

# RESUME

**NAME: DR. SUBHABRATA PANDA**

**DESIGNATION: ASSISTANT PROFESSOR in SOIL AND WATER CONSERVATION**

**CONTACTS:**



1. **OFFICIAL ADDRESS FOR CORRESPONDENCE:** Department of  
Soil and Water Conservation, Faculty of Agriculture, Bidhan Chandra  
Krishi Viswavidyalaya (BCKV), Mohanpur, Nadia - 741252, West Bengal.  
&  
AICRP on Agroforestry, RRS, BCKV, Jhargram - 721507, West Bengal.

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4. **ORCID ID:** \_\_\_\_\_ **0000-0002-8916-5180** \_\_\_\_\_

5. **GOOGLE SCHOLAR PROFILE:**

[https://scholar.google.com/citations?view\\_op=list\\_works&hl=id&user=36uqLM0AAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=id&user=36uqLM0AAAAJ)

6. **RESEARCHGATE PROFILE:** <https://www.researchgate.net/profile/Subhabrata-Panda>

7. **DATE OF BIRTH:** 16 / 07 / 1963

8. **DATE OF JOINING TO THE UNIVERSITY:** 11 / 05 / 2016

9. **ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph.D. (Agriculture) in Soil and Water Conservation	Dept. of Agricultural Engineering, F/Ag., Bidhan Chandra Krishi Viswavidyalaya.	1996 (Thesis submitted on 12.05.1993)
	<b>Short courses &amp; Certificate Course:</b> 1) Certificate Course in History of Science (History of Science Cell)	The Asiatic Society (Deemed university), Kolkata, West Bengal.	1994 - 1995
	2) Special Course on "Remote Sensing for Groundwater Exploration" (Department of Continuing Education with Department of Hydrology)	University of Roorkee.	23.01.1991 to 29.01.1991
	3) Refresher Course on "Investigation, Planning and Management of Groundwater" (Department of Continuing Education with Department of Hydrology)	University of Roorkee.	28.03.1989 to 15.04.1989
MASTER'S	M.Sc. (Agriculture) in Soil and Water Conservation	Dept. of Agricultural Engineering, F/Ag., Bidhan Chandra Krishi Viswavidyalaya.	1988
BACHELOR'S	B.Sc. (Agriculture) Honours with Agricultural Chemistry & Soil Science, Agricultural Engineering	Faculty of Agriculture, Bidhan Chandra Krishi Viswavidyalaya.	1985

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

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Assistant Professor in Soil and Water Conservation	Bidhan Chandra Krishi Viswavidyalaya	11.05.2016	Continuing
Assistant Agricultural Chemist in the WBAS (Research)	State Agricultural Research Institute, Tollygunj, O/o the Agricultural Chemist West Bengal, Department of Agriculture, Government of West Bengal.	11.03.2003	10.05.2016

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

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1.	Officer-in-Charge, AICRP on Agroforestry <b>Additional Charge</b>	20.01.2017	30.09.2018
2.	In-Charge, RRS (R & L Zone), RRS, BCKV, Jhargram. <b>Additional Charge</b>	30.08.2017	26.03.2021
3.	In-Charge of Mobile Soil Testing Laboratory, Tollygunj, Kolkata, Govt. of West Bengal, Department of Agriculture, State Agriculture Research Institute, Tollygunj, Kolkata under Agricultural Chemistry Section.	11.03.2003	10.05.2016
4.	Soil Chemist ex. Officio Assistant Agricultural Chemist with Soil Survey Laboratory, Tollygunj, Kolkata, <b>Additional Charge</b> (Govt. of West Bengal, Directorate of Agriculture with Department of Agriculture)	31.01.2004	06.02.2006
5.	Supporting Officer with National Mission for Sustainable Agriculture (NMSA) - Soil Health Management (SHM) Nodal Cell, West Bengal - <b>Additional Charge</b> (Govt. of West Bengal, Directorate of Agriculture with Department of Agriculture)	16.04.2015	10.05.2016

