



Abbreviations

ABI	Agri-Business Incubation
ABNJ	Areas Beyond National Jurisdiction
ACABC	Agri-Clinic and Abri-business Centre
ACARE	Advanced Centre for Agricultural Research and Education
ADSS	Autonomous Decision Support Systems
AHRD	Agricultural Human Resource Development
AI	Artificial Intelligence
AICARP	All India Coordinated Agronomic Research Project
AICMIP	All India Co-ordinated Millets Improvement Project
AICPIP	All India Coordinated Pulse Improvement Project
AICRIP	All India Coordinated Rice Improvement Project
AICRP	All India Coordinated Research Project
AICRPO	All India Coordinated Research Project on Oilseeds
AICVIP	All India Coordinated Vegetable Improvement Project
AICWIP	All India Coordinated Wheat Improvement Project
AIEEA	All India Entrance Examinations for Admission
AINP	All India Network Project
AMR	Anti-microbial Resistance
ANASTU	Afghan National Agricultural Sciences and Technology University
APAARI	Asia-Pacific Association of Agriculture Research Institutions
APC	Agro-Processing Centers
APCAEM	Asian and Pacific Centre for Agricultural Engineering and Machinery
APMC	Agricultural Produce Market Committee
APMR	Agriculture Produce Marketing Regulation
ARS	Agricultural Research Services
ARYA	Attracting and Retaining Youth in Agriculture
ASEAN	Association of South East Nations
ASRB	Agricultural Scientists Recruitment Board
ATIC	Agricultural Technology Information Centre
ATMA	Agricultural Technology Management Agency
AVRDC	Asian Vegetable Research & Development Centre
AWS	Automatic Weather Stations
BARC	Bangladesh Agricultural Research Council
BBF	Broad Bed and Furrow
BBRC	Bioscience Biotechnology Research Communications
BGA	Blue Green Algae
BI	Bioversity International
BIMSTEC	Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation
BIRAC	Biotechnology Industry Research Assistance Council
BIS	Bureau of Indian Standards
BISA	Borlaug Institute for South Asia

BMC	Broodstock Multiplication Centres
BMGF	Bill & Melinda Gates Foundation
BPD	Business Planning and Development
BRDs	By-catch Reduction Devices
BRICS	Brazil, Russia, India, China and South Africa
BSAA	Belarusian State Agricultural Academy
BSMA	Broad Subject Matter Area
CAAS	Chinese Academy of Agricultural Sciences
CABI	Centre for Agriculture & Biosciences International
CACP	Commission for Agricultural Costs & Prices
CAFRI	Central Agroforestry Research Institute
CAGR	Compound Annual Growth Rate
CAS	Centre of Advanced Studies
CAZRI	Central Arid Zone Research Institute
CBP	Capacity Building Program
CCAFS	Climate Change, Agriculture and Food Security
CCARI	Central Coastal Agriculture Research Institute
CCIS	Comprehensive Crop Insurance Scheme
CDP	Community Development Programme
CGIAR	Consultative Group for International Agricultural Research
CHC	Custom Hiring Centre
CIAE	Central Institute of Agricultural Engineering
CIAH	Central Institute for Arid Horticulture
CIAT	International Centre for Tropical Agriculture
CIB	Central Insecticides Board
CIBA	Central Institute of Brackishwater Aquaculture
CIDA	Canadian International Development Agency
CIFA	Central Institute of Freshwater Aquaculture
CIFE	Central Institute of Fisheries Education
CIFRI	Central Inland Fisheries Research Institute
CIFT	Central Institute of Fisheries Technology
CIMMYT	International Maize and Wheat Improvement Centre
CIP	International Potato Centre
CIRAD	Centre for International Research on Agricultural Development
CIRCOT	Central Institute for Research on Cotton Technology
CISH	Central Institute for Subtropical Horticulture
CMFRI	Central Marine Fisheries Research Institute
CPCRI	Central Plantation Crops Research Institute
CPE	Cumulative pan evaporation
CRIDA	Central Research Institute for Dryland Agriculture
CRISPR	Clustered Regularly Interspaced Short Palindromic Repeats
CRM	Crop Residue Management
CROPSAP	Crop Pest Surveillance and Advisory Project
CSCA	Central Staff College for Agriculture
CSIR	Council of Scientific and Industrial Research
CSIRO	Commonwealth Scientific and Industrial Research Organization
CSISA	Cereal Systems Initiative South Asia
CSMCRI	Central Salt and Marine Chemicals Research Institute

