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METHODICAL INVESTIGATION TO TRACE THERMAL CONTAMINATION

OF RIVER PERIYAR

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ABSTRACT

Water pollution does more than make the river smell bad. It wrecks ecosystems and livelihoods and is not something to be ignored. The main harmful side of water pollution is the raising of the water temperature. In most studies, pollution of water due to artificial means is not concentrated beyond a limit which is the most dangerous stage-thermal pollution. The raising of the air or water temperature by artificial means is thermal pollution. Thermal pollution is largely water associated. Thermal pollution is related to chloro-fluoro carbons (CFCs), carbon dioxide and global warming. The addition of excess of undesirable heat to water thereby making it harmful to man, animal or aquatic life the inter link between thermal pollution of water and air is a vast concern. The addition of these undesirable heats to a level more than the auto recyclable ability of water turns the water more dangerous than poison. Research on regional and global climate changes and variabilities and their impacts on water resources have received considerable attention in recent years. Potential impacts of climate change and its effects have been much in discussion but relatively fewer studies are being done on changes in water quality. From a global perspective, climate change is usually perceived as an increase in average air temperature. So with increase in surface water temperature, air temperature increases. This affects the water quality of river. Most of the bacteriological activities and chemical activities of the river increase with increase in water temperature, which reduces the dissolved oxygen in the river. In this work, a detailed survey on river Periyar has been done to encounter the amount of thermal pollution it undergoes and the net impact on global warming. This survey report will be very helpful for the researchers who focus on the river and its diversity to be protected.

KEYWORDS: Methodical Investigation