

# RESUME

**NAME:** DR. RAMEN KUMAR KOLE

**DESIGNATION:** Professor

**CONTACTS:**

**1. OFFICIAL ADDRESS FOR CORRESPONDENCE:**

Department of Agricultural Chemicals,  
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**5. GOOGLE SCHOLAR PROFILE:**

<https://scholar.google.com/citations?hl=en&user=C-52hIQAAAAJ>

**6. RESEARCHGATE PROFILE:** <https://www.researchgate.net/profile/Ramen-Kole>

**7. DATE OF BIRTH:** 04 / 01 / 1962

**8. DATE OF JOINING TO THE UNIVERSITY:** 20 / 01 / 1997

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**9. ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph. D. (Agriculture) in Agricultural Chemistry & Soil Science	Bidhan Chandra Krishi Viswavidyalaya	1993
MASTER'S	M. Sc. (Agriculture) in Agricultural Chemistry & Soil Science	Bidhan Chandra Krishi Viswavidyalaya	1986
BACHELOR'S	B. Sc. (Agriculture) Hons.	Bidhan Chandra Krishi Viswavidyalaya	1984

**10. EMPLOYMENT HISTORY: (Starting from present position)**

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Professor	Bidhan Chandra Krishi Viswavidyalaya	20.01.2012	Continuing
Associate Professor/ Reader	Bidhan Chandra Krishi Viswavidyalaya	20.01.2006	19.01.2012
Lecturer	Bidhan Chandra Krishi Viswavidyalaya	20.01.1997	19.01.2006

**11. ADMINISTRATIVE POST(S)/ RESPONSIBILITY(IES) (IF ANY)**

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1.	Head, Department of Agricultural Chemicals, BCKV	04.06.2008	05.07.2012
2.	Special Officer (Development), BCKV	11.12.2012	20.05.2015
3.	Head, Department of Agricultural Chemicals, BCKV	23.05.2015	29.05.2019
4.	Head, Department of Agricultural Chemicals, BCKV	30.05.2023	Continuing

**12. AREA OF RESEARCH : (Bulleted list)**

- Pesticide Chemistry;
- Pesticide Residue Analysis;
- Pesticide Formulation
- Herbal Pesticides
- Food and Water Quality;
- Ecotoxicology

**13. COURSES ASSOCIATED WITH:**

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
<b>UNDER GRADUATE</b>	ACH - 208	Crop Protection Chemicals & Their Application	1 + 1
	EC - 262	Chemistry of Pesticides	2 + 1
	ELP - 451	Production of Bio-agents and Botanical Pesticides	0 + 10
<b>POST GRADUATE</b>	CC - 502	Basic Concepts in Laboratory Techniques	0 + 1
	AC - 501	Introduction to Agrochemicals	2 + 0
	AC - 502	Chemical Laboratory Techniques	1 + 2
	AC - 506	Agrochemicals for Insect, Mite and Termite Management	2 + 1
	AC - 509	Chromatographic and Spectroscopic Techniques	2 + 1
	AC - 510	Pesticide Residue Chemistry	2 + 1
<b>Ph. D.</b>	AC - 601	Agrochemical Formulation Technology	2 + 2
	AC - 604	Pesticide Metabolism, Persistence, and Decontamination	2 + 1

