

RESUME

NAME: Dr Benukar Biswas

DESIGNATION: Associate Professor

CONTACTS:

1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

Associate Professor, Department of Agronomy, BCKV, Mohanpur,
Nadia, West Bengal, India- 741252 &
Officer-in-Charge, AICRP-Agroforestry, RRS (Red & Lateritic Zone),
Jhargram-721 507, West Bengal, India

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3. EMAIL : Institutional: biswas.benukar@bckv.edu.in

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4. ORCID ID: 0000-0002-7582-8377

5. GOOGLE SCHOLAR PROFILE:

<https://scholar.google.com/citations?user=dGZJVacAAAAJ>

6. RESEARCHGATE PROFILE:

<https://www.researchgate.net/profile/Benukar-Biswas>

7. DATE OF BIRTH: 08 / 09 / 1971

8. DATE OF JOINING TO THE UNIVERSITY: 11 / 12 / 2014



9. ACADEMIC PROFILE:

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph. D	Visva-Bharati	2003
MASTER'S	M. Sc (Ag) in Agronomy	University of Calcutta	1995
BACHELOR'S	B. Sc in Agriculture	Visva-Bharati	1993

10. EMPLOYMENT HISTORY: (Starting from present position)

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Associate Professor and Officer-in-Charge, AICRP on Agroforestry	Bidhan Chandra Krishi Viswavidyalaya	29.10.2018	till date
Associate Professor, AICRP on Agroforestry	Bidhan Chandra Krishi Viswavidyalaya	01.04.2018	28.10.2018
Associate Professor, AICRP on Water Management	Bidhan Chandra Krishi Viswavidyalaya	11.12.2014	31.03.2017

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Agronomist, West Bengal Higher Agricultural Service (Research), Grade II	Pulses and Oilseeds Research Station, Berhampore	03.01.2011	10.12.2014
Agronomist, West Bengal Higher Agricultural Service (Research), Grade II	Zonal Adaptive Research Station, Nalhati, Birbhum	22.01.2007	10.01.2011
Agronomist, West Bengal Higher Agricultural Service (Research), Grade II	Zonal Adaptive Research Station, Jalpaiguri	15.04.2004	19.01.2007
Agronomist, West Bengal Agricultural Service (Research)	Zonal Adaptive Research Station, Krishnanagar	24.04.1998	13.04.2004
Ph D Student	Punjab Agricultural University	17.01.97	15.01.98
Junior Research Fellow (CSIR)	Institute of Himalayan Bioresource Technology (erstwhile CSIR Complex Palampur)	27.07.96	16.01.97

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

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
Officer-in-Charge, AICRP on Agroforestry	Bidhan Chandra Krishi Viswavidyalaya	29.10.2018	till date
Head of the Institute and Drawing and Disbursing Officer (DDO)	Zonal Adaptive Research Station, Nalhati, Birbhum	22.01.2007	10.01.2011
Head of the Institute and Drawing and Disbursing Officer (DDO)	Zonal Adaptive Research Station, Jalpaiguri	15.04.2004	19.01.2007

12. AREA OF RESEARCH: (Bulleted list)

- Agroforestry-based ecosystem services
- Agronomic options of arsenic mitigation
- Climate-change resilient rice cultivation
- Micro irrigation system
- Conservation agriculture
- Cropping system research

13. COURSES ASSOCIATED WITH:

Associated (2015-2018) with five courses in PhD (Agronomy), M Sc (Agronomy) and B Sc (Agriculture) at Mohanpur, Burdwan and Bankura compass of BCKV.

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	AGR 404	RAWE	
	AGR 151	Fundamentals of Agronomy II	1+1
POST GRADUATE	AGRON 512	Dry land farming and watershed management	2+1
	AGRON 605	Irrigation management	2+1
Ph.D.			

14. NUMBER OF STUDENTS SUPERVISED:

- Master's. _ Four (member of advisory committee)
- Doctoral Three (Chairman, advisory committee)

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

- IARI -Mega University Hub, ICAR-CRIJAF (2023-24)
- Dr. PDKV, Akola, Maharashtra (online tutorial class series for national and international competitive examinations-preparation strategy for Agronomy during 2021-22).

16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

- The Indian Society of Agronomy
- Indian Science Congress Association
- Indian Society of Agroforestry
- The Agricultural Society of India
- Society for Application of Statistics in Agriculture

17. PROJECT ACTIVITIES

Associated with 16 research projects as PI, CO-PI &/or associated scientist.

