

Brief Biodata of Dr. Manik Chandra Kundu (as on 26.08.2025)

Name : Dr. MANIK CHANDRA KUNDU
Present Designation : Assistant Professor of Soil Science
Date of Birth : January 03, 1980
Area of Specialization : Soil Chemistry, Soil Fertility and Plant Nutrition
Department : Dept. of Soil Science and Agricultural Chemistry
Palli Siksha Bhavana (Institute of Agriculture)
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Educational Qualification:

- B. Sc. (Agriculture) Hons., Bidhan Chandra Krishi Viswavidyalaya (BCKV), 2002 (80.50%)
- M. Sc. (Agriculture) in Agricultural Chemistry and Soil Science, BCKV, 2004 (89.30%).
- Ph. D. (Agriculture) in Agricultural Chemistry and Soil Science, BCKV, 2008 (86.20%). PhD Thesis Title: "Studies on nitrate loading in groundwater due to intensive cultivation in Hooghly district of West Bengal"
- National Eligibility Test (NET) in Soil Science - Soil Chemistry/ Fertility/ Microbiology, Agricultural Scientists Recruitment Board (ASRB), New Delhi, 2006.

Employment History

Period	Position	Name of the Employer	Place of posting
August 14, 2008 to January 31, 2013.	Assistant Agricultural Chemist under West Bengal Agricultural Service (Research)	Governor of West Bengal	Water Management Research Station, Ranaghat, Nadia.
February 01, 2013 to continuing	Assistant Professor of Soil Science	Registrar, Visva-Bharati	Dept. of Soil Science and Agricultural Chemistry (Erstwhile Dept. of ASEPAN), PSB

Research Achievements/Recognitions/Awards:

- Ph.D. Thesis was adjudged the Best from the East Zone and nominated at National Level for the final round contest of the Indian Society of Soil Science (ISSS) Best Doctoral Presentation Award 2008.
- Received Commendation Certificate in final round contest of ISSS Best Doctoral Presentation Award 2008, Bangalore.
- Selected on rigorous screening for outstanding research contributions to the National Level for the ISCA's Young Scientist Award 2008 from the Agriculture and Forestry Sciences Section.
- Received **Best Poster Presentation Award** in the Platinum Jubilee Symposium of the ISSS held at New Delhi held during December 22-25, 2009.

Research Areas/Interests: Soil Physics, Soil Chemistry, Soil Fertility, Plant Nutrition, Nutrient Management, Carbon Sequestration, Soil Carbon Dynamics, Soil Health, Water Pollution, Soil Acidity, Soil Carbon Dynamics, Soil Erosion, Environmental Soil Science

Teaching Experiences: ~ 12 ½ years Actively engaged in teaching various courses of the Department of Soil Science and Agricultural Chemistry to B. Sc (Ag.), M. Sc (Ag.) and Ph.D. students of the Institute of Agriculture, Visva-Bharati.

Research Experiences: ~ 20 years

- Worked as SRF in the ICAR funded network project on Nitrate Pollution in Groundwater from April 1, 2005 to May 31, 2008 as well as PhD scholar in BCKV, West Bengal
- Conducted research work as Assistant Agricultural Chemist in Water Management Research Station, Ranaghat, Nadia, West Bengal from August 14, 2008 to January 31, 2013.
- Presently supervising M.Sc. (Ag) and Ph.D. students of the Dept. of Soil Sci. & Agril. Chem for thesis work since 01.02.2013 to till date.

No. of M.Sc. (Ag.) and Ph.D. students supervised:

M.Sc. (Ag.) in Soil Sci. & Agril. Chem : Awarded = 20; Enrolled: 3;
Ph.D. in Agriculture (Soil Sci. & Agril. Chem : Awarded = 5; Enrolled = 3

Extension Activities:

Actively participating in different extension programmes of the Institute as Resource Person in Krishi Darsan programme of DD Santiniketan, Farmers-Scientist Meets, Krishi Mela etc. with special reference to Agriculture and Allied Sciences.

