

# RESUME

NAME: DR. PRASANTA KUMAR BANDYOPADHYAY

DESIGNATION: Professor

CONTACTS:

1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

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5. GOOGLE SCHOLAR PROFILE:

<https://scholar.google.co.in/citations?user=o2VeN1EAAA&hl=e>

6. RESEARCHGATE PROFILE: <https://www.researchgate.net/profile/Prasanta-Kumar-Bandyopadhyay>

7. DATE OF BIRTH: 05/01/1963

8. DATE OF JOINING TO THE UNIVERSITY: 25/02/1997



## 9. ACADEMIC PROFILE:

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Agril. Chemistry and Soil Science	BCKV	1994
MASTER'S	Agril. Chemistry and Soil Science	BCKV	1987
BACHELOR'S	B. Sc. Ag. (Hons.)	Visva Bharati	1985

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

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Professor	BCKV	25.02.2012	Till date
Associate Professor	BCKV	25.02.2009	24.02.2012
Reader	BCKV	25.02.2006	24.02.2009
Lecturer (Sr. Scale)	BCKV	25.02.2001	24.02.2006
Lecturer	BCKV	25.02.1997	24.02.2001

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

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1.	Chief Scientist and Officer-in-charge of AICRP on Irrigation Water Management	22.12.2021	08.01.2025
2.	Dean of Students' Welfare	01.11.2022	06.9.2023

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

- **Methods and strategies to characterize soils physically and hydraulically at various temporal and spatial scales**
- **Resource conservation technology for mitigating abiotic stress & nutrient use efficiency**
- **Water management in rainfed and irrigated systems**
- **Plant root-soil water interactions and evapotranspiration**
- **Soil structural integrity as influenced by different management practices and physical protection**
- **Carbon sequestration in soils**
- **Pedotransfer functions for ease determination of physical properties for soil quality indicators**

**13. COURSES ASSOCIATED WITH:**

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	ACSS-106	Fundamentals of Soil Science	1+1
	ACSS-106 (H)	Fundamentals of Soil Science	1+1
POSTGRADUATE	SOIL-501	Soil Physics	2+1
	SOIL-512	Land Degradation & Restoration	1+0
	SWE-554	Crop Environmental Engineering	2+1
Ph.D.	SOIL-601	Recent Trends in Soil Physics	2+0

**14. NUMBER OF STUDENTS SUPERVISED:**

**Master's: 16    Doctoral: 06**

**15. PROJECT ACTIVITIES**

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1.	Assessment of quality and resilience of soils in diverse agro-ecosystems	NAIP (ICAR), funded by world bank & GOI	Completed (July 2008 to March 2012)	Co-PI
2.	Development of organic package of practice of various components in a farming system and their transfer to farmers' field under certified organic farming	Rastriya Krishi Vikash Yojana, Govt. of West Bengal	Completed (April 2010 to March 2013)	Co-PI
3.	Mitigating abiotic stresses and enhancing resource-use efficiency in pulses in rice fallows through innovative Resource conservation practices	National Fund for Basic, Strategic and Frontier Application Research in Agriculture (ICAR)	Completed (June 2011 to May 2016)	PI
4.	Relationship between <i>Sclerotium rolfsii</i> , <i>Rhizoctonia solanai</i> , the soil and climatic variable in three major	National Fund for Basic, Strategic and Frontier Application	Completed (April 2013 to March 2018)	Co-PI

cropping system in the country and identification of markers for resistance to Sclerotium rolfsii	Research in Agriculture (ICAR)		
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## 16. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

**ORGANIZED: Nil**

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

## 17. SEMINAR/ SYMPOSIUM/ WORKSHOP etc

**ORGANIZED: Nil**

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

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

- Recipient of Best Poster Presentation Award in 2004 (ISSS), 2016 (CWSS)
- Adjunct Faculty Member, UBKV, Pundibari (2018-2019)
- Editorial Board Member of the Journal of the Indian Society of Soil Science (2020-2023)
- Reviewer of Journals of International repute viz., European journal of Soil Science; Australian Journal of Soil Research; Agricultural Water Management; Agriculture Ecosystems & Environment; Journal of Environmental Management; Bioresource Technology etc.

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

## 20. PUBLICATIONS

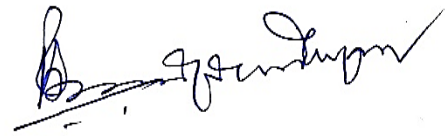
### A. BOOKS:

