

EFFECTS OF DISSOLVED OXYGEN LEVELS ON THE BEHAVIOR OF HILSA (*Tenualosa ilisha*) UNDER CONTROLLED CONDITIONS

ARGHYA KUNUI¹, BASANTA KUMAR DAS¹, SAURAV K. NANDY¹,
ADIPTA CHAKRABORTY¹, DEBASMITA MOHANTY¹ AND MANOJ K. PATI²

Dissolved Oxygen is a critical parameter for aquatic organisms, particularly those that obtain oxygen directly from water. The present investigation was conducted under controlled conditions with artificial aeration to maintain the optimum dissolved oxygen level and without aeration to evaluate the oxygen consumption. During the stress, the behavioural changes were assessed. This investigation focuses on the effects of DO on Hilsa, including swimming behaviour, survival rates, respiration processes, and metabolic functions in freshwater conditions.

Keywords: *Dissolved Oxygen, Ammonia, Fish Behaviour, Survival rate*
