

CHANGES IN GROUND WATER QUALITY OF TEXTILE CITY BHILWARA AFTER COVID-19 LOCKDOWN

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Abstract

The painful crisis of COVID-19 pandemic has been faced by all, over the world and also in India since the 24th of March, 2020 lockdown. During this period, industries were shut down in India. It is well known that this crisis has affected the economy and social life and has promoted significant beneficial changes in terms of the environment and atmospheric pollution. In the present work, groundwater has been measured at the local level to identify the effect of COVID-19 lockdown which provides the details to analyze the impact on water quality. The process was started by collecting samples from nine different sites near Bhilwara when lockdown started in March of 2020. Ten samples were collected from identical sites after the lockdown ended in May of 2020. When we compare both these results, significant changes were observed in water quality parameters. The parameters also showed considerable variation, which is discussed in the results after investigating the above parameters. It is verified that the values of the groundwater parameters after lockdown were closer to the shared values of WHO (2006), which concluded that the COVID-19 lockdown period has played a significant role in reducing groundwater pollution.

Keywords: COVID-19, Emergency, Enhancement, Textile Industry, Universal study, Water quality.