Study of Improvements in Semi Arid Region Jaipur Air Quality Due to COVID -19 During Lock Down Period

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Abstract: To prevent the COVID-19 epidemic in India, it was decided by government of India to fully lock down to control the pandemic. The first phase of lockdown started from 24th March to 14th April 2020. During this lockdown, no vehicles ran on the roads, no flight flew and all kinds of big and small factories also remained completely closed. During this lock down, a very good thing was seen that air quality level improved a lot after just a few days of the lock down. In this study, status of significant air pollutants are discussed that reduced during lock down period. For this study, six significant air pollutants discussed during lockdown and prior lockdown period for Jaipur city of India, which are the following: PM\(_{10}\), PM\(_{2.5}\), NO\(_2\), NOx, CO and O\(_3\). It is clearly found in study that the concentration significant air pollutants such as PM2.5 and PM10 reduced <35% during the lock down period in contrast with the prior lockdown time. A significant decrease of 62.27% and 48.23% was observed in PM\(_{10}\) and PM\(_{2.5}\) levels have during lockdown period in contrast with the most recent year. Along with this, it is seen that there is a decrease in level of NO\(_2\) about - 57.60 %) and -43.56% in the level of CO during the lockdown period.

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