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	AICRP on Agroforestry (2018-till date)	ICAR and Government of West Bengal	Ongoing	PI (Officer-In-Charge)
2	Evaluation of bio-efficacy and phyto-	M/S UPL	Ongoing	PI

	toxicity of GPH 0122 against complex weed flora in non-crop area (2023-till date)			
3	Climate resilient rice cultivation technology for higher water productivity at eastern Indo-Gangetic plains (2018-21)	DST, Government of West Bengal	Completed	PI
4	Pursuing sustainable rice productivity at Western Tract of West Bengal with System Assured of Rice Production Technology (2018-21)	Government of West Bengal, Directorate of Agriculture, ATMA	Completed	PI
5	Centre of Advanced Agricultural Science and Technology (CAAST) on Conservation Agriculture (2018-21)	ICAR	Completed	Associated Scientist
6	AICRP on Water Management (2014-2018)	ICAR and Government of West Bengal	Completed	Co-PI
10	All India Co-ordinated Research Project on Rapeseed-Mustard (2011-14)	ICAR and Government of West Bengal	Completed	Associated Scientist
11	All India Co-ordinated Research Project on MULLaRP (2011-14)	ICAR and Government of West Bengal	Completed	Associated Scientist
12	RIDF Stream II project on Evaluation of Resource Conservation Technology in pulses and oilseeds (2012-14)	ICAR and Government of West Bengal	Completed	PI
13	Popularization of Resource Conservation Technology at red and laterite zone of West Bengal (2007-11)	Cereal System Initiative for South Asia CIMMYT	Completed	Associated Scientist
14	All India Co-ordinated Research Project on Wheat (2004-07)	ICAR and Government of West Bengal	Completed	Associated Scientist
15	All India Co-ordinated Research Project on Rapeseed-Mustard (2004-07)	ICAR and Government of West Bengal	Completed	Associated Scientist
16	Rice Wheat Mechanization Project on introduction of Zero till seed cum fertiliser drill (2003-04)	NATP – ICAR – Govt. of India	Completed	Associated Scientist

18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME**A. ORGANIZED**

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	Capacity building training on the System of Assured Rice Production	28-31/08/2018	Koraput and Nabarangpur of Odisha	Key resource person

B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	Data Analysis Using “R” Software	21st to 25th June, 2022.	KAU, Thrissur	Participant (online)
2	Data Analysis in Agriculture using Statistical Software Packages	16/01/2020 to 05/02/2020.	ICAR-IASRI, New Delhi	Participant
3	Training programme on Advances in Designing and Analysis of Field Crop Experiments	October 14 – November 03, 2019	ICAR-IASRI, New Delhi	Participant
4	Short courses on recent advances in micro-irrigation and fertigation for enhancing water and crop productivity under open and protected environment	07-16 October, 2017	CSKHPKV, Palampur	Participant
5	Developing Winning Research Proposals in Agricultural Research	20-24th September, 2016	ICAR-NAARM, Hyderabad	Participant
6	Short course on precision conservation agriculture for climate adaptation and mitigation in cereal system	8-17 August, 2016	ICAR-IIMR, New Delhi	Participant
7	Model training course on improving water productivity for sustainable livelihood and food security	21-28 September, 2015	ICAR-IIWM, Bhubneshwar	Participant
8	National workshop cum training programme on statistical tools for research data analysis	16-22 March 22, 2015	BCKV	Participant

19. SEMINAR/ SYMPOSIUM/ WORKSHOP etc**A. ORGANIZED**

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	Asian Citrus Congress 2023	28-30 October, 2023	Indian Society of Citriculture, Nagpur	Member, Organizing Committee
2	National Conference on Landscape Management for Preventing Flood and Reservoir Sedimentation	22-24 September, 2022	BAU, Ranchi Jharkhand	Member, Organizing Committee
3	National Webinar on Weed Management	6th August, 2021	BCKV, West Bengal.	Member, Organizing Committee
4	State level workshop on the System of Assured Rice Production	09/04/2019	Bhuvneshwar of Odisha	Organizing Secretary
5	State level workshop on the System of Assured Rice Production	14/12/2018	Ajodhya, Purulia	Organizing Secretary
6	Workshop on the System of Assured Rice Production	07/06/2018	Shamayita Math, Bankura	Organizing Secretary
7	Workshop on the System of Assured Rice Production	14-15/12/2017	Shamayita Math, Bankura	Organizing Secretary
8	21st Annual Group Meeting of Rapeseed-Mustard of DRMR, ICAR	20-22.08.2014	BCKV	Additional Organizing Secretary
9	International Delivery cum Adaptive Research Workshop of Cereal System Initiative for South Asia (CGIAR)	11-12/05/2010	Tarapith, Birbhum	Organizing Secretary