Refresher/ Orientation/Training Courses Attended: 15

Membership of Societies & Academic Distinction/National & International Exposures:

- Life member of the following societies:
 - (i) Indian Science Congress Association, Kolkata; (ii) Crop and Weed Science Society, BCKV (iii) Society for Fertilizers and Environment, Kolkata (iv) Indian Society of Coastal Agricultural Research, Canning Town (v) Society of Bio-resource, Environment and Agricultural Research, Sriniketan (vi) Society for Advancement of Agricultural Innovations, Tripura
- Member of 'The Indian Society of Soil Science (ISSS)'
- Member, Board of Studies of Dept. of Soil Science and Agricultural Chemistry & Dept of Environmental Science, VB
- Member, Joint Board of Studies, Palli Siksha Bhavana
- Member of the Anti-Ragging Squad of the Palli Siksha Bhavana
- Member, Departmental Research Committee (DRC) & Research Advisory Committee (RAC) of the Dept. of SSAC
- Member, Advisory Committee of PG students of the Dept. of SSAC, Dept. of Agronomy, Dept. of Hort. & Post Harvest Technology
- Member, Committee for "Bioconsortium for vermicomposting using fallen leaves in Visva-Bharati campus"
- Acting as External Examiner and Paper Setter of BCKV, Nadia, West Bengal
- Acting as External Examiner for evaluation of M.Sc. (Ag.) Thesis in Agril. Chem. & Soil Sci. of BCKV.
- Acting as Ph.D. Co-Ordinator of the Dept. of Soil Sci. & Agril. Chem, PSB, VB
- Acting as Assistant Secretary, Indian Society of Soil Science Sriniketan Chapter, PSB, VB.
- Acting as Reviewer of the International Journals like Environment, Monitoring and Assessment (Springer), Journal of Soil Science and Plant Nutrition (Springer) and others.

RESEARCH PUBLICATIONS:

Published in peer reviewed Journal: Total = 74; NAAS rating (2025) > 10.0 = 5; NAAS rating (2025) 6.0-10.0 = 15; NAAS rating (2025) 5.0-6.0 = 19; NAAS rating (2025) < 5.0 = 9; Peer reviewed but without NAAS Rating = 26.

Published as Book chapters: Total = 22

Presented in National/International Seminar and published as Abstract: Total = 103

Google Scholar Citations all (as on 26.08.2025) = 1512; Since 2020 = 858; h-index all = 19; h-index since 2020 = 16; i10 index all = 27; i10 index since 2020 = 23 (<https://scholar.google.co.in/citations?user=uGodDDAAAAAJ&hl=en>)

List of a few best research papers published in peer-reviewed International Journals:

