RESUME

NAME: **Dr Manoj Kumar Nanda**
DESIGNATION: **Professor**

CONTACTS:

1. **OFFICIAL ADDRESS FOR CORRESPONDENCE:**
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4. **ORCID ID:** https://orcid.org/0000-0003-2557-2657
5. **GOOGLE SCHOLAR PROFILE:**
   https://scholar.google.com/citations?user=rAXDVXMAAAAJ&hl=en
6. **RESEARCHGATE PROFILE:** https://www.researchgate.net/profile/Mk-Nanda
7. **DATE OF BIRTH:** **15/08/1968**
8. **DATE OF JOINING TO THE UNIVERSITY:** **28/03/2000**

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9. **ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	**Ph.D. in Agronomy**	**BCKV**	**1998**
MASTER'S	**M.Sc.(Ag.) in Agronomy**	**Visva Bharati**	**1993**
BACHELOR'S	**B.Sc.(Ag.)**	**OUAT**	**1991**

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

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Professor	Dep. of Agril. Met. & Physics, BCKV	28/03/2015	
Assistant Professor/ Associate Professor	-Do-	01/01/2015	27/03/2015
Lecturer (Research)	AICRP on Agrometeorology, BCKV	26/06/2000	31/12/2001
Lecturer (Research)	Agromet. Advisory Services, BCKV	28/03/2000	25/06/2000

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

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From	To
	NSS Programme Officer	2004	2016
	Nodal Officer, NISAGENET	2015	2016
	Head, Ag. Met. & Physics	2018	2022
	ICAR Nodal Officer	2020	2022

12. AREA OF RESEARCH: (Bulleted list)

- Micrometeorology
- Remote Sensing
- Geographical Information System

13. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	AMP-252	Agrometeorology and Climate Change	2(1+1)
	AGMP-355	Geo-informatics and Nanotechn-ology for Precision Farming	2(1+1)
	SWE-483	Remote Sensing and GIS Applications	3(2+1)
POST GRADUATE	AGM-501	Fundamentals of Meteorology	3(2+1)
	AGM-504	Agrometeorological Measurements and Instrumentation	3(1+2)
	AGM-505	Crop Micrometeorology	3(2+1)
	AGM-510	RS and GIS Application in Agricultural Meteorology	3(2+1)
Ph.D.	--	NIL	

14. NUMBER OF STUDENTS SUPERVISED:

Master's: Fourteen (14); **Doctoral: Seven (7)**

15. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	Optimization of Meteorological Resources for Sustainable Produc-tion of pigeon pea based cropping system under upland condition	Adaptive Research Council, Govt of WB	Completed	PI
2	Energy and Mass Exchange in Vegetative System	ISRO, Govt. of India	Completed	PI
3	Development of Weather Monit-oring Network for Effective Weather Service in Gangetic WB	RKVY, Govt. of India	Completed	PI

	with special Emphasis on Coastal Region			
4	Energy Water Balance and Crop Growth Monitoring using Satellite Data	ISRO, Govt. of India	Completed	Co-PI
5	Cropping systems intensifications in the salt-affected coastal zone of Bangladesh and West Bengal, India	ACIAR, Australia	Completed	Co-PI
6	Mitigating risk and scaling out profitable cropping system intensification practices in the salt-affected coastal zones of the Ganges Delta	ACIAR, Australia	Completed	Co-PI

16. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME ORGANIZED NIL

17. SEMINAR/ SYMPOSIUM/ WORKSHOP etc. ORGANIZED: NIL

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

Member of the Expert Committee, Earth Science and Geoinformatics, Department of Science & Technology and Biotechnology, Govt. of West Bengal

19. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY):

Ongoing collaborative research programme with Australian Centre for International Agricultural Research (ACIAR)

20. PUBLICATIONS

A. BOOKS NIL

B. BOOK CHAPTERS (Best 5):

Ghosh, A., **Nanda, M.K.**, Sarkar, D., Sarkar, S., Brahmachari, K., Mainuddin, M. (2025). Assessing the Seasonal Dynamics of Surface Water Resources Using Satellite-Based Remote Sensing: A Case Study in Indian Sundarbans. Surface, Sub-Surface Hydrology and Management. pp.: 99-121. (Pub). Springer, Cham. https://doi.org/10.1007/978-3-031-62376-9_5

Ghosh, A., Mondal, M., Sarkar D. and **Nanda, M.K.** (2024) Chapter 15 - Comparative study of remote sensing-derived indices for meteorological and agricultural drought monitoring: a review. Modern Cartography Series, Volume 12, pp 381-412 (Pub) Academic Press https://doi.org/10.1016/B978-0-443-23890-1.00015-3

Saha, S., Mridha, N., Chakraborty, D., Chatterjee, D., **Nanda, M.K.**, Dhanya, M.S., Swain, C.K., Das, S.R. and Banerjee, K., (2024). Monitoring and impact assessment of climate change: eddy covariance technique. In Climate Change Impacts on Soil-Plant-Atmosphere Continuum (pp. 595-630). (Pub) Springer Nature Singapore. https://doi.org/10.1007/978-981-99-7935-6_22

