RESUME

NAME: DR. PRASANTA KUMAR BANDYOPADHYAY

DESIGNATION: Professor

CONTACTS:

1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

Department of Agricultural Chemistry and Soil Science, Mohanpur

2. PHONE : Mobile: 9433335557//8910229299

WhatsApp: 9433335557

3. EMAIL : Institutional: bandyopadhyay.prasanta.kr@bckv.edu.in

Alternative: pkb_bckv@rediffmail.com

4. ORCID ID: https://orcid.org/0000-0002-2059-7946

5. GOOGLE SCHOLAR PROFILE:

https://scholar.google.co.in/citations?user=o2VeN1EAAAAJ&hl=e

6. RESEARCHGATE PROFILE: https://www.researchgate.net/profile/Prasanta-

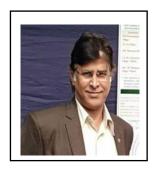
Kumar-Bandyopadhyay

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	INSTITUTE	YEAR OF
	DISCIPLINE/ DEPARTMENT		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.	NAME OF THE POST(S)/	PERIOD From (Date) To (Date)	
NO.	RESPONSIBILITY(IES)		
1.	Chief Scientist and Officer-in-charge of AICRP	22.12.2021	Till date
	on Irrigation Water Management		
2.	Dean of Students' Welfare	1.11.2022	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	COURSE TITLE	CREDIT
	NO.		
UNDERGRADUATE	ACSS-103	Fundamentals of Soil Science	1+1
	ACSS-103 (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: 16Doctoral: 06

15. RESOURCE PERSON FOR OTHER INSTITUTES (involvement in teaching or working as member of academic/ research bodies of other organizations, if any

1. Acted as an Examiner/Question setter/ Thesis evaluator:

- i) Orissa University of Agriculture and Technology, Bhubaneswar
- ii) Visva-Bharati University, Santiniketan
- iii) Uttar Banga Krishi Viswavidyalaya, Pundibari
- iv) IIT, Kharagpur
- v) IARI, New Delhi
- vi) CCSHAU, Hisar

2. Member of the Selection Committee:

i) IIT Kharagpur

3. Adjunct Faculty Member:

i) Uttar Banga Krishi Viswavidyalaya, Pundibari

16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

1. Indian Society of Soil Science

17. PROJECT ACTIVITIES

SL.	TITLE OF THE PROJECT	FUNDING	ONGOING/	PI/ Co-PI
NO.		AGENCY	COMPLETED	
1.	Assessment of quality and	NAIP (ICAR),	Completed	Co-PI
	resilience of soils in diverse	funded by world	(July 2008 to	
	agro-ecosystems	bank & GOI	March 2012)	
2.	Development of organic	Rastriya Krishi	Completed	Co-PI
	package of practice of various	Vikash Yojona,	(April 2010 to	
	components in a farming	Govt. of West	March 2013)	
	system and their transfer to	Bengal		
	farmers' field under certified			
	organic farming			
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 Sclerotium rolfsii, Rhizoctonia solanai, the soil and climatic variable in three major cropping system in the country and identification of markers for resistance to Sclerotium rolfsii	National Fund for Basic, Strategic and Frontier Application Research in Agriculture (ICAR)	Completed (April 2013 to March 2018)	Co-PI

