

Biodata

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- 1. Date of Birth:** February 2, 1965
- 2. Areas of Specialization:** Climate Change, Soil Science
- 3. Work Experience:** 31 years

4. Education

Degree	Year	Class/Grade	University
BSc (Ag)	1986	1 st Class, OGPA 4.0/4.0	Banaras Hindu University, Varanasi, India
MSc	1988	1 st Class, OGPA 3.8/4.0	Indian Agricultural Research Institute, New Delhi
PhD	1992	1 st Class, OGPA 4.0/4.0	Indian Agricultural Research Institute, New Delhi

5. Post-doctorate Experience and Training

- 1) University of Essex, United Kingdom (1996-97).
- 2) Institute of Meteorology and Climate Research, Germany (2004-05).
- 3) Management Development Programme, NAARM, Hyderabad, India (2014).
- 4) Executive Development Programme, NAARM, Hyderabad, India (2016).
- 5) Advances in Soil Science for Maintenance of Soil Health, PAU, Ludhiana (1993).
- 6) GIS & Remote Sensing in Management of Land & Water Resources, IARI, New Delhi (1995).
- 7) Modelling Soil Fertility, IRRI, Philippines (1999).
- 8) Land use planning for mitigating GHG emission, IMK, Germany (2004).
- 9) Emission of greenhouse gases from soil, University of Essex, UK (1996).
- 10) Use of Isotopes and Radiations in Soil-Plant Relationships, IARI, New Delhi (1998).
- 11) Modelling Growth and Yield of Crops, IARI, New Delhi (2001).
- 12) Agricultural Research Project Management, NAARM, Hyderabad (1992).

6. Professional History

- 1) Secretary, DARE & Director General, ICAR (2022 onwards)
- 2) Director, ICAR-National Institute of Abiotic Stress Management, Maharashtra (2020-22).
- 3) Director, ICAR-National Rice Research Institute, Odisha (2016-20).
- 4) Principal Scientist, Indian Agricultural Research Institute (IARI), New Delhi (2009-16).
- 5) Professor, Discipline of Environmental Sciences, IARI (2013-16).
- 6) Co-Facilitator, Rice-Wheat Consortium, (IRRI)-India, New Delhi (2006-09).
- 7) Humboldt Fellow, Institute of Meteorology and Climate Research, Germany (2004-06)

- 8) Senior Scientist, IARI (2001-04), Scientist (Sr. Scale), IARI (1999-2001); Scientist, IARI (1992-99).
- 9) Visiting scientist IRRI, Philippines and CSIRO Land and Water, Australia.
- 10) Participated in more than 70 international symposia/conferences in 27 different countries.

7. Teaching and Student Guidance

- 1) Teaching and guiding MSc and PhD students since 1993 at IARI, New Delhi.
- 2) Teaching Environmental Sciences (Global Climate Change, Introduction to Environmental Pollution, Soil and Water Pollution, Greenhouse Gas Emission, Crop Modelling) courses for MSc and PhD.
- 3) Supervised 4 MSc and 3 PhD students at Indian Agricultural Research Institute, New Delhi.
- 4) Advisory Committee Member of 40 students in various Disciplines of Agricultural Sciences.
- 5) Designed course curriculum on Introduction to Environmental Sciences, Global Climate Change and Agriculture, Simulation Modelling, etc.

8. International Experience

- 1) Humboldt Fellow, Institute of Meteorology and Climate Research, Germany (2004-05).
- 2) Visiting Scientist, International Rice Research Institute, Philippines (1999 and 2001).
- 3) Visiting Scientist, CSIRO Land and Water, Griffith, Australia (2003).
- 4) BOYSCAST Fellow, University of Essex, United Kingdom (1996-97).
- 5) Co-Facilitator, Rice-Wheat Consortium, IRRI-India (2006-09).
- 6) Resource person, Haramaya University, Ethiopia (2017-18).
- 7) Participated in more than 75 international meetings and conferences in 30 countries.

9. Publications

- 1) Published more than 200 research papers, 50 review papers, 40 technical bulletins, 35 popular articles, 9 policy papers, 90 book chapters and 20 books.
- 2) h-index 75, i10-index 230 with more than 22,200 citations in international literature.
- 3) Identified among the top 2% of global scientists in agriculture by Stanford University, USA.
- 4) Ranked No. 365 in the world and No. 5 in India in Plant Science & Agronomy by Research.com.

10. Awards and Recognitions

• Fellowship of Academies

1. National Academy of Agricultural Sciences (NAAS), India (2007).
2. West Bengal Academy of Science and Technology, India (2013).
3. Indian National Science Academy (INSA), India (2014).
4. National Academy of Sciences, India (NASI) (2016).
5. Indian Climate Congress, Bhubaneswar, Odisha (2018).

• International Awards and Recognitions

1. Alexander von Humboldt Fellowship of Germany (2004).
2. BOYSCAST Fellowship of Dept. of Science & Technology, Govt. of India (1996).
3. Lead Author of the Inter-Governmental Panel on Climate Change (IPCC) 5th Assessment Report (2011-2014).
4. Lead Author, Refinement to the IPCC Guidelines for National Greenhouse Gas Inventories (2017-2019).
5. Reviewer, IPCC 6th Assessment Report (2022).