CSS	Central Sector Scheme
CSSRI	Central Soil Salinity Research Institute
CWC	Central Warehousing Corporation
DACP	District Agricultural Contingency Plans
DAFW	Department of Agriculture & Farmers Welfare
DARE	Department of Agricultural Research & Education
DARS	Desert Afforestation Research Station
DBT	Department of Biotechnology
DCFR	Directorate of Coldwater Fisheries Research
DDG	Deputy Director-General
DDPSC	Donald Danforth Plant Science Center
DFID	Department for International Development
DISA	District-level Institute of Scientific Agriculture
DOA	Directorate of Oilseeds Research (now Indian Institute of Oilseeds Research)
DPPQS	Directorate of Plant Protection Quarantine and Storage
DSR	Direct seeded rice
DWR	Direcorate of Wheat Research
e-NAM	e-National Agriculture Market
EAFM	Ecosystem Approach to Fisheries Management
EC	Electrical Conductivity
EEZ	Exclusive Economic Zone
EIA	Environmental impact assessment
EIAR	Ethiopian Institute of Agriculture Research
ELKS	Enhancing livelihoods through livestock knowledge systems
EPNs	Entomopathogenic Nematodes
ETP	Effluent Treatment Ponds
ETP	Endangered Threatened and Protected
EUS	Epizootic Ulcerative Syndrome
FAO	Food and Agriculture Organization
FAW	Fall armyworm
FCI	Food Corporation of India
FFS	Farmer Field School
FISH	Fluorescence <i>in situ</i> hybridization
FLRP	Food Legumes Research Platform
FPC	Farmers Producers Company
FPO	Farmer Producers Organizations
FSI	Fishery Survey of India
GAP	Good Agricultural Practices
GBPUAT	Govind Ballabh Pant University of Agriculture and Technology
GCF	Gross Capital Formation
GDP	Gross Domestic Product
GEAC	Genetic Engineering Appraisal Committee
GEBV	Genomic Estimated Breeding Value
GER	Gross Enrolment Ratio
GTV	Goat Tissue Virus
GUI	Graphic User Interface
GVA	Gross Value Added
HCIO	Herbarium Cryptogamae India Orientalis

HPR	Host Plant Resistance
HPV	Hepatopancreatic parovirus
HSI	Hyperspectral imaging
HYVP	High Yielding Varieties Programme
IAN	Indian Agriculture Network
IAP	India Agricultural Programme
IARI	Indian Agricultural Research Institute
IBSA	India, Brazil and South Africa
ICAR	Indian Council of Agricultural Research
ICARDA	International Centre for Agricultural Research in the Dry Areas
ICFRE	Indian Council of Forestry Research & Education
ICGEB	International Centre for Genetic Engineering and Biotechnology
ICIMOD	International Centre for Integrated Mountain Development
ICMR	Indian Council of Medical Research
ICRAF	World Agro-Forestry Centre
ICRISAT	International Crop Research Institute for the Semi Arid Tropics
ICT	Information and Communication Technology
IDA	International Depository Authority
IDLAM	Integrated District Level Adaptation and Mitigation
IDWR	Indian Daily Weather Report
IEC	Information, Education and Communication
IFDC	International Fertilizer Development Center
IFPRI	International Food Policy Research Institute
IFS	Integrated Farming System
IHHNV	Infectious hypodermal and haematopoietic necrosis virus
IIFSR	Indian Institute of Farming Systems Research
IINRG	Indian Institute of Natural Resin and Gums
IISR	Indian Institute of Sugarcane Research
IISS	Indian Institute of Soil Science
IIWM	Indian Institute of Water Management
ILRI	International Livestock Research Institute
IMD	India Meteorological Department
IMNV	Infectious myonecrosis virus
IMTA	Integrated Multi-trophic Aquaculture
IMTECH	Institute of Microbial Technology
INFAAR	Indian Network of Fishery and Animals Antimicrobial Resistance
INRAE	National Research Institute for Agriculture, Food and Environment
IOFS	Integrated organic farming system
IPM	Integrated Pest Management
IR	International Relations
IRDP	Integrated Rural Development Programme
IRRI	International Rice Research Institute
ISHS	International Society for Horticulture Sciences
ISRO	Indian Space Research Organization
ISTA	International Seed Testing Association
ITCC	Indian Type Culture Collection
ITD	Innovations in Technology Dissemination
IVLP	Institution Village Linkage Programme