B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	Asian Citrus Congress 2023	28-30, October, 2023.	ICAR-CCRI, Nagpur,	Invited talk
2	Annual Group Meeting of the AICRP on Agroforestry	16-18 October, 2023	PJTSAU, Hyderabad	Centre representative
3	International conference	21-23, February, 2023.	ICRISAT, Hyderabad	Lead lecture
4	Workshop on Prospects and opportunities of natural farming in Jharkhand	March 24-16, 2022,	Birsa Agricultural University, Ranchi. Jharkhand.	Online lecture as Resource person

5	National Seminar on Ecosystem Restoration	June 4-5, 2021,	GITAM, New Delhi.	Online presentation
6	National seminar	20-21 January 2020.	IGKV, Raipur	Lead speaker
7	International conference	15 June, 2019	JNU, New Delhi	Invited lecture
8	National Seminar	05.12.2018	WBUAFS, Kolkata	Lead lecture
9	National Agronomy Congress	20-22 February 2018	GBPUA&T, Pantnagar	Oral presentation
10	International Conference	16-17, January, 2018	Central University of Jharkhand	Lead speaker
11	International Conference	17-18th March, 2017	UBKV	Lead lecture
12	International conference	15 June, 2019	JNU, New Delhi	Invited lecture
13	National Seminar	05.12.2018	WBUAFS, Kolkata	Lead lecture
14	National Agronomy Congress	20-22 February 2018	GBPUA&T, Pantnagar	Oral presentation
15	International Conference	16-17, January, 2018	Central University of Jharkhand	Lead speaker
16	International Conference	17-18th March, 2017	UBKV	Lead lecture
17	Biennial Workshop of AICRP on Irrigation Water Management	22-25. 08.2015	TNAU, Coimbatore	Representative
18	Rabi Group Meeting of All AICRP on MULLaRP	15-16. 09. 2014	IIPR, Kanpur	Representative
19	21st Annual Group Meeting of AICRP on Rapeseed-Mustard	20-22. 08. 2014	BCKV	Representative
20	20 th Annual Group Meeting of AICRP on Rapeseed-Mustard	05-07. 07. 2013	SKDU, S. K. Nagar, Gujrat	Representative
21	19 th Annual Group Meeting of AICRP on Rapeseed-Mustard	03-05. 08. 2012	BAU, Ranchi, Jharkhand	Representative
22	18th Annual Group Meeting of AICRP on Rapeseed-Mustard	05-07. 08. 2011	AAU, Guwahati	Representative
23	Workshop on System of Rice Intensification (SRI)	12-14-11. 2007	DRR, Hyderabad	Representative

20. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

- Editor: Scientific Reports (Springer Nature), Indian Journal of Agronomy (Indian Society of Agronomy)
- Session Judge for the Technical Session of the 31st West Bengal State Science and Technology Congress, 2024, organised by Department of Science and Technology and Biotechnology at Science City, Kolkata on February 29th, 2024
- Member, State Level Technical Committee on System of Assured Rice Production Technology, Government of West Bengal.
- Visiting Expert, Pradhan Mantri Krishi Sinchayee Yojana -Watershed Development Component under MELD system
- Lead Expert, for West Bengal Accelerated Development of Minor Irrigation Project (WBADMIP), Government of West Bengal.
- Expert, Central Silk board, Government of India for evaluation of research projects of Central Sericultural Research & Training Institute, Berhampore, West Bengal, India.
- Chairman, C-DAP Committee for preparation of comprehensive district agricultural plan of Government of West Bengal under RKVY-RAFTER B.
- Co-Chairman of the session, Genetic Resources and Crop Management in the 6th national conference on Nature-based solution for achieving sustainable development goals, organized by Cooch Behar Association for cultivation of Agricultural Sciences, UBKV at Cooch Behar during 5-6th March, 2024.
- Defended before Fifth Quinquennial Review Team works of AICRP on Agroforestry, Jhargram Centre for the period of 2013-2018 at HRS, Kahikuchi, Guwahati, Assam during 10-11/02/2020 and for the period of 2018-2023 online during 09-11/04/2024
- Live phone at Doordarshan Kendra, Kolkata (Importance of Agro forestry in West Bengal - 22/12/2024; Agroforestry for sustainable intensification - 20.08.2019; Climate resilient rice for higher yield and water productivity - 05.06.2018; Popular agroforestry models of West Bengal - 21.08.2018; Conservation Agriculture: a water saving technology - 13.12.2016; Growing more rice with less water -14.06.2016; Water management of summer pulses - 10.03.2015;
- Awarded by Tata Trusts for Working in Difficult area Category

