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EDUCATIONAL QUALIFICATIONS:

Degree	Year of Passing	University/ Institution	Marks/ OGPA
B. Tech (Agricultural Engineering)	2012	North Eastern Regional Institute of Science and Technology	72.8%
M. Tech (Soil and Water Conservation Engineering)	2014	North Eastern Regional Institute of Science and Technology	85.6%
Ph.D (Soil and Water Conservation Engineering)	2018	North Eastern Regional Institute of Science and Technology	76 %

DISSERTATION TITLE

Identification and Characterization of Meteorological Drought in Different Agro-Climatic Zones of Assam

RESEARCH PAPERS:

1) **Hasan,W., Gupta,S., Roy,R., Sing. Kh.C., Hangshing, L., Lairenjam, C.,Kaur, U., Dey,S., Moursy,A.R.A, Yadav,K. and Kumar,D.(2024).** Transforming Agriculture: Harnessing Modern Intelligent Tools and Cybernetics for Innovation. African Journal of Biological Sciences. 6(9). https://doi.org/ 10.33472/AFJBS.6.9.2024.4528-4546.
2) Mishra, N., **Hangshing, L.,** Kadam, D.S., Tapang, T. and Shameena, S. **(2024).** Advances in Vertical Farming Opportunities and Challenges. Journal of Scientific Research and Reports. 30(8): 212-222. ISSN: 2320-0227
3) **Lairenjam, C. and Hangshing, L. (2023**). Drought assessment in Kohima, Nagaland, India, using the standardized precipitation index (SPI). *AIP Conference Proceedings 2690, 020017*. https://doi.org/10.1063/5.0119452.
4) **Kichu,R., Dutta, M., Nayak,R.C. and Hangshing,L.(2022).** Quantitative Morphometric

Analysis of Dzumah Watershed of Upper Dhansiri, Nagaland, India. *Indian Journal of Ecology*. 49(3): 837-842. DOI: https://doi.org/10.55362/IJE/2022/3604

5) **Hangshing,L. , Vijayan,D.S. and Sivasuriya,A.(2022).** A study of rainwater harvesting for sustainable water resource management in Nagaland, Northeast India – a review. *Acta Sci. Pol. Architectura* **21 (4) 2022, 53–61**

6) **Kandasamy, P.,Chakraborty,I. and Hangshing, L (2022).** Analysis of energy consumption, heat and mass transfer, drying kinetics and effective moisture diffusivity during foam-mat drying of mango in a convective hot-air dryer. *Biosystems Engineering. Vol 219, pp 85-102.*

7) **Hangshing, L.and Dabral, P. P. (2018).** Identification of meteorological drought trends for agro- climatic zones of Assam. *Proceeding of International seminar of Land and Water Issues in South East Asia: Status, Challenges and Opportunities.*pp11-24.

8) **Hangshing, L. and Dabral, P.P (2018).** Multivariate frequency analysis of meteorological drought usingcopula. *Water Resourc Manage.https://doi.org/10.1007/s11269-018-1901-0.*

9) **Hangshing, L. and Dabral, P. P. (2017**). Meteorological drought analysis using percentage of departureof actual rainfall from normal for Hill zone - An agroclimatic zone of Assam. *Natural Resource Management for Climate Smart Sustainable Agriculture* Editors: Sanjay Arora, Sanjay Swami, Suraj Bhan), *Soil Conservation Society of India*. pp407-418.

10) **Hangshing, L. and Dabral, P. P. (2017).** Characterisation of Meteorological drought using Standard Precipitation Index. *Natural Resource Management for Climate Smart Sustainable Agriculture* (Editors: Sanjay Arora, Sanjay Swami, Suraj Bhan), *Soil Conservation Society of India*. pp391-406.

11) **Dabral,P.P, and *Hangshing, L.*(2017).** Analysis of change point of rainfall and its trend in Doimukh (Itanagar), Arunachal Pradesh. *Journal of Soil and Water Conservation, Vol 16, No 4, pp 370-379,*2017.

12) **Hangshing, L., and Dabral, P.P (2017).** Characterization, trend assessment and copula based bivariate modeling of meteorological drought for central Brahmaputra valley- an agroclimatic zone of Assam, *Journal of Indian Water Resources Society. Vol 16, No 4, pp370-379*

13) **Dabral P.P, Jhajharia D, Mishra P, HangshingL, Doley B.J, (2014).** Time Series Modelling ofPan Evaporation: A Case Study in the Northeast India, *Global NEST Journal, Vol 16, No 2, pp 280-292,2014.*

14) ***Hangshing, L.,*Mishra, P. and Bhadra, A. (2014).** Estimation of Optimum Number of Rain Gauges for Arunachal Pradesh. *Proceeding of National Conference on Emerging Technology Trends in Agricultural Engineering.* pp428-435.

PARTICIPATION ON NATIONAL /INTERNATIONALCONFERENCE:

1) Presented a paper on "**Analyzing Surface Water Dynamics and Environment Interaction in Kohima District, Nagaland using Remote sensing and Google Earth Engine"** at the 6th International Conference on cutting -Edge Solutions in Science -Agriculture , Technology, Engineering and Humanities (CSATEH-2024).

2) Presented a paper on "**An assessment of Biomass Briquetting Technologies in Rural Development in West Bengal**".(National conference on "Natural Fibre for Sustainable Societal Development "scheduled during January 03-04, 2023 at ICAR-National Institute of Natural Fibre Engineering & Technology, Kolkata).

3) Presented on "**Temporal and Spatial Analysis of Drought Characteristics in Birbhum District, West Bengal using Standardized Precipitation Evapotranspiration Index at Different Time Scales** " (**5th International Conference on "Climate Change and Its Impact (CCI-2023) June 9-11, 2023** in Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Srinagar, J&K., India).

4) Presented a lead paper on **Identification of meteorological drought trends for agroclimatic zones of Assam**. *(International seminar on Land and Water issues in South East Asia: Status, Challenges and Opportunities)*. Held during 18thto 20thJanuary, 2018 at NERIWALM, Tezpur.

5) Presented a **Meteorological drought analysis using percentage departure of actual rainfall from normal for Hill zone- an agroclimatic zone of Assam**. (Poster presentation26thNational conference of SCSI on "*Natural Resource Management for Climate Smart Sustainable Agriculture"11thto13thSeptember 2017*, CPGS, CAU (I), Barapani, ShillongMeghalaya)

6) Presented a paper on **Characterization of meteorological drought using standardized precipitation Index**. (Lead paper presented - 26th National conference of SCSI on "*Natural Resource Management for Climate Smart Sustainable Agriculture"11thto13th September 2017*, CPGS, CAU (I),Barapani, Shillong Meghalaya)

7) Presented a paper on Estimation of **Optimum Number of Rain Gauges for Arunachal Pradesh** in *National Conference on Emerging Technology Trends in Agricultural Engineering*, held at NERIST during 7th to 9thNovember,2014.