1. Mukherjee, S., Kundu, A., Kundu, R., Adhikari, S., and **Bandyopadhyay, P.K.** 2021. Comprehensive Soil Science, Jain Brothers, New Delhi. ISBN: 978-93-90576-21-0
2. Patra, S.K., Poddar, R., **Bandyopadhyay, P.K.**, Ghosh, D., Mohanty, S. and Sarengi, A. (2024). Water Management Strategies to Boost Crop Yield, Input Use Efficiency, and Income in Irrigated Agriculture: A Ready Reckoner. AICRP on Irrigation Water Management, Gayeshpur Centre, Bidhan Chandra Krishi Viswavidhyalaya, Mohanpur, Nadia, West Bengal. ISBN No-978-93-340-9817-4. 24p.
3. Patra, S.K., Poddar, R., **Bandyopadhyay, P.K.**, Ghosh, D., Mohanty, S. and Sarengi, A. (2024). Water Resources Management in Irrigated Command: On-Farm Technological Solutions for Sustainable Crop Production. AICRP on Irrigation Water Management, Gayeshpur Centre, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal. ISBN: 978-93-340-9979-9. 33p.
4. Patra, S.K., Poddar, R., **Bandyopadhyay, P.K.**, Ghosh, D., Mohanty, S. and Sarengi, A. (2024). Recommendations for Water management Technology: A

## B. RESEARCH PAPERS (Best 10)

1. **Bandyopadhyay, P. K.**, Mallick, S. and Rana, S.K. 2005. Actual evapotranspiration and crop coefficients of peanut under varying soil moisture levels in a humid tropical region of India. *Irrigation Science* 23 (4): 161-169. <https://doi.org/10.1007/s00271-005-0104-7> (NAAS: 9.00)
2. **Bandyopadhyay, P.K.**, Saha Subita, Mani, P.K., Mandal, B. 2010. Effect of organic inputs on aggregate associated organic carbon concentration under long-term rice-wheat cropping system. *Geoderma* 154: 379-386, <https://doi.org/10.1016/j.geoderma.2009.11.011> (NAAS: 12.10)
3. **Bandyopadhyay, P.K.**, Singh, K.C., Mondal, K., Nath, R., Ghosh, P.K., Kumar, N., Basu, P.S. and S.S. Singh. 2016. Effects of stubble length of rice in mitigating soil moisture stress and on yield of lentil in rice-lentil relay crop. *Agricultural Water Management* 173: 91-102. <http://dx.doi.org/10.1016/j.agwat.2016.05.009> (NAAS: 12.70)
4. Biswas, T., **Bandyopadhyay, P.K.**, Nandi, R., Mukherjee, S., Kundu, A., Reddy, P., Mandal, B., Kumar, P. 2022. Impact of mulching and nutrients on soil water balance and actual evapotranspiration of irrigated winter cabbage (*Brassica oleracea* var. capitata L.). *Agricultural Water Management* 263 <https://doi.org/10.1016/j.agwat.2022.107456> (NAAS: 12.70)
5. Majumder, Bidisha., Mandal, B., **Bandyopadhyay, P.K.**, Gangopadhyay, A., Mani, P.K., Kundu, A.L. and Mazumdar, D. 2008. Organic amendments influence soil organic carbon pools and rice-wheat productivity. *Soil Science Society of America Journal* 72:775-785. <https://doi.org/10.2136/sssaj2006.0378> (NAAS: 8.90)
6. Mandal, B., Majumder Bidisha, Adhya, T.K., **Bandyopadhyay, P.K.**, Gangopadhyay, A., Sarkar D., Kundu, M.C., Gupta Choudhury, S., Hazra, G.C., Kundu, S., Samantaray, R.N. and Mishra, A.K. 2008. Potential of double-cropped rice ecology to conserve organic carbon under subtropical climate. *Global Change Biology* 14, 2139-2151, <https://doi.org/10.1111/j.1365-2486.2008.01627.x> (NAAS: 17.60)
7. Mandal, B., Majumder Bidisha, **Bandyopadhyay, P.K.**, Hazra, G.C., Gangopadhyay, A., Samantaray, R.N., Mishra, A.K., Chaudhury, J., Saha, M.N. and Kundu, S. 2007. The potential of cropping systems and soil amendments for carbon sequestration in soils under long-term experiments in subtropical India. *Global Change Biology* 13: 357-369, <https://doi.org/10.1111/j.1365-2486.2006.01309.x> (NAAS: 17.60)
8. Mukherjee, S., Nandi, R., Kundu, A., **Bandyopadhyay, P.K.**, Nalia, A., Ghatak, P., Nath, R. 2022. Soil water stress and physiological responses of chickpea (*Cicer arietinum* L.) subject to tillage and irrigation management in

9. Nandi, R., Mondal, K., Singh, K.C., Saha, M., **Bandyopadhyay, P.K.** and Ghosh, P.K. 2021. Yield-water relationships of lentil grown under different rice establishments in Lower Gangetic Plain of India. Agricultural Water Management 246:106675. <https://doi10.1016/j.agwat.2020.106675> (NAAS: 12.70)
10. Nandi, R., Mukherjee, S., **Bandyopadhyay, P.K.**, Saha, M., Singh, K.C., Ghatak, P., Kundu, A., Saha, S., Nath, R., Chakraborti, P. 2023. Assessment and mitigation of soil water stress of rainfed lentil (*Lens culinaries* Medik) through sowing time, tillage and potassic fertilization disparities. Agricultural Water Management 277 <https://doi.org/10.1016/j.agwat.2022.108120> (NAAS: 12.70)



21.02.2025

Signature with Date