

## **ABSTRACT**

Sub lethal doses of Sodium Selenite ( $\text{Na}_2 \text{SeO}_3$ ) were given to pond water fish *Channa punctatus* and its effects were studied. Concentration of sodium Selenite dose was kept constant but the duration of its application was different in different groups of experimental fish. 4 groups of experimental fish were made as A, B, C, D, and were given oral doses for 8, 16, 24, 32 days respectively. For all of these groups, control groups were maintained and were not given selenite salt. The effects of the non-metal on hematological, serological and histological parameters were studied. There was reduction in total erythrocytes (TEC) count; increase in total leukocytes count, and lymphocytes, serum enzymes (ALP, ALAT, ASAT) showed decrease in their activities; the serum creatinin and Biliruibin levels increased; while liver, kidney and intestinal histopathology revealed degenerative changes, necrosis, karyolysis and vocuolization of cytoplasm along with several other associated histological changes.