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

- Carbon sequestration through agroforestry
- Impact of alley crops in agroforestry systems on soil properties
- Rainfed crop cultivation under agroforestry
- Reviews on hydrological research
- Village-level rainwater harvesting for agril. water management planning
- Impact of mulching on soil properties and crop production
- Impact of agricultural land use practices and monsoon at micro watershed level on soil properties including earthworm population and crop production
- Monitoring of soil properties in farmers' fields including *Aila* (24.05.2009) affected plots
- On farm trial on crop response to plant nutrients
- Monitoring of carbon sequestration in agricultural soils
- Monitoring of quality of irrigation water

**13. COURSES ASSOCIATED WITH:**

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	-	-	-
POST- GRADUATE	SWC 649	Seminar I	1 + 0
	SWC 699	Seminar II	1 + 0
	SWC 700	Master's Research	0 + 20
Ph.D.	SWC 799	Seminar I	1 + 0
	SWC 849	Seminar II	1 + 0
	SWC 999	Seminar II	1 + 0
	SWC 1000	Doctoral Research	0 + 45

**14. NUMBER OF STUDENTS SUPERVISED:**

Master's. 05 Doctoral 02

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

State Agricultural Research Institute, Directorate of Agriculture, Govt. of West Bengal; All India Soil & Land Use Survey, Govt. of India.

**16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES**

Indian Society of Agroforestry, ICAR-CAFRI, Jhansi (U.P.).  
 Indian Association for the Cultivation of Science (IACS), Kolkata  
 Indian Association of Hydrologists, Roorkee  
 Soil Conservation Society of India, New Delhi  
 Indian Institute of Geomorphologists, Allahabad  
 Indian Society of Coastal Agricultural Research, Canning Town.

## 17. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1.	“Transfer of Innovative Fruit Based Agroforestry Models for Crop Production & Poverty Alleviation of Farming Community in Red & Laterite Zone of West Bengal”	<b>RIDF-XX Project, Govt. of West Bengal.</b>	<b>Completed</b>	<b>PI</b>

## 18. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

### A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Training of Line Staff and Training of Trainers (TOT) Universalization of Soil Health Card under NMSA in West Bengal State	14.10.2015 to 27.11.2015	Alipurduar, Coochbehar, Jalpaiguri, Howrah.	Resource person
2.	Training on Rapid and Routine Soil Testing	14.02.2011 to 18.02.2011	Soil Testing Laboratory, Tollygunge, Dept. of Agriculture, Govt. of West Bengal, Kolkata – 700040.	Faculty
3.	UNICEF sponsored Training Workshop on “Rural and Urban Water Supply System”	13.01.1997 to 24.01.1997	Jadavpur University	Member of the Core Committee and an Instructor to field visit
4.	Deliberation on ‘Soil fertility and management under different agroclimatic regions’ in two week Short Course Training Programme on “Soil and Land Resources Inventory for Integrated Watershed Management”, organised by the All India Soil & Land Use Survey (AISLUS), presently SLUSI, Govt. of India, Kolkata.	22.08.2005	AISLUS (presently SLUSI), Kolkata	Lecturer
5.	Awareness campaign on ‘Rain and Water and Soil Conservation’, organised by West Bengal Citizens Forum, 17 R.N. Mukherjee Road, Kolkata – 700001.	04.06.2004	Masjid Bati, Parbati High School, Basanti Block, South 24 Parganas, W. Bengal.	Resource person

**B. ATTENDED**

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	21 days ICAR sponsored Winter School on 'Agroforestry for Climate Change Mitigation, Biodiversity Conservation and Resilience in Agroecological Systems: Current Trends and Future Strategies'	03.12.2019 to 23.12.2019	Kerala Agricultural University, Thrissur, Kerala.	Participant
2.	21 days ICAR sponsored CAFT training Programme on 'Advances in ICT in Agricultural Extension'	04.01.2018 to 24.01.2018	Bihar Agricultural University, Sabour, Bhagalpur.	Participant

