A correlation of particulate matter with gaseous pollutants in ambient air of Dindigul town

D. SARALA THAMBAVANI AND V. PRATHIPA

SUMMARY

The importance of correlation and regression among air pollutants such as gaseous pollutants (SO₂ and NOₓ) and particulate matter (SPM and RPM) in ambient air quality were studied. Air pollutant in the ambient air at leather tanneries, traffic-cum-commercial and residential area were collected from Dindigul town. Air quality deterioration especially in Dindigul town was one of the must altering problems of modern civilization. The concentration of gaseous pollutants and particulate matter were found to be high and the results showed good correlation among them. All the correlations were found to be good to excellent indicating an ecosystem under identical or near identical natural condition. Present investigation shows significant positive correlation among the particulate matter and gaseous pollutant.

Key words:
Correlation, Suspended particulate matter (SPM), Air quality, Respirable particulate matter (RPM), Ambient