Fluctuation in comparative account of lipids and iodine number in *Barytelphusa guerini* on exposure to zinc and cadmium sulphate toxicity

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**ABSTRACT**

The fresh water female crab, *Barytelphusa guerini* was selected for experimentation. It was abundantly available in the paddy fields of Nanded district. The animals were collected and brought to the laboratory to acclimatize them with laboratory conditions. Alterations due to the effect of metallic pollutant on the lipid content and iodine number of leg muscle, gill, hepatopancreas, heart and blood of freshwater female crab, *Barytelphusa guerini*, after exposure to sublethal concentration of zinc sulphate and cadmium sulphate for 24, 48, 72 and 96 hours were observed. The values of iodine number content were expressed in terms of iodine number/g dry weight and I$_2$ number/100 ml of blood and total lipid contents were expressed in terms of mg/lipid content/g wet weight and mg lipid/100 ml of blood.

**Key words:** Lipids, Iodine, *Barytelphusa guerini*, Zinc sulphate, Cadmium sulphate