1. Nayak, B. K., Chatterjee, D., Paul, R., Das, S. R., Adak, T., Mandal, N., Drewar, J., Pradhan, A., **Kundu, M. C.**, Pal, A. K., Santra, G. H., Sahoo, S., Datta, S. C., Sutton, M. A., Nayak, A. K., & Pathak, H. (2025). Review of Nano-clay Polymer Composites for Controlled Nitrogen Release: Prospects and Limitations. *Agricultural Research*. <https://doi.org/10.1007/s40003-025-00848-5>. [ISSN: 2249-720X (Print), 2249-7218 (Online)]. [JIF (Thomson Reuters) =1.10; NAAS Rating =7.40]
2. Sahu, M., **Kundu, M. C.** & Mohammed Nisab, C. P. (2024). Assessing suitability of different extractants for estimating plant available boron in lateritic soils (Alfisols). *Communications in Soil Science and Plant Analysis*, DOI:10.1080/00103624.2023.2295269. [ISSN: 0010-3624 (Print), 1532-2416 (Online)]. [JIF (Thomson Reuters) =1.80; NAAS Rating =7.30]
3. Manna, K., **Kundu, M. C.**, Saha, B., Ghosh, G. K. (2023). Residual impact of nonwoven jute agro-textile mulch on soil health and productivity of maize (*Zea mays* L.) in lateritic soil. *Biomass Conversion and Biorefinery* 1-11. <https://doi.org/10.1007/s13399-023-04437-w>. [ISSN: 2190-6815 (Print) 2190-6823 (Online)] [JIF (Thomson Reuters) =4.10; NAAS Rating =9.50]
4. Das, S. K., Ghosh, G. K., Avasthe, R., **Kundu, M. C.**, Choudhury, B. U., Baruah, K., & Lama, A. (2023). Innovative biochar and organic manure co-composting technology for yield maximization in maize-black gram cropping system. *Biomass Conversion and Biorefinery* 13: 7797–7809. <https://doi.org/10.1007/s13399-021-01519-5>. [ISSN: 2190-6815 (Print) 2190-6823 (Online)] [JIF (Thomson Reuters) =4.10; NAAS Rating =9.50]
5. Das, S. K., Ghosh, G. K., Avasthe, R., Choudhury, B. U., Mishra, V. K., **Kundu, M. C.**, Roy, A., Mondal, T., Lama, A., Dhakre, D. S. (2023). Organic nutrient sources and biochar technology on microbial biomass carbon and soil enzyme activity in maize-black gram cropping system. *Biomass Conversion and Biorefinery* 13: 9277–9287. <https://doi.org/10.1007/s13399-021-01625-4> [ISSN: 2190-6815 (Print) 2190-6823 (Online)] [JIF (Thomson Reuters) =4.10; NAAS Rating =9.50]
6. Kashiwar, S. R., **Kundu, M. C.** & Dongarwar, U. R. (2022). Soil erosion estimation of Bhandara region of Maharashtra, India, by integrated use of RUSLE, remote sensing, and GIS. *Natural Hazards*. 110 (2): 937–959. <https://doi.org/10.1007/s11069-021-04974-5>. (Electronic ISSN: 1573-0840; Print ISSN: 0921-030X) [JIF (Thomson Reuters) =3.70; NAAS Rating =9.30]
7. Basak, N., Mandal, B., Datta, A., **Kundu, M. C.**, Rai, A. K., Basak, P., & Mitran, T. (2021). Stock and stability of organic carbon in soils under major agro-ecological zones and cropping systems of sub-tropical India. *Agriculture, Ecosystems & Environment*, 312:107317. <https://doi.org/10.1016/j.agee.2021.107317>. [ISSN: 0167-8809] [JIF (Thomson Reuters) =6.40; NAAS Rating =12.00]
8. Meetei, T. T., **Kundu, M. C.**, & Devi, Y. B. (2020). Long-term effect of rice-based cropping systems on pools of soil organic carbon in farmer's field in hilly agroecosystem of Manipur, India. *Environmental Monitoring and Assessment*, 192(4), 1-17. <https://doi.org/10.1007/s10661-020-8165-x>. [P-ISSN: 0167-6369, E-ISSN: 1573-2959] (JIF (Thomson Reuters) =3.00; NAAS Rating =8.90]
9. Manna, K., **Kundu, M. C.**, Saha, B., & Ghosh, G. K. (2018). Effect of nonwoven jute agrotexile mulch on soil health and productivity of broccoli (*Brassica oleracea* L.) in lateritic soil. *Environmental Monitoring and Assessment*. 190(82):1-10 <https://doi.org/10.1007/s10661-017-6452-y>. [ISSN: 0167-6369 (Print) 1573-2959 (Online)] [JIF (Thomson Reuters) =3.00; NAAS Rating =8.90]
