Name **Dr. Ruma Das**

Date of birth 24/10/1987

Designation Senior Scientist

Qualification Ph.D

Email id rumadas13@gmail.com; ruma.das@icar.org.in

Educational Qualifications

- Ph.D (Soil Science), Bidhan Chandra Krishi Viswavidyalaya (2015);
- M.Sc (Soil Science), Chandra KrishiViswavidyalaya (2011);
- B.Sc. Uttar Banga Krishi Viswavidyalaya (2009)

Professional Experience

- Senior Scientist at ICAR-NBSS&LUP, RC Kolkata from 1/5/2024 to till date
- Scientist (Sr. scale) at ICAR-NBSS&LUP, RC Kolkata from 1/5/2022 to till date
- Scientist (Sr. scale) at ICAR-IARI New Delhi from 1/4/2019 to 30/4/2022.
- Scientist at ICAR-IARI New Delhi from 1/4/2015 to 31/3/2019
- Scientist at ICAR-NAARM, Hyderabad from 1/1/2015 to 1/3/ 2015

Research Areas

- Clay-humus stability and carbon sequestration
- Interaction of clay with different nutrients and heavy metals
- Chemistry and behaviour of boron and other micronutrients

International Experience - Nil

Awards

- Best oral presentation Award in International conference on climate change, biodiversity and sustainable agriculture (ICCBSA-2018), Dec 13-16, 2018 at Assam Agricultural University, Jorhat 785013, Assam, India

Honours/Recognitions

Ten Best Research Papers along with NAAS Rating-2026

SNo	Publication	NAAS rating
1	Ruma Das, T.J. Purakayastha, Debarup Das, Nayan Ahmed, Rahul Kumar, SunandaBiswas, S.S. Walia, Rohitashav Singh, V.K. Shukla, M.S.Yadava, N. Ravisankar, S.C. Datta.2019, . Long-term fertilization and manuring with different organics alter stability of carbon incolloidal organo-mineral fraction in soils of varying clay mineralogy. Science of the Total Environment 684	13.96
2	Das R., Mandal, B., Sarkar, D., Pradhan, A.K., Datta, A.,Padhan, D., Seth, A., Kumar, R., De, N., Mishra, V.N.,Polara, K.B., Sharma, S., Thakur, N.P., Karchoo, D., Ray, M., Sharma, A., Patel, K.P., Garnayak, L.M.,Narkhede, W.N.2019, Boron availability in soils and its nutrition of crops under long-term fertility experiments in India Geoderma, 351-116-129.	12.11

3	Das A., Purakayastha T.J., Ahmed N., Das R., *et al.* (2023). Influence of clay mineralogy on soil organic carbon stabilization under tropical climate, India. *Journal of Soil Science and Plant Nutrition*, 23(1), 1003–1018.	10.9
4	Das R., Kumar R., Sarkar D., *et al.* (2023). Boron fractions and its availability in soils of the Indo-Gangetic Plains. *Catena*, 222, 106877.	13.4
5	Yadav R.K., Purakayastha T.J., Das R., Khan A. (2023). Impact of long-term manuring and cropping system on stability of humus associated with clay-organic complex. *Archives of Agronomy and Soil Science*, 69(12), 2356–2369.	10.8
6	Yadav R.K., Purakayastha T.J., Bhaduri D., Das R., *et al.* (2024). Development of unique soil organic carbon stability index under influence of integrated nutrient management in four major soil orders of India. *Journal of Environmental Management*, 360, 121208.	13.8
7	Das A., Purakayastha T.J., Ahmed N., Bhaduri D., Das R., Biswas S. (2024). Imprint of clay mineralogy, sesquioxides, and crop residue addition for evaluation of soil organic carbon stability and associated microbial activity in dominant soil orders of Indian subcontinent. *Environmental Geochemistry and Health*, 46(3), 73.	9.8
8	Tasung A., Ahmed N., Das R., *et al.* (2023). Effect of land use system and altitude on carbon stability in naturally occurring clay-organic complex in soils of Arunachal Pradesh in the Eastern Himalaya, India. *Archives of Agronomy and Soil Science*, 69(15), 3405–3421.	8.8
9	Deepak, Das R., Golui D., *et al.* (2025). Adsorption-desorption behaviour of arsenic on naturally occurring clay-organic complexes in an Alfisol and Inceptisol. *Environmental Sustainability*, 8(4), 715–729.	≈8.6
10	Kumar P., Das R., Sarkar D., *et al.* (2026). Long-term manuring influences boron availability in an Inceptisol under rice–wheat cropping system. *Nutrient Cycling in Agroecosystems*, 132(3), 40.	8.7
11	Reza S.K., Das R., Hati K.M., Chattaraj S., Daripa A., Talukdar S., Rahman F.H. & Ray S.K. (2026). Is cinchona (Cinchona sp.) a sustainable land use practice in the Eastern Himalayas of India? A comparative study with other land uses in relation to soil properties and carbon indices. Environmental Sustainability, 1–14.	≈8.6

Total Publications (Peer-reviewed journals only): 43

International:35

National:8

Research Gate link: https://www.researchgate.net/profile/Ruma-Das-3

Google scholar link:*https://scholar.google.com/citations?user=h5zQB4kAAAAJ&hl=en*