NOMENCLATURE

SPM  Suspended Particulate Matter  
SO₂  Sulphur dioxide  
CO   Carbon monoxide  
NOₓ  Oxides of Nitrogen  
O₃   Ozone  
NO₂  Nitrogen dioxide  
NEDA N-(Naphthyl) - Ethylenediamine Dihydrochloride  
T    Surface Temperature °C  
P    Atmospheric Pressure mb  
WV   Wind Velocity km/h  
PWD  Prevailing Wind Direction°  
RH   Relative Humidity %  
Po.M Post Monsoon  
S    Summer  
Pr. M Pre Monsoon  
M    Monsoon  
AQI  Air Quality Index  
LAP  Light Air Pollution  
MAP  Medium Air Pollution  
HAP  Heavy Air Pollution  
SAP  Severe Air pollution  
CA   Clean Air  
S.I  Sub Index  
\( C_{s} \) Ambient Air Quality Standards  
MDR Major District road  
N North  
NE  North East  
E East  
SE South East
S  South
SW South West
W  West
NW North West
O  Mean Observed Concentration
P  Mean Predicted Concentration
O_j  Observed concentration of the data series
O_{min}  Minimum concentration of the data series
O_{max}  Maximum concentration of the data series
N_j  Normalized concentration of the observed data series
P_j  Predicted concentration of the data series
M_j  Normalized concentration of the predicted data series
ARIMA  Auto Regressive Integrated Moving Average
ARIMAX  Auto Regressive Integrated Moving Average with Exogenous variables
ARX  Auto Regressive with Exogenous variables
ANNs  Artificial neural networks
ME  Mean Error
RMSE  Root Mean Square Error
R  Correlation Coefficient
R^2  Regression Coefficient
d_o  index of agreement
FB  Fractional Bias
NMSE  Normalised Mean Square Error
Fa2  Factor of Two
\sigma_o  Standard deviation of the Observed concentration of the test set
\sigma_p  Standard deviation of the Predicted concentration of the test set
a, b  Coefficients of straight line fit of the predicted values of the test set

UAQMS-Urban Air Quality Monitoring Station