

# Profile

**Dr. Pradip Dey**



Designation: Principal Scientist &  
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AICRP (STCR)

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## Research specialization:

- Developed STCR-IPNS based fertilizer prescription equations for drip fertigation; enumeration of nutrient acquisition, crop yield and establishment of soil quality index in different cropping system.
- Developed GPS/GIS-based soil fertility maps and nutrient plan of 173 districts of India.
- Developed a rapid soil test kit can analyse 12 parameters including major and micronutrients and provide fertilizer recommendation for different crops based on soil test.
- Root pruning-cum-fertiliser application, leaf nutrient standard, in-situ moisture conservation through half-moon terracing and mulching, changes in soil properties in multi-tier fruit based cropping system model including horti-silvi-pastoral and agroforestry models.
- Enumeration of spatial variability of salt affected soils and developed EMI map for assessment of salinity in watershed as well agrotechnology transfer in rainfed region
- Carbon sequestration and conservation agriculture in land-use systems under reclaimed sodic soil.
- Mechanism and amelioration of lime induced iron chlorosis in sugarcane ratoon.
- Developed conjoint water and nutrient management strategies for sugarcane agro-ecosystems.

## Professional Experience:

Designation	Level/ Pay Scale with GP	Major discipline	Nature of work	Organization/ Institute	From	To
I/C Project Coordinator (STCR)	Level 14 199600	Soil Science	Research/ Research Management	ICAR-Indian Institute of Soil Science, Bhopal	01/02/ 2017	Continue
Project Coordinator (STCR)	37400-67000 10000	Soil Science	Research/ Research Management	ICAR-IISS, Bhopal	01/02/ 2012	31/01/ 2017
Principal Scientist	37400-67000 10000	Soil Science	Research	ICAR-CSSRI, Karnal	31/12/ 2007	31/01/ 2012
Principal Scientist	37400-67000 10000	Soil Science	Research	ICAR-RCER, Ranchi	30/10/ 2007	30/12/ 2007
Senior Scientist	12000-18300	Soil Science	Research	ICAR-RCER, Ranchi	30/10/ 1999	29/10/ 2007
Scientist (SS)	10000-15200	Soil Science	Research	ICAR-IISR, Lucknow	03/06/ 1998	29/10/ 1999
Scientist*	2200-4000	Soil Science	Research	ICAR-IISR, Lucknow	03/06/ 1993	02/06/ 1998

\*Period include time spent in training at ICAR-NAARM, Hyderabad and SMS training at ICAR-CSSRI, Karnal

## Awards and Honours:

Gold Medal for M.Sc. (1990) and Ph.D. (1994), IARI, New Delhi; Fellow, West Bengal Academy of Science and Technology, Kolkata (2018); Fellow of Indian Society of Soil Salinity and Water Quality, Karnal (2014); Fellow of Horticultural Society of India, New Delhi (2018); 12<sup>th</sup> International Congress Commemoration Award of Indian Society of Soil Science (2016); 7<sup>th</sup> Dr. B. Ramamoorthy Memorial Lecture by TNAU, Coimbatore (2018); Dr Banyal Memorial Award, Society for Advancement of Human and Nature (2017). Peer recognitions include Founder Editor of Journal of Soil Salinity and Water Quality (ISSN 0976-0806); Vice President, Indian Society of Agro Physics, New Delhi (2014-2016); Vice President, Indian Society of Soil Science, New Delhi (2020-2021); Founder Honourary Secretary of Indian Society of Soil Salinity & Water Quality; Biome Expert Group Lead, ESP (IUCN), The Netherlands (2016); reviewer of Biotechnology & Biological Sciences Research Council, UK; SAARC Focal Point Expert of IPNS (2017); Soil Science Expert of Knowledge Exchange programme in soil conservation and rehabilitation for study visit to Kenya sponsored by GIZ, Germany (2017); Expert, *Global Soil Week-2017*, Berlin, Germany. Recipient of Social Innovator Award (2010) by the World Bank (UN).

## Top Ten publications:

1. Dey, P. and Yadav, D.V. (1996). Chlorophyll scan, yield and juice quality of chlorotic sugarcane ratoon as influenced by foliar application of ferrous sulphate. *Indian Journal of Sugarcane Technology*, 11: 131-135.
2. Dey, P. and Jain, J.M. (1997). Mineralization and nitrification in soil amended with urea and enriched green manures in submerged soil system. *Journal of the Indian Society of Soil Science*, 45 (2): 249-255.
3. Dey, P. and Jain, J.M. (2000). Evaluation of urea enriched green manures for their efficiency to sustain the productivity of rice-wheat system. *Journal of the Indian Society of Soil Science*, 48(1): 102-107.
4. Dey, P., Yadav, D.V. and Rai, R.K. (2003). Translocation of sulphur in chlorotic and non-chlorotic plants of sugarcane ratoon. *Indian Journal of Plant Physiology*. 8 (4): 408-410.
5. Dey, P., Rai, Mathura, Kumar, S., Nath, Vishal, Das, Bikash and Reddy, N.N. (2005). Effect of biofertiliser on physico-chemical characteristics of guava (*Psidium guajava*) fruit. *Indian Journal of Agricultural Sciences*, 75 (2): 95-96.
6. Dey, P., Rai, Mathura, Gangopadhyay, K.K., Das, Bikash, Nath, Vishal and Reddy, N.N. (2010). Effect of phosphorus on growth, yield, use efficiency and leaf nutrient composition of litchi grown on Alfisol. *Indian Journal of Horticulture*, 67 (3): 394-396.
7. Dey, P. and Sarkar, A.K. (2011). Revisiting indigenous farming knowledge of Jharkhand (India) for conservation of natural resources and combating climate change. *Indian Journal of Traditional Knowledge*, 10 (1): 71-79.
8. Dey, P. and Jain, J.M. (2013). Prediction of yield and nitrogen uptake of wheat from net nitrogen balance after rice in rice-wheat cropping system. *Communications in Soil Science and Plant Analysis*, 44 (15): 2288-2298.
9. Dey, P., Karwariya, S. and Bhogal, N.S. (2017). Spatial Variability Analysis of Soil Properties Using Geospatial Technique in Katni District of Madhya Pradesh, India. *International Journal of Plant & Soil Science*, 17 (3): 1-13.
10. Dey, P. (2019). Invigorating Soil Health Card Scheme: Critical introspection and policy dimension. *Agricultural Research Journal*, 56 (4): 786-788.