IVRI	Indian Veterinary Research Institute
IW	Irrigation Water
IWM	Integrated weed management
IWMI	International Water Management Institute
JFE-SSD	Juvenile Fish Excluder cum Shrimp Sorting Device
JIRCAS	Japan International Research Center for Agricultural Sciences
JTRL	Jute Technological Research Institute
KCC	Kisan Credit Card
KSHAMATA	Knowledge System for Homestead Agriculture Management in Tribal Areas
KTI	Kunitz Trypsin Inhibitor
KVK	Krishi Vigyan Kendra
LCA	Life Cycle Analysis
LGP	Length of Growing Periods
LTFE	Long-term Fertilizer Experiments
MACS	Mutually-Aided Cooperative Society
MBV	Monodon baculusvirus
MCA	Ministry of Corporate Affairs
MCE	Multi-Criteria Evaluation
MERU	Multidisciplinary Education and Research University
MGNREGA	Mahatma Gandhi National Rural Employment Guarantee Act
MIDH	Mission for Integrated Development of Horticulture
MoFPI	Ministry of Food Processing Industries
MOVCD	Mission on Organic Value Chain Development
MOVCD-NER	Mission Organic Value Chain Development for North Eastern Region
MPEDA	Marine Products Export Development Authority
MRL	Maximum residue limits
MSME	Medium, Small, Micro Enterprises
MSNP	Micro and Secondary Nutrients and Pollutant
MSP	Minimum Support Price
MSRS	Multistage Stratified Random Sampling
MSU	Michigan State University
MSY	Maximum Sustainable Yield
NAARM	National Academy of Agricultural Research Management
NAAS	National Academy of Agricultural Sciences
NABARD	National Bank for Agriculture & Rural Development
NAC	Norms and Accreditation Committee
NACA	Network of Aquaculture Centres in Asia-Pacific
NAEAB	National Agricultural Education Accreditation Board
NAHEP	National Agricultural Higher Education Project
NAIF	National Agriculture Innovation Fund
NAIMCC	National Agriculturally Important Microbial Culture Collection
NAIP	National Agricultural Innovation Project
NARES	National Agricultural Research and Education System
NARI	Nutri-Sensitive Agricultural Resources & Innovations
NARO	National Agricultural Research Organization
NARP	National Agricultural Research Project
NARS	National Agricultural Research System
NASF	National Agricultural Science Fund

NATP	National Agricultural Technology Project
NBAIR	National Bureau of Agricultural Insect Resources
NBFGR	National Bureau of Fish Genetic Resources
NBPGR	National Bureau of Plant Genetic Resources
NBSS&LUP	National Bureau of Soil Survey and Land Use Planning
NCA	National Commission on Agriculture
NCDC	National Cooperative Development Corporation
NCIPM	National Research Centre for Integrated Pest Management
NCPA	National Committee on use of Plastics in Agriculture
NCPAH	National Committee on Plasticulture Applications in Horticulture
NEH	North Eastern Hill
NFBASFARA	National Agricultural Innovation Project and the National Fund for Basic, Strategic and Frontier Application Research in Agriculture
NFDB	National Fisheries Development Board
FFBB	National Freshwater Fish Brood Bank
NHAEP	National Higher Agricultural Education Project
NHB	National Horticulture Board
NHG	National Hybridization Garden
NIASM	National Institute of Abiotic Stress Management
NIBSM	National Institute of Biotic Stress Management
NICRA	National Innovation on Climate Resilient Agriculture
NIDHI	National Initiative for Developing and Harnessing Innovations
NILERD	National Institute of Labour Economics Research and Development
NIM	National Insect Museum
NIOT	National Institute of Ocean Technology
NIPB	National Institute for Plant Biotechnology
NIRJAFT	National Institute of Research on Jute and Allied Fibres Technology
NMCG	National Mission for Clean Ganga
NMSA	National Mission for Sustainable Agriculture
NPC	National Pusa Collection
NPOF	Network Project on Organic Farming
NPV	Nuclear Polyhedrosis Viruses
NRFC	National Repository of Fish Cell lines
NRG	Natural resins and gums
NRLMP	National Rural Livelihood Mission
NRM	Natural Resource Management
NSPAAD	National Surveillance Programme for Aquatic Animal Diseases
NTC	National Training Centre
NWDPRA	National Watershed Development Programme for Rainfed Areas
ODL	Open and Distance Learning
OGL	Open General Licensing
ORP	Operational Research Programme
OSU	OHIO State University
PACS	Primary Agricultural Cooperative Society
PAW	Parthenium Awareness Week
PDCSR	Project Directorate for Cropping Systems Research
PDF	Post-doctoral Fellowship
PDS	Public Distribution System