**14. NUMBER OF STUDENTS SUPERVISED:****Master's: 15****Doctoral: 13**

## 15. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1.	Water Quality Monitoring of the River Ganga and Performance Monitoring of Sewage Treatment Plants in West Bengal.	National River Conservation Directorate, MoEF, Govt. of India.	Completed	PI
2.	Investigation on the persistence, degradation and effect of some agro-chemicals under field and/or laboratory conditions.	M/s. Indofil Chemicals Company	Completed	PI
3.	Promotion of Botanical Pesticides for Integrated Pest Management	RKVY Project, Agriculture Dept., Govt. of West Bengal	Completed	PI
4.	Residual fate of some agro-chemicals under various agro-ecological conditions	M/s. Indofil Industries Ltd.	Completed	PI
5.	Residue Analysis of Emamectin Benzoate 5% SG in/on Chilli and Okra and Pyrazo-sulfuran in Paddy	M/s. HPM Chemicals & Fertilizers Ltd.	Completed	PI
6.	Residue Analysis of Acetamiprid 20% SP in/on Cabbage and Rice	M/s. Coromandel Agrico Pvt. Ltd.	Completed	PI
7.	Buprofezin (25% SC) Residue in/on Rice and Chilli in West Bengal	M/s. Krish Biotech Research Pvt. Ltd.	Completed	PI
8.	Residue Analysis of Pretilachlor 50% EC in Transplanted Rice	M/s. Mahamaya Life Science Pvt. Ltd.	Completed	PI
9.	Residue Studies of Fipronil 5% SC on Rice and Sugarcane	M/s. Krishi Rasayan Export Pvt. Ltd.	Completed	PI
10.	Revenue Resource Fund of APEDA sponsored Export Testing Laboratory (ETL), BCKV	APEDA, Mins. of Commerce & Industry, Govt. of India	Completed	PI
11.	Residue Studies of Acephate 75 SP on Cotton, Rice and Safflower & Carbendazim 50 WP on Groundnut, Paddy & Grape	M/s. Krishi Rasayan Export Pvt. Ltd.	Completed	PI
12.	Harvest Residue and Persistence study of Paclobutrazole (23 SC) in Apple	M/s. Syngenta India Pvt. Ltd.	Completed	PI
13.	Long Term Residue Studies on Dow Agro Science Molecules	M/s. Dow Agro Science India Pvt. Ltd.	Completed	PI/ Co-PI
14.	Residue studies on Indofil Chemicals Molecules	M/s. Indofil Industries Ltd.	Completed	PI/ Co-PI
15.	Long Term Residue studies on Excel Molecules	M/s Excel Crop Care Ltd.	Completed	PI/ Co-PI
16.	Chloropyrifos 20% EC on Brinjal & Paddy and Dinotefuran 20% SG on Cotton & Paddy	M/s. Meghmani Organics Ltd.	Completed	PI
17.	Establishment of Testing & Training Center for Food and Water Quality	RIDF-XX Project, Agriculture Dept., Govt. of West Bengal	Completed	PI

## 16. CAPACITY BUILDING/ FACULTY DEVELOPMENT PROGRAMME ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Organized a Guest Lecture on “Plant Biostimulant Application for Crop Production” by Dr. P. Raha, Professor & Head, Dept. of Soil Sc. and Agril. Chemistry, Institute of Agricultural Sciences, Banaras Hindu University	1 day (16 <sup>th</sup> January, 2019)	Seminar Hall, Dept. of Agril. Chemicals, BCKV, Mohanpur	Convener
2.	Organized a Faculty Lecture on “Significance of pesticide residue monitoring to comply with the global food safety requirements” by Dr. K. Banerjee, FRSC, FNAAS, National Fellow, ICAR and Principal Scientist, ICAR: NRC for Grapes	1 day (16 <sup>th</sup> February, 2018)	D. R. Sarkar Hall, BCKV, Mohanpur	Convener
3.	Exposure training on HPLC, GLC, GCMS and LCMS instruments of Principal Scientist, ICAR-CIFE	10 days (November 21-30, 2016)	ETL, Dept. of Agril. Chemicals, BCKV	Course Director
4.	Professional Attachment Training of Newly Recruited ARS Scientist, ICAR-CIFRI	03 months (18.05.2016 to 18.08.2016)	ETL, Dept. of Agril. Chemicals, BCKV	Course Director
5.	Professional Attachment Training of Newly Recruited ARS Scientist, ICAR-CIFRI	03 months (03.12.2015 to 02.03.2016)	ETL, Dept. of Agril. Chemicals, BCKV	Course Director

## 17. SEMINAR/ SYMPOSIUM/ WORKSHOP, etc. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Workshop on “Promotion of Botanicals for Integrated Pest Management” & Inauguration of Agro-Chemical Formulation Laboratory, Dept. of Agricultural Chemicals	One day (July 04, 2012)	D. R. Sarkar Hall, BCKV, Mohanpur	Organizing Secretary
2.	Workshop under Public-Private Partnership on “A golden march towards food security and sustainability,” Department of Agril. Chemicals (in collaboration with Dhanuka Agritech Ltd.)	One day (November 29, 2010)	Farmers’ Training Center, BCKV, Kalyani	Organizing Secretary

## 18. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

- **Granted Indian Patent** on “Nanoemulsion Pesticidal Formulation of *Pongamia pinnata*,” Inventors: A. Purkait, DK Hazra and RK Kole, Patent No. **526504**, March 14, 2024