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

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	International Conference on Crisis Management in Water & Environment	15.07.2005 to 16.07.2005	Science City, Kolkata	Member of the Publication Sub-Committee
2.	International Conference on Water related Disasters	05.12.2002 to 06.12.2002	Science City, Kolkata	Member of the Publication Sub-Committee
3.	All India Seminar on Water Vision for the 21 <sup>st</sup> Century	07.01.2000	West Bengal Regional Centre, Indian Association of Hydrologists, Calcutta	Joint Secretary, Organising Committee
4.	All India Seminar on Development of Water Resources in India during 50 years since independence	26.06.1998	West Bengal Regional Centre, Indian Association of Hydrologists, Calcutta	Joint Secretary, Organising Committee
5.	All India Seminar on Small Watershed Development	15.02.1996	West Bengal Regional Centre, Indian Association of Hydrologists, Calcutta	Joint Secretary, Organising Committee
6.	National Seminar on the Role of Soil & Water Conservation in Modern Agriculture	23.02.1990 to 24.02.1990	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia.	Joint Secretary, Organising Committee

## B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	EGU General Assembly 2020	05.05.2020	Germany Online	Research paper presented
2.	International Training on Ecosystem Services in Agroforestry in the context of Payment of Ecosystem Services: Concept, Theory and Practice (ICAR-ICRAF Collaborative Work Plan)	20.07.2017 to 24.07.2017	CAFRI, Jhansi	Participated
3.	1st International Conference on “Bio-resource, Environment and Agricultural Sciences (ICBEAS)”	06.02.2017	Institute of Agriculture, Visva- Bharati, Santiniketan, West Bengal	Research paper presented

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

- **2022 The book ‘Soil and Water Conservation for Sustainable Food Production’, reviewed in the International Union of Soil Sciences (iuss) Bulletin 141** December 2022, page 76.  
[https://www.iuss.org/index.php?rex\\_media\\_type=download&rex\\_media\\_file=iuss-bulletin141\\_vollbildmodus.pdf](https://www.iuss.org/index.php?rex_media_type=download&rex_media_file=iuss-bulletin141_vollbildmodus.pdf)  
**and also reviewed as one of the 'New publications'** by the International Union of Soil Science in its IUSS Alert 209 (November 2022) as accessed from the following website. <https://www.iuss.org/publications/iuss-alerts-2021-2022/iuss-alert-209-november-2022/>
- **2022 Expert Reviewers of the Working Group II Contribution to the IPCC Sixth Assessment Report.** In: Climate Change 2022: Impacts, Adaptation and Vulnerability, Intergovernmental Panel on Climate Change: Geneva, CH.  
<https://www.ipcc.ch/report/sixth-assessment-report-working-group-ii/>
- **2019 One of the contributors for identifying Twenty Three Unsolved Problems in Hydrology**, an initiative supported by IAHS, EGU, AGU and IAH and the outcome published as follows: Blöschl G. et al. (including Panda S. with 205 contributors). 2019. Twenty Three Unsolved Problems in Hydrology (UPH) – a community perspective. HYDROLOGICAL SCIENCES JOURNAL 2019, VOL. 64, NO. 10, 1141–1158.  
<https://doi.org/10.1080/02626667.2019.1620507>
- **1995 Certificate of Honour**, Workshop on River Hydraulics, Department of Applied Mechanics & Drawing. Bengal Engineering College (Deemed University), Howrah, West Bengal, 6 to 8 September 1995

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

- 2022 Expert Reviewers of the Working Group II Contribution to the IPCC Sixth Assessment Report. In: Climate Change 2022: Impacts, Adaptation and Vulnerability, Intergovernmental Panel on Climate Change: Geneva, CH.  
<https://www.ipcc.ch/report/sixth-assessment-report-working-group-ii/>

- 2019 One of the contributors for identifying Twenty Three Unsolved Problems in Hydrology, an initiative supported by IAHS, EGU, AGU and IAH and the outcome published as follows: Blöschl G. et al. (including Panda S. with 205 contributors). 2019. Twenty Three Unsolved Problems in Hydrology (UPH) – a community perspective. HYDROLOGICAL SCIENCES JOURNAL 2019, VOL. 64, NO. 10, 1141–1158.  
<https://doi.org/10.1080/02626667.2019.1620507>