Roy, K., Goswami, R., Dutta, S., Ray, K., Sarkar, S., Brahmachari, K., **Nanda, M. K.**, Mainuddin, M., Banerjee, H., Timsina, J. and Majumdar, K., (2022). Researching From a Distance: Mapping COVID-19 and Cyclonic Storm Affected Agri-Food Systems by Integrating Qualitative Research and Fuzzy Cognitive Mapping. SAGE Publications, Limited. DOI: https://dx.doi.org/10.4135/9781529604092

Nanda, M. K., Giri, U., and Bera, N. (2018). Canopy temperature-based water stress indices: potential and limitations. Advances in crop environment interaction, 365-385. (Pub) Springer Nature, Singapore, DOI: https://doi.org/10.1007/978-981-13-1861-0_14

C. RESEARCH PAPERS (Best 10)

Nanda, M.K., Sarangi, S.K., Glover, M., Sarkar, D., Ghosh, A., Mondal, M., Peña-Arancibia, J., Mainuddin, M. (2025) Soil conductance classification for crop performance assessment using electromagnetic induction and geospatial techniques in coastal region of Indian Sundarbans, *Geoderma Regional*, **41**: e00951
DOI: https://doi.org/10.1016/j.geodrs.2025.e00951 [**NAAS: 9.10]**

Mukhopadhyay, S., Kundu, K., **Nanda, M.K.**, Mandal, S.N., Mukherjee, K., Roy Barman A. and Dutta, S. (2025). Spectral insights into symptom development and biochemical changes during the advancement of cucumber downy mildew disease. Journal of Plant Pathology
DOI: https://doi.org/10.1007/s42161-025-01883-5 **[NAAS: 8.50]**

Mondal, M., **Nanda, M.K.**, Peña-Arancibia, J.L., Sarkar, D., Ghosh, A., Goswami, R., Mukherjee, A., Saha, A., Brahmachari, K., Sarkar, S. and Mainuddin, M., (2024) Assessment of inundation extent due to super cyclones Amphan and Yaas using Sentinel-1 SAR imagery in Google Earth Engine. Theoretical and Applied Climatology, 155, 5659–5675
DOI: https://doi.org/10.1007/s00704-024-04948-0 **[NAAS: 9.40]**

Dutta, D., **Nanda, M.K.**, Kundu, R., Tewari, S., Jain, O., Bhadra, B.K., Khemka, T., Naik, A. and Chakraverty, A. (2024) El Nino Southern Oscillation and Indian Ocean Dipole teleconnection to the wetness and drought trend of Bhutan using time series (1983-2022) PERSIANN rainfall data. International J Applied Earth Observation and Geoinformation. **135**: 104228.
DOI: https://doi.org/10.1016/j.jag.2024.104228 **[NAAS: 13.60]**

Manna, T., **Nanda, M.K.**, Sarkar, S., Mukherjee, A., Ray, M., Alkeridis, L.A., Sayed, S., Gaber, A., Hossain A. (2024) Infrared thermometry-based stress indices as indicators of yield performance and seasonal evapotranspiration in potato plants grown under different moisture and potassium regimes. *Scientia Horticulturae*, **330**, 113086
DOI: https://doi.org/10.1016/j.scienta.2024.113086 **[NAAS: 10.30]**

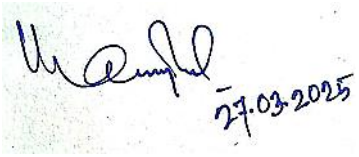
Ghosh, A., **Nanda, M.K.**, Sarkar, D., Sarkar, S., Brahmachari, K. and Mainuddin, M. (2023) Kharif rice growth and area monitoring in Gosaba CD block of Indian Sundarbans region using multi-temporal dual-pol SAR data. *Environment, Development and Sustainability*. **27:** 6331–6348
DOI: https://doi.org/10.1007/s10668-023-04138-4 **[NAAS: 10.90]**

Ghosh, A., **Nanda, M.K.**, Sarkar, D., Sarkar S. Brahmachari, K. and Mainuddin, M. (2023) Assessing the cropping intensity dynamics of the Gosaba CD block of Indian Sundarbans using satellite-based remote sensing. *Environment, Development and Sustainability* 26: 6341–6376
DOI: https://doi.org/10.1007/s10668-023-02966-y **[NAAS: 10.90]**

Kundu, R., Dutta, D., **Nanda, M.K.** and Chakrabarty, A. (2021) Near Real Time Monitoring of Potato Late Blight Disease Severity using Field Based Hyperspectral Observation Smart Agricultural Technology, *Smart Agricultural Technology*, **1***:* 100019,
DOI: https://doi.org/10.1016/j.atech.2021.100019 **[NAAS: 12.3]**

Sattar, A., Khan, S. A., Banerjee, S., and **Nanda, M. K.** (2019). Assessing sowing window and water availability of rainfed crops in eastern Indian state of Bihar for climate smart agricultural production. Theoretical and Applied Climatology, 137(3), 2321-2334. DOI: https://doi.org/10.1007/s00704-018-2741-9 **[NAAS: 9.40]**

Sarkar, S., **Nanda, M. K.**, Biswas, M., Mukherjee, A., & Kundu, M. (2009). Different indices to characterize water use pattern of irrigated cauliflower (*Brassica oleracea* L. var. botrytis) in a hot sub-humid climate of India. Agricultural Water Management, **96**(10), 1475-1482. DOI: https://doi.org/10.1016/j.agwat.2009.05.004 **[NAAS: 11.90]**



Signature with Date