

ABSTRACT OF STUDENT'S PROJECT – 2023

STUDY OF PHYSICO-CHEMICAL PARAMETERS OF POND WATER FROM SELECTED PONDS

Rural people to sustain their life mainly exploit ponds. Therefore, conservation of ponds is important in the present scenario to deal with climate change where drought, floods and erratic rainfall are common. Current work focused on study of physico-chemical parameters in three selected ponds near to VTM NSS college, Dhanuvachapuram.. Water parameters such as temperature, pH, dissolved oxygen, dissolved carbon dioxide was studied. Present study revealed that there was evident change noted in the physical parameters including color, odor and temperature in three different ponds. The pH of the site A is alkaline and others are acidic. Site C is slightly polluted due to waste dumping from nearby tea shops, hotels, household waste etc. Lower value of dissolve oxygen in site C may be due to higher rate of decomposition of organic matter involving the utilization of oxygen. Fishes were observed only in site A & B and only few aquatic insects were observed in C site. From present study it was evident that site A & B supports life and the water quality is preferably good.