## 22. PUBLICATIONS

### A. BOOKS

- **Panda** Subhabrata (2022) Soil and Water Conservation for Sustainable Food Production. In: Parisi Salvatore (Ed.) Book series: SpringerBriefs in Molecular Science (BRIEFSMOLECULAR), Part of the book sub series: Chemistry of Foods (BRIEFSCHEFO). Springer Cham, Springer Nature Switzerland AG 2022. Softcover ISBN978-3-031-15404-1. Pages XV, 108. <https://doi.org/10.1007/978-3-031-15405-8>

### B. BOOK CHAPTERS (Best 10)

- Das P and **Panda** S (2022) Ecosystem management of degraded red and lateritic soil through agroforestry. In: Jatav H S and Rajput V D (Ed.) Ecosystem Services: Types, Management and Benefits. In (Series): Agriculture Issues and Policies (DOI: <https://doi.org/10.52305/PFZA6988>). Nova Science Publishers, Inc., New York – 11788, USA. ISBN: 978-1-68507-747-1. Chap.18: pp. 327-349.

Available from:

<https://novapublishers.com/shop/ecosystem-services-types-management-and-benefits/>

- Das P and **Panda** S (2022). GIS-Supported Database Towards Transforming Monocropped Areas for Yearlong Cultivation in Paschim Medinipur, West Bengal, India. In: Bhunia G S, Chatterjee U, Lalmalsawmzauva K, Shit P K (Ed.) Anthropogeomorphology – A Geospatial Technology Based Approach. In (Series): Geography of the Physical Environment. ([https://doi.org/10.1007/978-3-030-77572-8\\_18](https://doi.org/10.1007/978-3-030-77572-8_18)). Springer, Switzerland. ISBN: 978-3-030-77571-1 & -77572-8. Chap. 18 : pp. 361-381.

Available from:

[https://link.springer.com/chapter/10.1007/978-3-030-77572-8\\_18](https://link.springer.com/chapter/10.1007/978-3-030-77572-8_18)

- **Panda** S (2022) Pluralistic Approaches in Soil Health Management towards Sustainable Agriculture. In: Panda C K, Sohane R K, Paswan A and Roy Choudhury S (Ed.). Pluralistic Approaches in Sustainable Agriculture Past, Present and Future. New Delhi Publishers, India. Part II, Chapter 6: pp. 59 – 77.

Available from:

<https://www.ndpublisher.in/ndpbookpage.php?book=394#>

- **Panda** S, Das N C and Dhara P K (2021) Sustainable Watershed Management through Agro-ecosystem Approach in Indian Context. In: Goyal R K and Gaur M K (Ed.) Perspectives in Natural Resources Management-Watershed-based Approach. Central West Publications, New South Wales, 2800 Australia, Chap. 1: pp. 1-18.

Available from:

<https://centralwestpublishing.com/product/perspectives-in-natural-resources-management-watershed-based-approach-hardcover/>

● Dhara P K and **Panda S** (2019) Agroforestry Model: Gmelina and Eucalyptus based Agri-silvi-horticultural System. In: Handa A K, Dev I, Rizvi R H, Kumar N, Ram A, Kumar D, Kumar, A, Bhaskar S, Dhyani S K and Rizvi J (Ed.) Successful Agroforestry Models for Different Agro-Ecological Regions in India. Jointly published by the Central Agroforestry Research Institute (CAFRI), Jhansi, and the South Asia Regional Programme (based in New Delhi) of World Agroforestry (ICRAF). Chap. AER 11 - Eastern Plateau (Chattisgarh): 11.1: pp. 107 – 112.

Available from:

<http://apps.worldagroforestry.org/downloads/Publications/PDFS/B17980.pdf>

● Dhara P K and **Panda S** (2019) Agroforestry Model: Dysoxylum and Kadamb based Agri-silvi-horticultural System. In: Handa A K, Dev I, Rizvi R H, Kumar N, Ram A, Kumar D, Kumar, A, Bhaskar S, Dhyani S K and Rizvi J (Ed.) Successful Agroforestry Models for Different Agro-Ecological Regions in India. Jointly published by the Central Agroforestry Research Institute (CAFRI), Jhansi, and the South Asia Regional Programme (based in New Delhi) of World Agroforestry (ICRAF). Chap. AER 15 - Bengal and Assam Plains: 15.2: pp. 129 – 135.