PEASEM	Plastic Engineering in Agricultural & Environment Management
PGPR	Plant Growth Promoting Rhizobacteria
PGS	Post Graduate Scholarship
PHET	Post-harvest Engineering and Technology
PIRRCOM	Project on Intensification of Regional Research in Cotton, Oilseeds, and Maize
PKVY	Paramparaghata Krishi Vikas Yojana
PM-KISAN	Pradhan Mantri Kisan Samman Nidhi
PME	Priority Setting Monitoring & Evaluation
PMKSY	Pradhan Mantri Krishi Sinchayee Yojana
PMFME	Prime Minister Formalization of Micro Food Processing Enterprises
PPVFR	Protection of Plant Variety and Farmers Rights
PRECIS	Providing Regional Climates for Impacts Studies
PSSB	Professional Standard Setting Body
PYE	Potential Yield Estimation
QPM	Quality Protein Maize
RAWE	Rural Agricultural Work Experience
RAWEP	Rural Agricultural Work Experience Program
RCRC	Rapid Rural Community Response
RGCA	Rajiv Gandhi Centre for Aquaculture
RKVY	Rashtriya Krishi Vikas Yojana
RMS	Rabi Marketing Season
SAA	Seychelles Agricultural Agency
SAARC	South Asian Association for Regional Cooperation
SAC	Space Application Centre
SAU	State Agricultural University
SBIRI	Small Business Innovation Research Initiative
SCH	Single Cross Hybrid
SFAC	Small Farmers Agribusiness Consortium
SLCARP	Sri Lanka Council for Agricultural Research and Policy
SNP	Single Nucleotide Polymorphism
SOC	Soil Organic Carbon
SOP	Standard Operating Procedure
SPLAT	Specialized Pheromone and Lure Application Technology
SRI	System of Rice Intensification
SSD	Sub-surface drainage
SSS	Seed Support System
SST	Sea Surface Temperature
STCR	Soil Test Crop Response
TBI	Technology Business Incubation
TMIS	Training Management Information System
TMO	Technology Mission on Oilseeds
TMOP	Technology Mission on Oilseeds & Pulses
TNA	Training Need Assessment
TRIPS	Trade-Related Intellectual Property Rights
UCPH	University of Copenhagen
UN	United Nations
UN-CAPSA	United Nation's Centre for Alleviation of Poverty through Sustainable Agriculture

UNDP	United Nation Development Programme
UPAYA	Unleashing Potential in Agriculture for Young Agri-preneurs
USA	United States of America
USAID	United States Agency for International Development
USDA	United State Department of Agriculture
VATIC	Value Addition and Technology Incubation Centre in Agriculture
VCRM	Village Climate Resilience Management Committee
VHF	Vacuum Hermetic Fumigation
VNN	Viral Nervous Necrosis
WDCM	World Data Centre for Microorganisms
WFC	World Fish Centre
WFCC	World Federation for Culture Collections
WIPO	World Intellectual Property Organization
WSN	Wireless Sensor Networks
WTC-ER	Water Technology Center for Eastern Region