10. Bhat, J. A., **Kundu, M. C.**, Mandal, B. & Hazra, G. C. (2017). Nature of acidity in Alfisols, Entisols and Inceptisols in relation to soil properties. *Communications in Soil Science and Plant Analysis*, 48 (4), 395-404. <https://doi.org/10.1080/00103624.2016.1254231>. [ISSN: 0010-3624 (Print), 1532-2416 (Online)]. [JIF (Thomson Reuters) =1.80; NAAS Rating =7.30]
11. Bhat, J. A., **Kundu, M. C.**, Hazra, G. C., & Mandal, B. (2010). Rehabilitating acid soils for increasing crop productivity through low-cost liming material. *Science of the Total Environment*, 408, 4346-4353. [ISSN: 0048-9697 (Print), 1879-1026 (Online)]. [JIF (Thomson Reuters) = 8.00; NAAS Rating =14.20]
12. **Kundu, M. C.**, & Mandal, B. (2010). Fluoride concentration in groundwater of North 24-Paraganas district of West Bengal, India. *Fluoride*, 43(2), 160-164. [ISSN: 0015-4725 (Print)]. [JIF (Thomson Reuters) =0.60; NAAS Rating =6.70]
13. **Kundu, M. C.**, Mandal, B. (2009). Nitrate enrichment in groundwater from long-term intensive agriculture: its mechanistic pathways and prediction through modeling. *Environmental Science & Technology*, 43, 5837-5843. (American Chemical Society). [ISSN: 0013-936X (Print); 1520-5851 (Online)] [JIF (Thomson Reuters) =11.30; NAAS Rating =16.80]
14. **Kundu, M. C.**, Mandal, B., & Hazra, G. C. (2009). Nitrate and fluoride contamination in groundwater of an intensively managed agroecosystem: a functional relationship. *Science of the Total Environment*, 407, 2771-2782. [ISSN: 0048-9697 (Print); 1879-1026 (Online)] [JIF (Thomson Reuters) =8.00; NAAS Rating =14.20]
15. **Kundu, M. C.**, & Mandal, B. (2009). Agricultural activities influence nitrate and fluoride contamination in drinking groundwater of an intensively cultivated district in India. *Water, Air, and Soil Pollution*, 198, 243–252. [ISSN: 0049-6979 (Print), 1573-2932 (Online)] [JIF (Thomson Reuters) =3.00; NAAS Rating =9.80]
16. **Kundu, M. C.**, & Mandal, B. (2009). Assessment of potential hazards of fluoride contamination in drinking groundwater of an intensively cultivated district in West Bengal, India. *Environmental Monitoring and Assessment*, 152, 97–103. [ISSN: 0167-6369 (Print), 1573-2959 (Online)]. [JIF (Thomson Reuters) =3.00; NAAS Rating =8.90]
17. Mandal, B., Majumder, B., Adhya, T. K., Bandyopadhyay, P. K., Gangopadhyay, A., Kundu, S., Sarkar, D., **Kundu, M. C.**, Gupta Choudhury, S., Hazra, G. C., Samantaray, R. N., & Mishra, A. K. (2008). The potential of double-cropped rice ecology to conserve organic carbon under subtropical climate. *Global Change Biology*, 14, 2139-2151. [ISSN: 1354-1013 (Print); 1365-2486 (Online)]. [JIF (Thomson Reuters) =12.00; NAAS Rating =16.80]
18. Sarkar, D., Mandal, B., **Kundu, M. C.**, & Bhat, J. A. (2008). Soil properties influence distribution of extractable boron in soil profile. *Communications in Soil Science and Plant Analysis*, 39, 2319-2332. [ISSN: 0010-3624 (Print), 1532-2416 (Online)]. [JIF (Thomson Reuters) =1.80; NAAS Rating =7.30]
19. **Kundu, M. C.**, Mandal, B., & Sarkar, D. (2008). Assessment of the potential hazards of nitrate contamination in surface and groundwater in a heavily fertilized and intensively cultivated district of India. *Environmental Monitoring and Assessment*, 146, 183–189. [ISSN: 0167-6369 (Print), 1573-2959 (Online)] [JIF (Thomson Reuters) =3.00; NAAS Rating =8.90]
20. Sarkar, D., Mandal, B., & **Kundu, M. C.** (2007). Increasing use efficiency of boron fertilisers by rescheduling the time and methods of application for crops in India. *Plant and Soil*, 301, 77-85. [ISSN: 0032-079X (Print), 1573-5036 (Online)]. [JCR: Sci International =4.10; NAAS Rating =9.90]