

## Acronyms / Abbreviations / Symbols

%	: Percentage
$\Delta$	: Delta
$^{\circ}\text{C}$	: Degree centigrade
$\mu\text{m}$	: Micrometer
AGB	: Aboveground biomass
AMS	: Agro-Meteorological Station
AWS	: Automatic Weather Station
ANOVA	: Analysis of variance
AOD	: Aerosol Optical Depth
APAR	: Absorbed Photosynthetically Active Radiation
AVHRR	: Advanced Very High Resolution Radiometer
AWS	: Automated Weather Station
BES	: Bopal Earth Station
BNP	: Bandhavgad National Park
C	: Carbon
CASA	: Carnegie-Ames-Stanford-Approach
$\text{cm}^{-3}$	: Centimetre cube
DBH	: Diameter at breast height
DLEM	: Dynamic Land Ecosystem Model
DOY	: Day-Of-Year Calendar
DRT	: Data-Relay Transponders
E	: East
$\epsilon$	: Epsilon
ET	: Evapotranspiration
ETM+	: Enhanced Thematic Mapper Plus
FLAASH	: Fast Line-of-sight Atmospheric Analysis of Spectral Hyper cubes
fPAR	: fraction of Photosynthetically Active Radiation
FRA	: Forest Resources Assessments
FSI	: Forest Survey of India
$\text{gC m}^{-2}$	: grams carbon per meter square
GFRA	: Global Forest Resources Assessments
GloPEM	: Global Production Efficiency Model
GPP	: Gross Primary Productivity
INSAT	: Indian National Satellite System
IPCC	: Intergovernmental Panel on Climate Change
ISRO	: The Indian Space Research Organisation
Kg	: Kilogram
$\text{km}^2$	: Square Kilometer
KNP	: Kanha National Park
KP	: Kilo Pascal
LUE	: Light Use Efficiency

LULC	: Land Use Land Cover
M	: Meter
Mg	: Mega gram
Mha	: Million hectare
MJ	: Mega Joule
MNP	: Madhav National Park
MODIS	: Moderate-resolution imaging spectroradiometer
MOSDAC	: Meteorological and Oceanographic Satellite Data Archival Centre
MPFD	: Madhya Pradesh Forest Department
N	: North
NASA	: National Aeronautics and Space Administration
NDVI	: Normalized Difference Vegetative Index
NIR	: Near Infrared
NOAA	: National Oceanic and Atmospheric Administration
NPP	: Net Primary Productivity
P	: Precipitation
PEM	: Production Efficiency Models
PET	: Potential Evapotranspiration
PgC yr <sup>-1</sup>	: Peta gram carbon per year
r	: Coefficient of correlation
R <sup>2</sup>	: Coefficient of determination
RD	: Relative Deviation
RMSE	: Root Mean Square Error
SD	: Standard Deviation
SLC	: Scan Line Corrector
sq.km	: Square kilometer
SWR	: Shortwave Radiation
TEM	: Terrestrial Ecosystem Model
TM	: Thematic Mapper
Tmax	: Maximum temperature
Tmin	: Minimum temperature
TOA	: Top-of-Atmosphere
TOMS	: Total Ozone Monitoring Spectrometer
UNFCCC	: The United Nations Framework Convention on Climate Change
USGS	: U.S. Geological Survey
VPM	: Vegetation Photosynthesis Model
Wm <sup>-2</sup>	: Watts per meter square
Π	: pi