

Acronyms

$\mu\text{g}/\text{m}^3$	Microgram per cubic metre
ABL	Atmospheric boundary layer
ADMS	Atmospheric Dispersion Modelling System
AERMAP	Terrain Processor of AERMOD
AERMET	Pre-processor of AERMOD
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
ANOVA	Analysis of variance
CERC	Cambridge Environmental Research Consultants
CFD	Computational Fluid Dynamics
CMRI	Central Institute of Mining and Fuel Research
CO	Carbon monoxide
CSE	Centre for Science and Environment
d	Index of Agreement
DEM	Digital elevation model
EIA	Environmental Impact Assessment
EMP	Environmental management plan
ESRL	Earth System Research Laboratory
FB	Fractional Bias
FDM	Fugitive Dust Model
FS	Fractional Variance
GIS	Geographical Information Systems
GPS	Global Positioning System
IMD	Indian Meteorological Department
ISC3	Industrial Source Complex model
L	Monin–Obukhov length
LES	Large eddy simulation
LP	Lagrangian particle tracking
MG	Geometric Bias
MoEF	Ministry of Environment, Forest and Climate Change
MT	Million Tones
NAAQS	National Ambient Air Quality Standards
NMSE	Normalised Mean Square Error
NOAA	National Oceanic and Atmospheric Administration
NO_x	Oxides of nitrogen
OCP	Opencast project
PAL2	Line Sources Model
PM	Particulate matter
PM_{10}	Particulate matter less than $10 \mu\text{m}$ aerodynamic diameter
$\text{PM}_{2.5}$	Particulate matter less than $2.5 \mu\text{m}$ aerodynamic diameter
Q-Q	Quantile Quantile
r	Coefficient of correlation
R^2	Correlation coefficient
RSPM	Respirable suspended particulate matter
SM	Surface Miner
SO_2	Sulphur dioxide

SODAR	Sonic detection and ranging
SPM	Suspended particulate matter
TISCO	Tata Steel
TKE	Turbulence kinetic energy
TSP	Total suspended particulate matter
USEPA	Environmental Protection Agency, USA
USGS	United States Geological Survey
VG	Geometric Mean
VOC	Volatile organic compounds
WRF	Weather Research and Forecasting