**Table 1:** Microalgal distribution in the water sample of Thachan pond during the (January to June-2014)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No** | **Name of the Species** | **Months-2014** | | | | | |
| **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** |
|  | **Cyanophyceae** |  |  |  |  |  |  |
| **01** | *Microcystis aeruginosa* (Wittr.) Kirchner | + | + | + | + | + | + |
| **02** | *Chroococcus minor* (Kutz.) Nageli | + | + | + | + | + | + |
| **03** | *Lyngbya shackletoli* West | + | - | - | - | - | + |
| **04** | *Oscillatoria curviceps* Ag. ex Gomont | + | + | + | + | + | + |
| **05** | *Oscillatoria subbrevis* Schmidle F. Crassa | - | + | + | - | - | - |
| **06** | *Spirulina major* (Kütz.) Gomont | + | + | + | + | - | + |
| **07** | *Spirulina princeps* Voucher ex. Gomont | + | + | - | - | - | - |
| **08** | *Anabaena spiroides* Klebahn | + | + | + | + | - | + |
| **09** | *Nostoc pruniforme* Ag. | + | + | + | + | + | + |
| **10** | *Oscilltoria tenuis* Ag. Ex Gomont | + | + | + | + | + | + |
| **11** | *Merismopedia minima* Beck | + | + | + | + | - | - |
| **12** | *Chroococcus disperses* (V. Keissler) Lemm. | + | - | - | - | - | + |
| **13** | *Chroococcus minor* (Kutz.) Nageli | + | + | + | - | - | + |
| **14** | *Aphanocapsa grevillei* (Hass.) Rabenh | + | + | + | + | + | + |
|  | **Chlorophyceae** |  |  |  |  |  |  |
| **15** | *Chlamydomonas globosa* Snow. | + | + | + | + | + | + |
| **16** | *Palmella miniata* Lieb. | + | + | + | + | + | + |
| **17** | *Chlorella pyrenoidosa* Chick | - | - | + | + | - | + |
| **18** | *Chlorella vulgaris* Beyernick | + | + | + | - | - | - |
| **19** | *Scenedesmus accuminatus* Kutz. | - | - | + | - | - | + |
| **20** | *Scenedesmus quadricauda* (Turp.) Breb. | + | + | + | + | - | - |
| **21** | *Cladophora crispate* (Roth) Kutz. | - | - | - | - | - | + |
| **22** | *Spirogyra* sps. | + | + | + | + | + | + |
| **23** | *Closterium purvulum* Nageli | + | + | + | + | + | + |
|  | **Euglenophyceae** |  |  |  |  |  |  |
| **24** | *Euglena viridis* Ehr. | + | + | + | + | + | + |
| **25** | *Euglena convolute* Korsch | + | - | - | + | - | + |
| **26** | *Euglena oxyuris* fo. Maior | + | + | - | - | - | + |
| **27** | *Euglena elastica* Presc | + | - | - | + | + | - |
| **28** | *Euglena spirosura* var. fusca | + | + | + | + | + | + |
|  | **Bacillariophyceae or Diatoms** |  |  |  |  |  |  |
| **29** | *Cyclotella meneghiniana* Kutz. | + | + | + | + | + | + |
| **30** | *Actinella punctanta* Lewis | + | + | + | + | + | + |
| **31** | *Amphora ovalis* Kutz. | + | + | + | - | - | + |
| **32** | *Diatoma* sps. | + | + | + | + | + | + |
| **33** | *Navicula cincta* Kutz. | - | - | + | - | - | + |
| **34** | *Navicula peregrina* Kutz. | + | + | - | - | - | + |
| **35** | *Pinnularia borealis* Her. | - | - | - | + | - | - |

**Fig. 1:** Seasonal variation of Temperature ºC

**Fig. 2:** Seasonal variation of pH

**Fig. 3:** Seasonal variation of Turbidity (NTU)

**Fig. 4:** Seasonal variation of Electrical conductivity (µS)

**Fig. 5:** Seasonal variation of Total dissolved solids (mg/l)

**Fig. 6:** Seasonal variation of Total alkalinity (mg/l)

**Fig. 7:** Seasonal variation of Free CO2 (mg/l)

**Fig. 8:** Seasonal variation of Dissolved oxygen (mg/l)

**Fig. 9:** Seasonal variation of Chloride (mg/l)

**Fig. 10:** Seasonal variation of Nitrate and Phosphate (mg/l)

**Fig. 11:** Percentage (%) of Microalgal distribution in Thachan pond