema subcohaerens*. Phylum Dinophycota included one class, one order, one family, one genera and one specie *i.e.* *Glenodinium quadridens*. Phylum Volvophycota included one class, one order, one family, two genera and thirteen species *i.e.* *Cosmarium angulosum*, *C. botrytis*, *C. granatum*, *C. hammeri*, *C. microsphinctum*, *C. portianum*, *C. pseudopyramidatum*, *C. ralfsii*, *C. subcostatum*, *C. pseudovariolatum*, *Staurastrum brachiatum*, *S. polymorphum*, *S. tetracerum*.

Kingdom Phycota included Phylum Chlorophycota with one class, one order, three families, four genera and fifteen species *i.e.* *Pediastrum duplex*, *P. duplex* var. *cohaerens*, *P. duplex* var. *clathratum*, *P. duplex* var. *reticulatum*, *P. integrum*, *P. napoleonis*, *P. simplex* var. *duodenarium*, *P. simplex* var. *echinulatum*, *Tetraedron trigonum*, *Scenedesmus acutus*, *S. armatus*, *S. dimorphus*, *S. Obliquus*, *S. quadricauda* var.