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## ABBREVIATIONS

AAS	Atomic Absorption Spectrophotometer
AHP	Analytical Hierarchy Analysis
ANN	Artificial Neural Network
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer
AVHRR	Advanced very-high-resolution radiometer
AW <sub>1</sub>	Tropical wet
B.A.E	Bureau of Applied Economics
B.A.E.S	Bureau of Applied Economics & Statistics
BARC	Bangladesh Agriculture Research Council
ca	exchangeable calcium
CAD	Computer Aided Drafting
CDs	Compact Discs
CDAP	Comprehensive District Agriculture Plan
CI	Cropping Intensity
CI	Consistency index
Cm	Centimeter
CR	Consistency Ratio
CSO	Central Statistics Office
<sup>o</sup> C	Degree Celsius
CW <sub>g3</sub>	Warm summer and mild winter
D	Continental
DAC	Department of Agriculture & Cooperation
DBMS	Database Management System
DSS	Decision Support Systems
DTPA	Diethylenetriaminepentaacetic Acid
Ec	Electrical Conductivity
EOS	Earth Observing Satellite
ESRI	Environmental System Research Institute
Eq	Equation
FAO	Food and Agricultural Organization
FCC	False Colour Composite
FPAR	Field-based Fraction of Photosynthetic Active Radiation
<b>FRG</b>	Fertilizer Recommendation Guide
FSI	Forest Survey of India
g	Gram
GA	Genetic Algorithm
GCA	Gross Cropped Area
GCPs	Ground Control Points
GDP	Gross Domestic Product
GIS	Geographic Information System
GOI	Government of India
GPS	Global Position System
GSDP	Gross State Domestic Product
GSG	Great Soil Group
H. D. R	Human Development Report
HYV	<i>High Yielding Varieties</i>

IDW	Inverse Distance Weighted
IRS	Indian Remote Sensing
IISS	Indian Institute of Soil Science
K	Potassium
Kg	Kilogram
kg/ha	Kilogram/ Hectare
Km	Kilometer
LAI	Leaf Area Index
Landsat	Land Satellites
LCs	Land Characteristics
LE	Land Evaluation
LISS	Linear Imaging Self Scanning
LS	Land Suitability
LSA	Land Suitability Assessment
LSE	Land Suitability Evaluation
LQ	Land Quality
LU	Land Unit
LUCC	Land Use Capability Class
LUCS	Land Use Capability Sub-class
LUP	Land Use Planning
LUE	Light use efficiency
MCA	Multi- Criteria Analysis
MCE	Multi-Criteria Evaluation
MCDA	Multi-Criteria Decision Making
MSL	Mean Sea Level
Meq	milliequivalents
MLC	Maximum Likelihood Classifier
Mg	Magnesium
mm	millimeter
MODIS	Moderate Resolution Imaging Spectroradiometer
MS	Micro Soft
MT/ha	Million ton/Hectare
N	Nitrogen
NABARD	National Bank for Agriculture and Rural Development
NDVI	Normalized Difference Vegetation Index
NASA	National Aeronautics and Space Administration
NATMO	Thematic Mapping Organisation
NBBS	National Bureau of Soil Survey
NCA	Net Cropped Area
NIR	Near Infrared
nos.	Numbers
O.C.	Organic Carbon
OLI	Operational Land Imager
O.M.	Organic Matter
OSP	Other Soil Properties
P	Phosphorous
PA	Precision Agriculture
PAO	Public Affairs Office
PC	Pair-wise Comparison
PF	Precision Farming

ppm	Parts per million
PRA	Participatory Research Appraisal
PWCM	Pair Wise Comparison Matrix
R	Reflectance
RGB	Red Green Blue
RI	Random consistency Index
RS	Remote Sensing
RDBMS	Relational Data Base Management System
S	Soil Quality
Sa	Salt Hazard Situation
SDP	State Domestic Product
SOI	Survey of India
SREP	Strategic Research and Extension Plan
SLM	Sustainable Land Management
SLM	Simple Limitation Method
SOC	Soil Organic Carbon
SOM	Soil Organic Matter
sq. km	Square Kilometer
SR	Simple Ratio
SSM	Site-Specific Management
ST	Soil Texture
T	Terrain Information
TM	Thematic Mapper
TRIS	Thermal Infrared Sensor
tons/ha	Ton/Hectare
TOC	Total Organic Carbon
UNDP	United Nations Development Program
US	Unites States
USA	United States of America
USDA	United States Department of Agriculture
UTM	Universal Transverse Mercator
UTM	Universal Transverse Mercator
$\mu\text{m}$	micrometer
VI <sub>s</sub>	Vegetation Indices
VRA	Variable Rate Application
VRT	Variable Rate Technology
W	Water Availability
WB	West Bengal
WGS	World Geodetic System
WLC	Weightage Linear Combination
Zn	Zinc
%	per cent
$\lambda_{\text{max}}$	Principal eigenvalue