- **Fellow of the Society of Pesticide Science, India (FSPSI)**, ICAR: IARI, New Delhi, 2018.
- **Fellow of Inland Fisheries Society of India (FIFSI)**, ICAR: CIFRI, Barrackpore, Kolkata, 2007.
- **Guest of Honor** in the Launching Workshop of a project under National Mission for Clean Ganga (NMCG) at ICAR: CIFRI, Barrackpore, Kolkata, July 08, 2016.
- **Chaired a Technical Session** in the National Seminar on Agro-Chemical Inputs and Its Extension Approaches Towards Food and Bio-Security: Prospects & Challenges (AEFS-2019), SAMETI, Ramakrishna Mission Ashrama, Narendrapur, November 15-16, 2019.
- **Acted as External Jury** for screening of applications for IFSI Gold Medals Awards at ICAR: CIFRI, Barrackpore, Kolkata, 05 February, 2020.
- **Member of the Sub-committee on “Basic Sciences” constituted by ASRB/ICAR** for revision of ARS syllabus based on New BSMA recommendation and revised qualification, February, 2022.
- **Member of Pesticide Residues Sectional Committee**, Food & Drugs (FAD-I), Bureau of Indian Standards, New Delhi: 2009; 2010
- **Awarded the Best Poster presented** in the *International Conference on “Soil, Water and Environmental Quality - Issues and Strategies”* organized by Indian Society of Soil Science, IARI, New Delhi, 28<sup>th</sup> January – 1<sup>st</sup> February, 2005.
- **Awarded Chinese Govt. Scholarship, Govt. of PR China** (1999-2000)
- **Awarded Senior Research Associateship (Pool Officer) under Scientists’ Pool Scheme, CSIR** (1996–1997)
- **Awarded Research Associateship**, Central Inland Capture Fisheries Research Institute, ICAR (1994-1996)
- **Awarded Research Associateship**, Jadavpur University (1993-1994)
- **Awarded Research Associateship**, Indian Agricultural Research Institute (1993)
- **Awarded Senior Research Fellowship**, CSIR (1991-1993)
- **Awarded Senior Research Fellowship**, BCKV (1988-1991)
- **Awarded University Merit Scholarship**, BCKV (1985-87)
- **Awarded National Merit Scholarship**, Govt. of India (1978-1984)

**19. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY (Bulleted list):**

- **Zhejiang University, Hangzhou, P.R. China:** Conducted Higher Study and awarded Advance Diploma in Plant Protection specializing in Pesticide Toxicology in 1999 -2000.

- **British Crop Protection Council (BCPC):** Attended BCPC International Congress – Crop Science & Technology, Glasgow, Scotland, UK, 2005
- **International Institute of Bengal Basin:** Attended 7<sup>th</sup> International Symposium on Water, Arsenic and Environment Crisis in Bengal Basin: Issues, Impact and Strategies, Chameli House, Dhaka, Bangladesh, 2004.
- **American Chemical Society:** Awarded certificate of appreciation for valuable contribution and dedicated service in peer review of manuscripts, 2011.
- **Reviewer of International Scientific Journals, viz.,** Journal of Agril. & Food Chemistry; Food Chemistry; Science of the Total Environment; Food Science & Technology; Pest Management Science; Chemosphere; Journal of Environmental Management; Journal of Hazardous Materials; etc.

## 20. PUBLICATIONS

### A. BOOKS

1. R Mondal and **RK Kole** (2021). “Monitoring and Evaluation of Pesticide Residues in Aquatic Systems” (Chapter 3). In: Inamuddin et al. (eds.), *Sustainable Agriculture Reviews 47: Pesticide Occurrence, Analysis and Remediation*, Vol. 1, Biological Systems, Springer Nature Switzerland AG 2021, [https://doi.org/10.1007/978-3-030-54712-7\\_3](https://doi.org/10.1007/978-3-030-54712-7_3).
2. E. Kunhikrishnan, **R. K. Kole**, R. N. Ray, D. K. Pandey and M. K. Patowary (2012). “Energy and Environment” (Working group of the Sub-Theme-IV). In: *Activity Guide 2012-13 of the 20<sup>th</sup> National Children's Science Congress 2012* on the Focal Theme - “Energy: Explore, Harness and Conserve.” Published by National Council for Science & Technology Communication (NCSTC) Network, Dept. of Science and Technology, Govt. of India, New Delhi, pp. 65-74.
3. **R. K. Kole**, P. Mukherjee and M. Sengupta (2006). “Aquatic environment of inland natural open waters: threats and mitigations.” In: *River Fisheries in India – Issues and Current Status*, Eds. K. K. Vass, K. Mitra, V. R. Suresh, P. K. Katiha and N. P. Shrivastava. Inland Fisheries Society of India, Barrackpore, Kolkata, pp. 250-265.
4. N. Adityachaudhury and **R. K. Kole** (1999). “Oil Extraction: Scope for development of suitable small scale agro-based industries in the rural sector of West Bengal for production of some valuable essential oils from selected flowers.” *Hand Book on Entrepreneurial Chemical and Agro Technological Vision*, National Workshop on Entrepreneurship Development Based on Chemical and Agro Technologies, Eastern India Horticulture & Biotechnology Centre, Bahau and Dept. of Chemistry, Jadavpur University, February 23-28, pp. 29-33.

