

**WATER POLLUTION STUDY IN NALANDA  
LAKE TO IMPROVE THE WATER QUALITY OF  
NAULA TREATMENT PLANT**

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by

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## **Abstract**

Matale District in central province has a lot of Natural water resources. And also compare to other area that water have a high amount of Dissolved Oxygen (DO) concentration. National Water supply and Drainage board in Naula pumping Nalanada reservoir water for their treatment plant.

But Water board faces a big problem in the dry season because pumping water had a less amount of Dissolved Oxygen (DO) and occurring Black color.

Five points were selected in the upstream from the water pumping inlet. Samples were collected within four weeks. Therefore 25 samples were collected. Initial DO was measured the sample collected points. And after five day BOD was measured. And also Total Nitrogen and Total phosphate were measured.

According to the results TN and TP devour an inverse relationship. It can be vary with the season wise. Main objective of this research is developed the mathematical model for recognize the influence of the polluted point to the water pumping inlet. Therefore major conclusion was not any effect that polluted points were inside the 1750m ahead the pumping point.