ACRONYMS

AAU	: Assam Agricultural University	DG	: Director-General
AI	: Artificial Insemination	DIPA	: Directorate of Information and Publications of Agriculture
AICRP	: All-India Co-ordinated Research Project	DRWA	: Directorate of Research on Women in Agriculture
AINP	: All-India Network Project	DU	: Deemed-to-be University
AKI	: Agricultural Knowledge Initiative	DWR	: Directorate of Wheat Research
ANGRAU	: Acharya NG Ranga Agricultural University	EIA	: Enzyme Immuno Assay
ARIC	: Agricultural Research Information Centre	ELISA	: Enzyme-linked Immunosorbent Assay
ARIS	: Agricultural Research Information System	EPN	: Entomopathogenic Nematode
ARS	: Agricultural Research Service	ETL	: Economic Threshold Level
ASRB	: Agricultural Scientists Recruitment Board	FAO	: Food and Agriculture Organization
AU	: Agricultural University	FMD	: Foot-and-Mouth Disease
AUTM	: Association of Universities for Technology Management	FSH	: Follicle-stimulating Hormone
BBF	: Broad Bed and Furrow	FYM	: Farmyard Manure
BE	: Budget Estimate	GBPUAT	: Govind Ballabh Pant University of Agriculture and Technology
BHU	: Banaras Hindu University	GCMS	: Gas Chromatography Mass Spectrometry
BPD	: Business Planning Development	GIS	: Geographical Information System
BTV	: Bluetongue Virus	GPA	: Global Plan of Action
CAU	: Central Agricultural University	GPS	: Global Positioning System
CAZRI	: Central Arid Zone Research Institute	GRD	: General Recommended Dose
CCSHAU	: Chaudhary Charan Singh Haryana Agricultural University	HAPA	: Hybridization-supplemented Apomixis Components Partitioning Approach
CGIAR	: Consultative Group on International Agricultural Research	HDPE	: High Density Polyethylene
CIAE	: Central Institute of Agricultural Engineering	HPTLC	: High Performance Thin Layer Chromatography
CIBA	: Central Institute of Brackishwater Aquaculture	HRD	: Human Resource Development
CICR	: Central Institute for Cotton Research	HTMA	: Hair Tissue Mineral Analysis
CIFA	: Central Institute of Freshwater Aquaculture	IARI	: Indian Agricultural Research Institute
CIFE	: Central Institute of Fisheries Education	IASRI	: Indian Agricultural Statistics Research Institute
CIFRI	: Central Inland Fisheries Research Institute	ICAR	: Indian Council of Agricultural Research
CIMMYT	: Centro International de Mejoramiento de Maize Trigo	ICARDA	: International Centre for Agricultural Research in Dry Areas
CIPHET	: Central Institute of Post-harvest Engineering and Technology	ICRISAT	: International Crops Research Institute for Semi-Arid Tropics
CIRCOT	: Central Institute for Research on Cotton Technology	ICT	: Information and Communication Technologies
CMFRI	: Central Marine Fisheries Research Institute	IFS	: Integrated Farming System
CMS	: Cytoplasmic Male Sterile	IGFRI	: Indian Grassland and Fodder Research Institute
CP	: Crude Protein	IGKVV	: Indira Gandhi Krishi Vishwa Vidyalaya
CPCRI	: Central Plantation Crops Research Institute	IIHR	: Indian Institute of Horticultural Research
CRIDA	: Central Research Institute for Dryland Agriculture	IINRG	: Indian Institute of Natural Resins and Gums
CRIJAF	: Central Research Institute for Jute and Allied Fibres	IISR	: Indian Institute of Sugarcane Research
CRRI	: Central Rice Research Institute	IPGRI	: International Plant Genetic Resources Institute
CTCRI	: Central Tuber Crops Research Institute	IPM	: Integrated Pest Management
CTMC	: Central Technology Management Committee	IPR	: Intellectual Property Right
CTRI	: Central Tobacco Research Institute	IRRI	: International Rice Research Institute
DARE	: Department of Agricultural Research and Education	IVDMD	: In-vitro Dry Matter Digestibility
DAS	: Days After Sowing	IVF	: In-vitro Fertilization
DBT	: Department of Biotechnology	IVRI	: Indian Veterinary Research Institute
DDG	: Deputy Director-General	JAU	: Junagarh Agricultural University
		JNKVV	: Jawaharlal Nehru Krishi Vishwa Vidyalaya
		LDPE	: Low Density Polyethylene
		MAP	: Modified Atmosphere Packaging
		MAS	: Molecular Marker-assisted Selection
		MNFB	: Multi-nutrient Feed Block
		MoU	: Memorandum of Understanding
		MPAUT	: Maharana Pratap University of