18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

A. ORGANIZED: Nil

SL. N	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

B. ATTENDED

SL.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
NO.				
1.	ICAR sponsored "National Training	07-27 Jan.,	CSSRI, Karnal	Trainee
	Course on Agricultural Water	2002		
	Management"			
2.	Farmers' Training on Soil testing	2004	Nadia KVK,	Resource
			Gayeshpur	Person
3.	"Advanced strategies for the	06-26 Dec.,	BCKV,	Trainee
	mitigation of heavy metals and	2005	Mohanpur	
	arsenic pollution in agricultural			
	production systems"			
4.	Farmers' Training on Composting:	2005	Nadia KVK,	Resource
	Methods & Utilities		Gayeshpur	Person
5.	Lecture as well as practical	25 June- 04	BCKV,	Resource
	demonstration on "Improvement of	July, 2008	Mohanpur	Person
	soil physical quality by Organic			
	farming" to the ADAs' in a training			
	on organic farming			
6.	In Zilla Krishi Mela on a Seminar	15 Feb.,	Balurghat,	Resource
	"Mrittika Sanraksharane sasya	2009	Dakshin	person
	baichitrakoroner gurutto"		Dinajpur	
7.	The brainstorming workshop on the	14-17 Feb.,	BCKV,	Resource
	theme of "Land Resources" for the	2010	Mohanpur	person
	preparation of manuscripts of			
	National Children Science Congress			
	(NCSC) by DST, GOI			
8.	Celebration of World Water Day on	22 Mar.,	BCKV,	Resource

	"Groundwater: making the invisible	2022	Mohanpur	person
	visible"			
9.	Delivered on "Soil where food	05 Dec.,	CR Farm,	Resource
	begins" at Central Research Farm,	2022	Gayeshpur	person
	BCKV, Gayeshpur, Nadia			
10.	Celebration of World Water Day on	22 Mar.,	BCKV,	Resource
	"Accelerating the change to solve	2023	Mohanpur	person
	the water and sanitation crisis"			
11.	Delivered on "Soil and water: A	05 Dec.,	CR Farm,	Resource
	source of life" at Central Research	2023	Gayeshpur	person
	Farm, BCKV, Gayeshpur, Nadia.			

19. SEMINAR/ SYMPOSIUM/ WORKSHOP etc.

A. ORGANIZED: Nil

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

B. ATTENDED

SL.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
NO.				
1.	State level Workshop-cum-training on	17-19 June,	Pundibari,	Presenter
	Jute under special Jute Development	1998	Coochbehar.	
	Program			
2.	State level Workshop-cum-training on	24-26 May,	Pundibari,	Presenter
	Jute under special Jute Development	2000	Coochbehar	
	Program			
3.	National Seminar on Developments in	04 NovDec.	CSAAU&T,	Presenter
	Soil Science, Indian Society of Soil	08, 2003	Kanpur	
	Science			
4.	National Seminar on Developments in	27-29 Oct,	ANGRAU,	Presenter
	Soil Science, Indian Society of Soil	2004	Hydrabad	
	Science			

5.	International Conference on Soil, Water	28Jan1Feb.,	IARI, New	Presenter
	& Environment Quality – Issues and	2005	Delhi	
	Challenges			
6.	National Seminar on Technology	25-27 Nov.,	Visva Bharati,	Presenter
	Options of Organic Inputs for Sustaining	2006	Santiniketan	
	Health in Indian Agriculture, Sponsored			
	by National Centre of Organic Farming			
7.	National seminar on Maintenance of Soil	27-28 Nov.,	BCKV,	Presenter
	Health and Food Security, Indian	2009	Mohanpur	
	Society of Agricultural Chemists			
8.	Platinum Jubilee Symposium on Soil	22-25 Dec.	IARI. New	Presenter
	Science in Meeting the Challenges to	2009.	Delhi.	
	Food Security and Environmental			
	Quality, Indian Society of Soil Science			
9.	National Seminar on Developments in	14-17 Nov.	IISS, Bhopal.	Presenter
	Soil Science, Indian Society of Soil	2010.		
	Science			
10.	International Symposium on System	24-27Feb,	BCKV,	Presenter
	Intensification Towards Food and	2011	Mohanpur	
	Environmental Security, Crop and Weed			
	Science Society			
11.	National Seminar on Developments in	3-6 Dec.,	PAU.	Presenter
	Soil Science, Indian Society of Soil	2012	Ludhiana	
	Science			
12.	National Seminar on "Developments in	24-27 Nov.,	ANGRAU,	Presenter
	Soil Science -2014"	2014	Hyderabad	
13.	International Conference of the	31 Oct., 2015	BAU, Dhaka	Presenter
	Bangladesh Society of Agronomy			
14.	National Seminar on" Sustainable	17-18 Dec.,	BCKV,	Presenter
	Agriculture for Food Security and Better	2015	Mohanpur	
	Environment"			
15.	National Seminar on "Environmental	Feb 2016	BCKV,	Resource
	Concern on Fertilizer Use in Future"		Mohanpur	person