6. Coordinator for United Nations Framework Convention on Climate Change, Ministry of Agriculture and Farmers Welfare, Govt. of India (2011-2015).
 7. Outstanding Administrative Support Award, IRRI, Philippines (2007).
- **National Awards and Recognitions**
 1. Doctor of Science (*Honoris Causa*) by Uttar Banga Krishi Viswavidyalaya, West Bengal (2023).
 2. Dr. D. Sundaresan Memorial Award, ICAR-National Dairy Research Institute, Haryana (2023).
 3. Dr. NS Randhawa Memorial Award, NAAS (2021).
 4. Dr. RV Tamhane Memorial Lecture Award of by the Indian Society of Soil Science (2021).
 5. Rafi Ahmed Kidwai Award of Indian Council of Agricultural Research (2019).
 6. Platinum Jubilee Award Lecture of ISCA (2018).
 7. Krushi Gourav Award, Orissa Krushak Samaj (2017).
 8. Silver Jubilee Commemoration Medal of INSA (2016).
 9. Society of Agricultural Professional Excellence Award (2016).
 10. Prof. SK Mukherjee Commemoration Award of ISCA (2012).
 11. Recognition Award of NAAS, India (2011).
 12. Dr. BC Deb Memorial Award of ISCA (2001).
 13. Golden Jubilee Young Scientist Award, Indian Society of Soil Science (1998).
 14. Young Scientist Award of Indian Science Congress Association (1994).
 - **President/Convener of Academies/Professional Societies**
 1. President of National Academy of Agricultural Sciences, New Delhi (2023 onwards)
 2. President of Association of Rice Research Workers, Cuttack, Odisha (2018-21).
 3. Executive President of Society for Conservation of Nature, New Delhi (2016-22).
 4. President of Agriculture and Forestry Sciences Section of ISCA (2007).
 5. Convener, Pune Chapter, National Academy of Agricultural Sciences, New Delhi (2021).
 6. Treasurer, National Academy of Agricultural Sciences (NAAS), 2010-2014.
 7. Vice-President, Society for Advancement of Rice Research, Hyderabad (2017-21).
 - **Editor of Journals**
 1. Indian Journal of Agricultural Sciences, ICAR, New Delhi (2018 onwards).
 2. Agricultural Research, NAAS, New Delhi (2017 onwards).
 3. Indian Journal of Agronomy, Indian Society of Agronomy (2011-17).
 4. Greenhouse gases: Science and Technology, John Wiley Publication (2010-15).
 5. Current Advances in Agricultural Sciences, Kanpur (2007-14).
 - **Chairman of the Academic and Policy-framing Bodies**
 1. International Water Management Institute-ICAR Steering Committee (2022 onwards).
 2. Research Council of CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow (2022 onwards).
 3. Steering Committee of the GEF project: Mainstreaming agricultural biodiversity conservation and utilization in Agri. Sector (2022 onwards).
 4. Promotion of Agricultural Mechanization for In-Situ Management of Crop Residue in the States of Punjab, Haryana, UP and NCT Delhi (2022 onwards).
 5. Project Management Committee on NAHEP, ICAR (2022 onwards).
 6. Scientific Committee on Fish and Fisheries Products, Food Safety and Standards Authority of India, M/o Health & Family Welfare), New Delhi, (2022 onwards).

7. Food and Agriculture Division Council, Bureau of Indian Standards, M/o Consumer Affairs, Food & Public Distribution, New Delhi, (2022 onwards).
 8. Research Council (RC) CSIR Laboratory, CSIR HQ, Anusandhan Bhawan, New Delhi, (2022 onwards).
 9. FSSIA regarding fixation of MRLs of pesticides and standards for Basmati Rice, MoAFW, Krishi Bhawan, New Delhi (2022 onwards).
 10. National Policy on Marine Fisheries, Dept. of Animal Husbandry, Dairying & Fisheries, New Delhi, (2022 onwards).
 11. Chairman, Global Technology Watch Group, TIFAC, DST, New Delhi (2018-2021).
 12. Chairman, Controlled Release Fertilizer in India, TIFAC, DST, New Delhi (2020-21).
- **Recognition in teaching and as resource person**
 1. Certificate for Excellence in Teaching from Indian Agricultural Research Institute, New Delhi in 2000, 2001 and 2003.
 2. Delivered keynote and lead talks in more than 150 national and international conferences.
 - **Best paper award**
 1. Best paper award by Fertilizer Association of India, New Delhi (2019).
 2. Best paper award of the Third International Agronomy Congress (2012).
 3. Best paper award of the Indian Science Congress Association (2001).
 - **Member of Academies/Professional Societies**
 1. Indian National Science Academy, New Delhi
 2. National Academy of Sciences, India; Allahabad
 3. National Academy of Agricultural Sciences, New Delhi
 4. Indian Science Congress Association, Kolkata
 5. West Bengal Academy of Science and Technology, Kolkata
 6. Indian Society of Soil Science, New Delhi
 7. Indian Society of Agronomy, New Delhi
 8. Society for Agricultural Professionals, Kanpur
 9. Indian Climate Congress, Bhubaneswar
 10. Association of Rice Research Workers, Cuttack
 11. Society for Conservation of Nature, New Delhi
 12. Society for Advancement of Rice Research, Hyderabad