

ABBREVIATIONS

ALA	Average Leaf Angle
ASA-APP	ASAR Alternating Polarization mode Precision image
ASAR	Advanced Synthetic Aperture Radar
BS	Soil brightness
BSQ	Band Sequential Format
Cab	Chlorophyll a+b content
Cbp	Leaf brown pigment content
CC	Leaf Chlorophyll content
Cdm	Leaf dry matter content
cm	Centimeter
CR	Canopy-Reflectance
Cw	Leaf water content
DAP	District Agriculture Plan
dB	Decibel
DN	Digital Number
DW	Dry Weight
EMR	Electro Magnetic Radiation
EMS	Electro Magnetic Spectrum
ENVI	ENVIronment for visualizing images
ENVISAT	Environmental Satellite
ERDAS	Earth Resources Data Analysis Systems
ESA	European Space Agency

ET	Evapo-Transpiration
FAO	Food and Agriculture Organization of the United Nations
FW	Fresh Weight
g	Gram
GCES	General Crop Estimation Survey
GCP	Ground Control Point
GDP	Gross Domestic Product
GIS	Geographic Information System
GPS	Global Positioning System
H	Horizontally polarized microwaves
ha	Hectare
HH	Horizontal Transmit, Horizontal Receive
HV	Horizontal Transmit, Vertical Receive
IFOV	Instantaneous Field Of View
IMD	Indian Meteorological Department
IPCC	Intergovernmental Panel on Climate Change
IR	Infrared
IRS	Indian Remote Sensing
kg	Kilogram
km	Kilometer
LAI	Leaf area index
LISS	Linear Imaging Self Scanning sensor
LUT	Look Up Table

m	Meter
mg	Milligram
MLC	Maximum Likelihood Classification
mm	Millimeter
Mono	Mono mode
MSS	MultiSpectral Scanner
Mx	Multi-spectral mode
N	Leaf Mesophyll Structure Parameter
NDVI	Normalized Difference Vegetation Index
NDWI	Normalized Difference Water Index
NIR	Near Infrared
nm	nanometers
PAR	Photosynthetically Active Radiation
POLSARPRO	Polarimetric SAR Data Processing and Educational Tool
PP	Phytomass Production
PROSPECT	model of leaf optical PROPERTIES SPECTra
R²	Coefficient of determination
RADAR	RADio Detection And Ranging
RS	Remote Sensing
RT	Radiative Transfer
RVI	Ratio Vegetation Index
RWC	Relative Water Content
SAIL	Scattering by Arbitrarily Inclined Leaves

SAR	Synthetic Aperture Radar
SAVI	Soil Adjusted Vegetation Index
sL	Hot spot parameter
SOI	Survey of India
SR	Simple Ratio
SWIR	Shortwave Infrared
TM	Thematic Mapper
TW	Turgid Weight
V	Vertically polarized microwaves
VH	Vertical Transmit, Horizontal Receive
VHI	Vegetation Health Index
VI	Vegetation Index
VV	Vertical Transmit, Vertical Receive
WDVI	Weighted Difference Vegetation Index
WGS	World Geodetic System
θ_l	Mean leaf inclination angle
θ_s	Solar zenith angle
θ_v	View zenith angle
σ°	Backscattering coefficient
ϕ_{sv}	Relative azimuth angle
μm	micrometer