16.	National Seminar on "Maximizing	8 Mar., 2017	RKMVU,	Presenter
	fertilizer use efficiency and		Narendrapur	
	environmental health for posterity"			
17.	National Seminar on "Developments in	11-14 Dec.,	Amity Univ,	Presenter
	Soil Science -2017"	2017	Kolkata	
18.	National Seminar-cum- AGM on "Agri-	29 Mar.,	BCKV,	Resource
	chemicals for a benign environment"	2018	Mohanpur	Person
19.	National Seminar on "Developments in	15-18 Nov.,	BHU,	Resource
	Soil Science - 2019"	2019	Varanasi	Person
20.	National Seminar on "Developments in	16-19 Nov.,	Sriniketan,	Resource
	Soil Science -2021"	2021	Visva Bharati	Person
21.	Annual scientist meeting of AICRP on	19-22 July,	IIWM,	Presenter
	Irrigation Water Management (online)	2022	Bhubaneswar	
22.	Chief scientist meeting of AICRP on	21-23 June,	HPKV,	Presenter
	Irrigation Water Management (Online)	2023	Palampur	
23.	Biennial Workshop of AICRP on	2-4 July,	ANDAUT,	Presenter
	Irrigation Water Management	2024	Ayodhya	

20. 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.

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

22. PUBLICATIONS

- A. BOOKS: Nil
- **B. BOOK CHAPTERS (Best 10)**

- 1. **Bandyopadhyay, P.K.** 2014. "Root distribution pattern of pulses in response to water availability" In "Resource Conservation Technology in Pulses"-Chapter-40: Eds: Ghosh et al. Scientific Publishers (India), ISBN: 978-81-7233-885-5. Page No. 512 to 520
- 2. Singh, A.K. and **Bandyopadhyay, P.K.** 2019. "Instrumentation for soil moisture determination" In "Soil Analysis" Chapter 6.2: Eds: Singh et al. Indian Society of Soil Science, New Delhi.
- 3. **Bandyopadhyay, P.K.** 2020. "Functional Behaviour of Soil Physical Parameters for Regulating Organic C Pools" In "Carbon Management in Tropical and Sub-Tropical Terrestrial Systems" Chapter 14: Eds: Ghosh et al. Springer Nature Singapore Pte Ltd. doi: 10.1007/978-981-13-9628-1_14
- 4. 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
- 5. Kundu, A., Mukherjee, S., Nandi, R. and **Bandyopadhyay, P.K.** 2021. Conservation agriculture-an approach towards sustainability of soil physical health. In Conservation agriculture and climate change: Impacts and adaptations, New India Publishing Agency, New Delhi, pp 283-307. ISBN: 978-93-90591-08-4
- 6. Saha, S., Dey, M., Bose, S., Poddar, R. and **Bandyopadhyay, P.K.** 2024. "Alleviation of Heavy Metal Stress Through the Use of Nanotechnology" In "The Nanotechnology Driven Agriculture" Chapter 9. p. 151-164. DOI: 10.1201/9781003376446-9

C. 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/https:
- 2. 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)
- 3. 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)
- 4. 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://doi10.2136/sssaj2006.0378 (NAAS: 8.90)
- 5. **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://doi10.1016/j.geoderma.2009.11.011 (NAAS: 12.10)
- 6. 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)
- 7. 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://doi.org/10.1016/j.agwat.2020.106675 (NAAS: 12.70)
- 8. 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)
- 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 lower Gangetic plain. Agricultural Water Management 263 https://doi.org/10.1016/j.agwat.2021.107443 (NAAS: 12.70)
- 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)

18.7.2024

Signature with Date