## B. RESEARCH PAPERS (Best 10 out of 85)

1. A Purkait, DK Hazra, **R Kole**, S Mandal, S Bhattacharaya and R Karmakar (2024). Harnessing the Carrier Solvent Complexity of Crop Biostimulant Liquid Formulations Using Locally Available Transesterified Waste Cooking Oil: Economic Recycling, Solvent Performance, and Bioefficacy Evaluation. *Journal of Agricultural and Food Chemistry*, 72 (2), 1017-1024; DOI: <https://doi.org/10.1021/acs.jafc.3c06167>. [NAAS: 11.70]
2. S Ghosh, D. Rana, P Sarkar, S Roy, A Kumar, J Naskar and **RK Kole** (2022). Ecological safety with multifunctional applications of biogenic mono and bimetallic (Au–Ag) alloy nanoparticles. *Chemosphere*, 288 (2), 132585, <https://doi.org/10.1016/j.chemosphere.2021.132585>. [NAAS: 14.10]
3. S Ghosh, S Roy, J Naskar and **RK Kole** (2020). Process optimization for biosynthesis of mono and bimetallic alloy nanoparticle catalysts for degradation of dyes in individual and ternary mixture. *Scientific Reports*, 10:277, 1-14. [doi.org/10.1038/s41598-019-57097-0](https://doi.org/10.1038/s41598-019-57097-0). [NAAS: 9.80]
4. A Mukherjee, R Mehta, S Saha, A Bhattacharya, PK Biswas and **RK Kole** (2020). Removal of multiple pesticide residues from water by low-pressure thin-film composite membrane. *Applied Water Science*, 10: 244, 1-8. <https://doi.org/10.1007/s13201-020-01315-y>. [NAAS: 11.70]
5. S. Biswas, R. Mondal, A. Mukherjee, M. Sarkar and **RK Kole** (2019). Simultaneous determination and risk assessment of fipronil and its metabolites in sugarcane, using GC-ECD and confirmation by GC-MS/MS. *Food Chemistry*, 272, 559-567. [NAAS: 14.50]
6. R. Mondal, A. Mukherjee, S. Biswas and **RK Kole** (2018). GC-MS/MS determination and ecological risk assessment of pesticides in aquatic system: A case study in Hooghly River basin in West Bengal, India. *Chemosphere*, 206, 217-230. [NAAS: 14.10]
7. D. Sardar and **RK Kole** (2005). "Metabolism of chlorpyrifos in relation to its effect on the availability of some plant nutrients in soil." *Chemosphere*, 61(9), 1273-1280. [NAAS: 14.10]
8. M. A. Sarkar, S. Roy, **RK Kole** and A. Chowdhury (2001). "Persistence and metabolism of imidacloprid in different soils of West Bengal". *Pest Management Science*, 57 (7), 598 – 602. [NAAS: 9.80]
9. S. Samanta, **RK Kole** and A. Chowdhury (1999). "Photodegradation of metsulfuron methyl in aqueous solution". *Chemosphere*, 39 (6), 873-879. [NAAS: 14.10]
10. **RK Kole**, C. Satpathi, A. Chowdhury, M. R. Ghosh and N. Adityachaudhury (1992). Isolation of amorpholone, a potent rotenoid insecticide from *Tephrosia candida*. *Journal of Agricultural and Food Chemistry*, 40 (7), 1208-1210. [NAAS: 11.70]



08.05.2025

Signature with Date