

LIST OF ABBREVIATIONS

%	Percentage
°C	Degree Celsius
λ_{GP}	Wavelengths at Green Reflectance Peak
λ_{RW}	Wavelengths At Red Absorption Well
λ_{BDmax}	Wavelength of Maximum Band Depth
ABDI	Angle Based Drought Index
ANMB	Area under the Curve Normalized to Maximum Band Depth
AVHRR	Advanced Very High Resolution Radiometer
AVIRIS	Airborne Visible Infrared Imaging Spectrometer
AWiFS	Advance Wide Field Sensor
BD	Band Depth
BD_{max}	Band Depth Maxima
CASI	Compact Airborne Spectrographic Imager
CRM	Coefficient of Residual Mass
CRR	Continuum Removed Reflectance
CV-AMVC	Constrained View Angle Maximum Value Composite
DAS	Days after Showing
DGPS	Differential GPS
DN	Digital Number
DOY	Day of the Year (Julian Day)
DPC	Disease Progress Curve
DPM	Dimidiate Pixel Model
DSI	Disease Severity Index
DWSI	Disease Water Stress Index
e.g	Example
EC-JRC	European Commission–Joint Research Centre
EGS	End of Growing Season
EMR	Electromagnetic Radiation
ENVI	Environment for Visualizing Images
ENVISAT	Environmental Satellite

EO	Earth Observation
ERDAS	Earth Resource Data Analysis Systems
et al	Co-authors
FAO	Food and Agriculture Organization
FCC	False Colour Composite
FOV	Field of view
FWHM	Full Width Half Maxima
GIS	Geographic Information System
GOI	Government of India
GPP	Gross Primary Production
GPS	Global Positioning System
GVF	Green Vegetation Fraction
ha	Hector Area
ICT	Information Communication Technology
IMD	Indian Metrological Department
INSAT	Indian National Satellite
IR	Infrared
IRS	Indian Remote Sensing Satellite
ISRO	Indian Space Research Organization
LSWI	Land Surface Water Index
MCTK	MODIS Conversion Toolkit
ME	Modelling Efficiency
MIVIS	Multispectral Infrared and Visible Imaging Spectrometer
mm	Millimetre
MNF	Minimum Noise Fraction
MODIS	Moderate Resolution Imaging Spectroradiometer
MSI	Moisture Stress Index
MSS	Multispectral Scanner
MT	Metric Ton
MVC	Maximum Value Composite
N	North
NASA	National Aeronautics and Space Administration
NDAI	Normalized Difference Angle Index

NDII	Normalised Difference Infrared Index
NDVI	Normalized Difference Vegetation Index
NDWI	Normalized Difference Water Index
NIR	Near-Infrared
nm	Nanometre
NOAA	National Oceanic and Atmospheric Administration
NRSC	National Remote Sensing Agency
PAR	Photosynthetically Active Radiation
PCCF	Potato Crop Canopy Fraction
PDA	Photodiode Arrays
PIB	Press Information Bureau
PLB	Potato Late Blight
PPI	Pixel Purity Index
PSDI	Plant Stress Detection Index
REP	Red-Edge Position
RH	Relative Humidity
RMSE	Root Mean Square Error
rRMSE	Relative Root Mean Square Error
RS	Remote Sensing
SAM	Spectral Angel Mapper
SASI	Shortwave Angle Slope Index
SAVI	Soil Adjusted Vegetation Index
SGS	Start of Growing Season
SMA	Spectral Mixture Analysis
SNR	Signal-to-Noise Ratio
SOI	Survey of India
SPOT	Satellite Pour l'Observation de la Terre
sq km	Square Kilometre
SWIR	Shortwave Infrared
TIR	Thermal Infrared
TM	Thematic Mapper
T _{NDVI}	Time-integrated NDVI
TOA	Top-of-atmosphere

UTM	Universal Transverse Mercator
UV	Ultraviolet
VI	Vegetation Index
VNIR	Visible-Near Infrared
WGS	Worlds Geodetic System
WMO	World Meteorological Organization