MR	: Agriculture and Technology	PPVFR	: Protection of Plant Varieties and Farmers' Right
MW	: Moderately Resistant	PTO	: Power Take Off
NA	: Molecular Weight	PVP	: Polyvinyl Pyrrolidone
NAARM	: Nutrient Agar	RAPD	: Random Amplified Polymorphic DNA
NAIP	: National Academy of Agricultural Research and Management	RAU	: Rajendra Agricultural University/ Rajasthan Agriculture University
NARC	: National Agricultural Innovation Project	RDF	: Recommended Dose of Fertilizer
NARD	: Nepal Agricultural Research Council	RDN	: Rumen Degradable Nitrogen
NARS	: National Agricultural Research Database	RE	: Revised Estimate
NBAGR	: National Agricultural Research System	RFLP	: Restricted Fragment Length Polymorphism
NBAIM	: National Bureau of Animal Genetic Resources	RH	: Relative Humidity
NBFGR	: National Bureau of Agriculturally Important Microorganisms	RTV	: Rice Tungro Virus
NBPGR	: National Bureau of Fish Genetic Resources	SAC	: Space Application Centre
NCAP	: National Bureau of Plant Genetic Resources	SAUs	: State Agricultural Universities
NDRI	: National Bureau of Sugarcane Breeding Institute	SBI	: Sugarcane Breeding Institute
NET	: National Centre for Agricultural Economics and Policy Planning	SCC	: Somatic Cell Count
NGOs	: National Dairy Research Institute	SHGs	: Self-help Groups
NHCP	: National Eligibility Test	SLTL	: Soil Loss Tolerance Limit
NIANP	: Non-Government Organizations	SNP	: Single Nucleotide Polymorphism
NIRJAFT	: National Herbarium of Cultivated Plants	SOC	: Soil Organic Carbon
NISAGENET	: National Institute of Animal Nutrition and Physiology	SRF	: Senior Research Fellowship
NISM	: National Institute of Research on Jute and Allied Fibre Technology	SRI	: System of Rice Intensification
NRC	: National Information System on Agricultural Education Network	SSD	: Super Saturated Designs
NSKE	: National Information Sharing Mechanism	SSNM	: Site-specific Nutrient Management
OBGs	: National Research Centre	SSP	: Single Superphosphate
OL	: Neem Seed Kernel Extract	SSRs	: Simple Sequence Repeats
OMP	: Other Backward Classes	SVVU	: Sri Venkateswara Veterinary University
OUAT	: Other Languages	TANUVAS	: Tamil Nadu University of Veterinary and Animal Sciences
PAGE	: Outer Membrane Protein	TDN	: Total Digestible Nutrient
PAU	: Orissa University of Agriculture and Technology	TLCV	: Tomato Leaf Curl Virus
PCR	: Polyacrylamide Gel Electrophoresis	TNAU	: Tamil Nadu Agricultural University
PD_ADMAS	: Punjab Agricultural University	TSS	: Total Soluble Solids/Sugars
PG	: Polymerase Chain Reaction	TVCSC	: Teaching Veterinary Clinical Service Complex
	: Project Directorate on Animal Disease Monitoring and Surveillance	UAS	: University of Agricultural Sciences
	: Post-graduate	UG	: Under-graduate
		UGC	: University Grants Commission
		UTM	: Uterine Milk Protein
		VAM	: Vesicular-arbuscular Mycorrhiza
		VPKAS	: Vivekananda Parvatiya Krishi Anusandhan Sansthan
		WBNV	: Watermelon Bud Necrosis Virus



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