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

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22. PUBLICATIONS

A. BOOKS

1. **Biswas, B.** and Chatterjee, S. 2010. Direct Seeded Rice Book (in Bengali). NAIP, ICAR, CIMMYT & CSISA publication pp 19.
2. **Biswas, B.** 2015. Bioherbicide. ISBN No 9-781514-103661, Create Space Publication, LVOW, USA, pp 79
3. **Biswas, B.** 2015. Cropping System: Research Approach. ISBN No 978-3-659-71154-1, LAP Lambert Academic Publishing, Create Space Publication, Germany, pp 140.
4. **Biswas, B.** 2018. Climate Resilient Rice Production Technology for Higher Yield and Water Productivity, Create space publication. 140 pp. ISBN-10: 1797736434, ISBN-13: 978-1797736433
5. Baidya, S., **Biswas, B.** 2019. Fundamentals of Weed Management in Conservation Agriculture. Create space publication. 116 pp. ISBN-10: 1793158045, ISBN-13: 978-1793158048

6. Patra, K., Das, S., Sarkar, A., Sadhukhan, R., **Biswas, B.**, 2023. The Phipps of Agronomic Quest (Gateway to ICAR's AIEEA-JRF/SRF, NET and Other Competitive Examinations). New Vishal Publications, New Delhi, 310p.
7. **Biswas, B.**, Panda, S., Bhowmick, U. R., Koley, M., Dhara, P. K., Handa, A. K., Arunachalam, A., Suresh Ramanan, S. (2024) Gmelina based Agroforestry for the Restoration of Degraded Drylands. AICRP on Agroforestry, Bidhan Chandra Krishi Viswavidyalaya, Jhargram – 721 507, West Bengal, India; 44 p

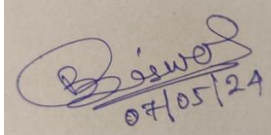
B. BOOK CHAPTERS (Best 10)

- 1 **Chottopadhyay, S.B.** and **Biswas, B.** 2004. Myco herbicides, *In: Chaottopadhyay, S.B., Raj, S.K. and Pan, S.K. (Eds.), Plant Pathology: Problems and perspectives.* Bidhan Chandra Krishi Viswavidyalaya pp. 211-218.
- 2 Mallick, R. and **Biswas, B.** 2006. Cropping System (in Bengali). *In: "Teesta parer krishi"*, SATSA, Jalpaiguri 53-59.
- 3 **Biswas, B.**, Guha Sarkar, C. K., De, D., Patra, A., Patra, S. R. 2018. Climate resilient rice production technology: the water efficient remunerative option for rice farmers of South Asia. In A. K. Verma; A. K. Dave; V. K. Pandey; A. Pal (eds.), *Technology for rice production* (pp. 206-215), Indira Gandhi Krishi Viswavidyalaya, Raipur and Tata Trusts Publication
- 4 Adhikary, S, Anjali Priya, A., **Biswas, B.**, 2020. Evaluation of Awareness Aspect of Organic Cultivation and Organic Product Certification among Indian Population, in: Rawat, R.K., Tripathi, U.K. (Eds.), *Advances in Agronomy.* Akinik Publication, New Delhi, pp. 91–104.
- 5 Adhikary, S., **Biswas, B.**, Naskar, M.K., Mukherjee, B., Singh, A.P., Kousik, A., 2022. Remote Sensing for Agricultural Applications, in: A. P. M. Eyvaz, A. Albahnasawi, E. Gürbulak, & M.T. (Ed.), *Arid Environment - Perspectives, Challenges and Management.* IntechOpen, pp. 137–144. DOI: <http://dx.doi.org/10.5772/intechopen.106876> sensing
- 6 Atta, K., Adhikary, S., Mondal, Saptarshi, Mukherjee, S., Pal, A., Mondal, Subhasis, Jana, K., **Biswas, B.**, 2022. A Review on Stress Physiology and Breeding Potential of an Underutilized, Multipurpose Legume: Rice Bean (*Vigna umbellata*), in: Jha, U.C., Nayyar, H., Agrawal, S.K., Siddique, K.H.M. (Eds.), *Developing Climate Resilient Grain and Forage Legumes.* Springer Nature Singapore, pp. 235–254. https://doi.org/10.1007/978-981-16-9848-4_11