Available from:

<http://apps.worldagroforestry.org/downloads/Publications/PDFS/B17980.pdf>

● Dhara P K and **Panda S** (2019) Agroforestry Model: Alder based Agri-silvi-horticultural System. In: Handa A K, Dev I, Rizvi R H, Kumar N, Ram A, Kumar D, Kumar, A, Bhaskar S, Dhyani S K and Rizvi J (Ed.) Successful Agroforestry Models for Different Agro-Ecological Regions in India. Jointly published by the Central Agroforestry Research Institute (CAFRI), Jhansi, and the South Asia Regional Programme (based in New Delhi) of World Agroforestry (ICRAF). Chap. AER 17 - North Eastern Hills (Purvanchal): 17.1: pp. 152 – 157.

Available from:

<http://apps.worldagroforestry.org/downloads/Publications/PDFS/B17980.pdf>

● **Panda S**, Dhara P K, Sarkar S and Das N C (2018) Agroforestry – a multipurpose multistoreyed renewable plant treasure with medicinal values giving multireturn for livelihood and benefits over climate change. In: Pandey C B, Gaur M K and Goyal R K (Ed.) Climate Change and Agroforestry ADAPTATION, MITIGATION AND LIVELIHOOD SECURITY. Edition: First. Chap. 35: 627 – 637.

#### **RESEARCH PAPERS (Best 10)**

Das P, **Panda S** and Dhara PK (2023) Effect of fruit-based agroforestry systems on wood growth, fruit yield, intercropping performance and improvement in soil fertility of red and lateritic soils of Jhargram in West Bengal, India. *Indian Journal of Agroforestry* 25(2): 49-60 (2023).

Saren S, Das P and **Panda S** (2023) GIS-remote sensing-based village-level hydrological balance approach for agricultural water planning. *Nova Geodesia*, June 2023. 3(2):123. DOI: 10.55779/ng32123.

Das P and **Panda S** (2023) GIS and remote sensing based reconnaissance of vegetation and agroforestry areas in South 24 Parganas, West Bengal, India. *International Journal of Advanced Research*, February 2023, Online ISSN: 2320-5407. 11(01):817-843. DOI: 10.21474/IJAR01/16087

Blöschl G, Bierkens M F P, Chambel A, Cudennec C, Destouni G, Fiori A, Kirchner J W, ... **Panda S**.....et al. (2019) Twenty-Three Unsolved Problems in Hydrology (UPH) – a Community Perspective. *Hydrological Sciences Journal*, July 27, 2019. 64, (10): 1141–58.  
<https://doi.org/10.1080/02626667.2019.1620507>



Sarkar S, Panda S, Yadav K K and Kandasamy P (2018) Pigeon Pea (Cajanus Cajan) an Important Food Legume in Indian Scenario – A Review. LEGUME RESEARCH - AN INTERNATIONAL JOURNAL, October 10, 2018, LR-4021. 43 (5): 601-610. <https://doi.org/10.18805/LR-4021>.

Woldeyohannes Y Y and Panda S (2017) Studies on Nature and Properties of Salinity across Globe With a View to its Management - A Review. Global Journal of Human – Social Science (B) 17(1) Version 1: 31 – 37.

Available from:

[https://globaljournals.org/GJHSS\\_Volume17/E-Journal\\_GJHSS\\_\(B\)\\_Vol\\_17\\_Issue\\_1.pdf](https://globaljournals.org/GJHSS_Volume17/E-Journal_GJHSS_(B)_Vol_17_Issue_1.pdf)

Panda S, Roy G B and Ghosh R K (1990) Detection of agroclimatic feasibility for transforming an apparently water deficit monocropped area to a yearlong cultivable tract in Contai, Midnapore, W. Bengal. Indian Journal of Landscape Systems and Ecological Studies. 13(2): 174 - 176.

<https://doi.org/10.13140/RG.2.2.14316.41600>

Subhabrata Panda 29/04/2024

Signature with Date