

RESUME

NAME : Dr. Ratneswar Ray

DESIGNATION: Professor

CONTACTS:

1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

Professor,
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5. GOOGLE SCHOLAR PROFILE: _____ratneswarbckv@gmail.com_____

6. RESEARCHGATE PROFILE: _____ray.ratneswar@bckv.edu.in_____

7. DATE OF BIRTH: __07__ / __01__ / __1961_____

8. DATE OF JOINING TO THE UNIVERSITY: __27__ / __02__ / __1990_____

9. ACADEMIC PROFILE:

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Soil and Water Conservation	BCKV	1994
MASTER'S	Soil and Water Conservation	BCKV	1988
BACHELOR'S	Agriculture	BCKV	1986

10. EMPLOYMENT HISTORY: (Starting from present position)

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Assistant Prof.	BCKV (AICRP Water Management)	27.02.1990	25.04.1994
Assistant Prof.	BCKV (AICRP Agroforestry)	25.04.1994	26.07.1998
Associate Prof.	BCKV (AICRP on Agril. Drainage)	27.07.1998	31.03.2002
Professor	Dept. Soil & Water Conservation, BCKV	01.04.2002	Continuing

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 Soil and Water Conservation	20.12.2009	19.01.2014

12. AREA OF RESEARCH : (Bulleted list)

Name of the programme executed at a glance :

- On-farm soil, water and crop management in irrigated command.
- Efficacy of varying puddling implements and irrigation methods in rice based cropping system in new and old alluvial Gangetic plains of West Bengal.
- Collection, maintenance and evaluation of multipurpose tree species.
- Studies on intercropping under agroforestry system in red and Lateritic zone of West Bengal
- Evaluation of effect of staggered contour trench on soil losses, moisture conservation and plant performance in agroforestry system.
- Evolving design criteria of Raised bed-pond systems and its implementation and adoption as a non-conventional drainage for sustainable crop production in the ill-drained saline and waterlogged land of West Bengal.
- Modelling concept for prediction of varying waterlogging conditions in the lowland ecosystem of Dankuni basin in West Bengal.
- Assessment and utilization of poor quality surface water for remunerative crop production and soil health restoration.
- Soil aggregation and its relationship with physicochemical properties under various land use system in West Bengal.
- Restricted use of ground water in agriculture; promotion of rainwater harvesting, conservation and recycling for economic utilization in crop production; conjunctive use of harvested rainwater, surface water and ground water for crops and adoption of water saving technologies in crops and cropping system under diverse soil-climatic conditions.
- Identification and adoption of low water requiring crops and varieties and introduction of micro-irrigation techniques like, sprinkler, drip etc in water deficit region.
- Implementation of low-cost technologies incorporation drainage as an integral part for amelioration in adverse saline and waterlogged environment (Aila-hit areas) for sustainable crop production.
- Development of bio-drainage technology for remediation of inland low-lying waterlogged areas for its multiple uses.
- Dynamics of nutrients in relation to the mobility of N, P and K as influenced by drip-fertigation in guava and banana plantation in the lower gangatic alluvial plain.
- Developing capacity of rural sector through percolation of developed technologies at the grass root level and interaction between trainers and trainees.
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13. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	SWC-108	Introduction to Forestry	1+1
	SWC-160	Introduction to Soil erosion and conservation	1+1
POST GRADUATE	SWC-501	Soil erosion and conservation	2+1

	SWC-503	Principles & Management of Physical constraints of soil	2+1
	SWC-552	Restoration of Chemically degraded soils	2+1
	SWC-554	Agricultural hydrology	2+1
	SWC-558	Micro-irrigation in agriculture	2+1
	SWC-603	Water management and crop production	2+1
	SWC-604	Soil moisture conservation in rainfed farming	2+1
	SWC-605	Principle and applications of remote sensing in soil and water conservation	2+0
Ph.D.	SWC-704	Soil and water conservation measures for crop production	2+1
	SWC-752	Irrigation water quality and crop production	2+1

14. NUMBER OF STUDENTS SUPERVISED:

Master's. 28 Doctoral 5

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

16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

Life Member: Indian Association of Soil and Water Conservationist, Dehradun.

Life Member : Soil Conservation Society of India, Pusa, New Delhi.

17. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1.	Augmenting Productivity of Land and Water Resources of a Coastal District in West Bengal	RKVY, GOI	2009-2011	Co-PI
2.	Identification of Suitable Trees and other Vegetation Species for Biodrainage in Dankuni Basin of West Bengal for Sustainable Agriculture	MoWR, GOI	2010-2012	Co-PI

18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
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B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

19. SEMINAR/ SYMPOSIUM/ WORKSHOP etc

A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

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

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

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22. PUBLICATIONS

A. Publication of Research Digest

- Two decades (1982-2002) of research in agricultural land drainage in coastal saline land and inland low-lying land in West Bengal. (pages: 190; Tables: 84; Figures : 19), Published by : ICAR and BCKV.**

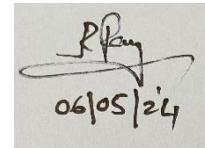
B. Publication of Research Bulletin

- Crop production in waterlogged and saline land (vernacular language) 1994 pages 15 figures published by ICAR and BCKV.**
- One popular article in bengali language: "Sukha marusume Labanakta Dhan chas Padhyati." Published in Home Sikha, Vol 47 (24), 21st December 1999.**

C. Publication of Research Paper

- Patra, S.K., Mahata, N. and **Ray, R.** (2018) Prediction of saturated hydraulic conductivity from soil physical properties under different forest vegetation using multivariate analysis techniques. Int. J. Multi. Res. Dev., 5(11): 48-53 (NAAS: 3.00).
- Sarkar, A., Banik, M., **Ray, R.** and Patra, S.K. (2018) Soil moisture and groundwater dynamics under biodrainage vegetation in a waterlogged land. Int. J. Pure Appl. Biosci., 6(1): 1225-1233 (NAAS: 4.74).

3. Arunabha Pal, Rahul Adhikary, Monisankar Bera, Rohita Garnayak and **Ratnaswar Roy**. (2019) Growing of tube rose with different irrigation treatment under alluvial soil of West Bengal, Journal of Pharmacognosy and Phytochemistry; 8(3): 4534-4538.
4. Bhowmik, A., Khawas, S., Dutta, G., **Ray, R.** and Patra, S.K. (2020). Response of summer cowpea to growth, yield and water use efficiency under different irrigation and nutrient management in lower Indo-Gangetic plains. Int. J. Curr. Microbiol. App. Sci., 9(8): 900-911 (NAAS: 5.38).
5. Khawas, S., Bhowmik, A., **Ray, R.** and Patra, S.K. (2020). Effect of Irrigation and Nutrient Management on Growth, Quality, Yield and Water Productivity of Bitter Gourd in Humid Subtropical Climate. Int. J. Curr. Microbiol. App. Sci., 9(9): 1203-1213 (NAAS: 5.38).
6. Pramanik, S., **Ray, R.**, Patra, S.K., Acharjee, P. and Modak, M.K. (2020). Physicochemical properties of banana soils as influenced by drip-fertigation system. Int. J. Chem. Studies, 8(5): 1902-1906 (NAAS: 5.31).
7. Payel Pal, Nyape Bam, Sanmay Kumar Patra and **Ratneswar Ray** (2021). Deficit Irrigation-Nutrient Coupling on Growth, Yield, Fruit Quality and Water Use Efficiency of Indian Jujube, International Journal of Bio-resource and Stress Management, 12(3):142-150.
8. S. K. Patra, Sanjit Pramanik, **R. Ray**, P. Acharjee and M. K. Modak (2021). Response of Yield, Water Use Efficiency and Economics of Broad Bean to Irrigation and Phosphorous Level in Lower Indo-Gangetic Plains of Eastern India. International Journal of Bio-resource and Stress Management,
9. H. Koiri, S.K. Patra , **R. Ray** and R. Poddar (2024). Evaluation of Soil and Water Conservation Interventions Impact on Water, Crop and Economic Resources Development: A Case Study of Karma Micro-Watershed in Eastern Plateau of India. Indian Journal of Ecology. 51(1): 38-44.

A rectangular box containing a handwritten signature in black ink, which appears to be 'R. Ray', and the date '06/05/24' written below it.

Signature with Date