8. RESEARCH PAPERS (Best 10)

- 1 **Biswas, B.**, Chakraborty, D., Timsina, J., Bhowmick, U. R., Dhara, P. K., Ghosh (Lkn), D. K., Sarkar, A., Mondal, M., Adhikary, S., Kanthal, S., Patra, K., Sarkar, S., Parsad, R., & Ray, B. R. (2022). Agroforestry offers multiple ecosystem services in degraded lateritic soils. *Journal of Cleaner Production*, 365, 132768. <https://doi.org/10.1016/j.jclepro.2022.132768> (NAAS : 17.10)
- 2 **Biswas, B.**, Chakraborty, D., Timsina, J., Roy, D. P. Das, Adhikary, S., Das, I., Sarkar, A., Ray, B. R., Sarkar, S., Mondal, M., Kanthal, S., & Bhowmick, U. R. (2021). Replacing winter rice in non-traditional areas by strawberry reduces arsenic bioaccumulation, and improves water productivity and profitability. *Science of The Total Environment*, 788, 147810. <https://doi.org/10.1016/j.scitotenv.2021.147810> (NAAS : 15.80)
- 3 **Biswas, B.**, Ghosh, D. C., Dasgupta, M. K., Trivedi, N., Timsina, J., & Dobermann, A. (2006). Integrated assessment of cropping systems in the Eastern Indo-Gangetic plain. *Field Crops Research*, 99(1), 35–47. <https://doi.org/10.1016/j.fcr.2006.03.002> (NAAS : 11.80)

- 4 **Biswas, B.**, Ghosh, T., Chakraborty, D., Banerjee, S., Mandal, B. N., & Saha, S. (2024). Modelling the impact of different irrigation regimes and mulching on strawberry crop growth and water use in the arsenic-contaminated Bengal basin. *Scientific Reports*, 14(1), 9586. <https://doi.org/10.1038/s41598-024-56664-4> (NAAS : 10.60)
- 5 Adhikary, S., **Biswas, B.**, Chakraborty, D., Timsina, J., Pal, S., Chandra Tarafdar, J., Banerjee, S., Hossain, A., & Roy, S. (2022). Seed priming with selenium and zinc nanoparticles modifies germination, growth, and yield of direct-seeded rice (*Oryza sativa* L.). *Scientific Reports*, 12(1), 7103. <https://doi.org/10.1038/s41598-022-11307-4> (NAAS : 10.60)
- 6 Mondal, M., **Biswas, B.**, Garai, S., Adhikary, S., Bandyopadhyay, P. K., Sarkar, S., Banerjee, H., Brahmachari, K., Maitra, S., Mandal, T. K., Gaber, A., Althobaiti, Y. S., Raafat, B. M., & Hossain, A. (2021). Raising Climate-Resilient Embolden Rice (*Oryza sativa* L.) Seedlings during the Cool Season through Various Types of Nursery Bed Management. *Sustainability*, 13(22), 12910. <https://doi.org/10.3390/su132212910> (NAAS : 9.90)
- 7 **Biswas, B.**, Patra, S. R., Timsina, J., De, D., Mishra, B., Chakraborti, R., Patra, A., Mahato, B., Banerjee, P., Ghosh, P. K., Mukherjee, J., Das, S., Sarkar, S., Adhikary, S., Mondal, M., Kanthal, S., Baidya, S., Banerjee, S., Mandal, B., & Ray, B. R. (2019). Climate Change-Resilient Rice Production Technology: A High Yielding, Water Efficient and Remunerative Option for South Asian Farmers. *Global Journal of Agricultural and Allied Sciences*, 1(1), 20–29. <https://doi.org/10.35251/gjaas.2019.003>
- 8 Bandyopadhyay, A., Ghosh(LKN), D. K., **Biswas, B.**, Parameswarappa, M. H., & Timsina, J. (2019). Fertigation Effects on Productivity, and Soil and Plant Nutrition of Coconut (*Cocos nucifera* L.) in the Eastern Indo-Gangetic Plains of South Asia. *International Journal of Fruit Science*, 19(1), 57–74. <https://doi.org/10.1080/15538362.2018.1512439> (NAAS : 8.40)
- 9 **Biswas, B.**, Timsina, J., Garai, S., Mondal, M., Banerjee, H., Adhikary, S., & Kanthal, S. (2023). Weed control in transplanted rice with post-emergence herbicides and their effects on subsequent rapeseed in Eastern India. *International Journal of Pest Management*, 69(1), 89–101. <https://doi.org/10.1080/09670874.2020.1853276> (NAAS : 7.50)
- 10 **Biswas, B.**, Timsina, J., Mandal, K. G., & Naorem, A. (2024). Effects of different irrigation methods and mulching on yield, growth and water use efficiency of strawberry. *New Zealand Journal of Crop and Horticultural Science*. <https://doi.org/10.1080/01140671.2024.2348138> (NAAS : 7.30)



The image shows a handwritten signature in blue ink that reads "Biswas" and the date "07/05/24" written below it.

Signature with Date