

CURRICULUM VITAE

Personal Details

Name : Liza G. Kiba
Present Address : H/No. 157 Lhomithi Village
Signal Basti, Dimapur
Nagaland: 797112
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Academic Qualification

B. Tech – 7.62/10 CGPA
2009–2013
Agricultural Engineering
School of Engineering Technology and Management
(SETAM), Nagaland University

Thesis Title: *Assessment of energy use for paddy cultivation in Dimapur district of Nagaland*

M. Tech – 4.56/5 CGPA
2013–2015
Soil and Water Conservation Engineering
North Eastern Regional Institute of Science and Technology
(NERIST)

Thesis Title: *Generation of NDVI signature plots for major vegetation covers of Arunachal Pradesh from MODIS NDVI product*

NET Qualified,
2018
ASRB
Discipline – Land and Water Management Engineering

Ph.D.
2016–2022
**Soil and Water Conservation Engineering
(Hydrological Modelling)**
North Eastern Regional Institute of Science and Technology
(NERIST)

Thesis Title: *Assessment of variability of snowmelt runoff under changing climate in the Indian Himalayan region.*

Work Experience

Position	Duration	Institution
Guest Faculty April 2025–till date	10 Months	Dept. of Agricultural Engineering & Technology School of Engineering (SET), Nagaland University
Project Associate March 2024–April 2025	1 Year	Dept. of Agricultural Engineering School of Agricultural Science (SAS), Nagaland University <ul style="list-style-type: none">Project Title: Scientific Study on Zabo Farming System: A Farmer-Managed Traditional Irrigation System

Guest Faculty May 21- Dec. 23	2 Yrs. 7 Months	(FMST) practiced in the hills of Nagaland <i>Sponsored by IKS Division, Ministry of Education, GOI</i> Dept. of Agricultural Engineering School of Agricultural Science (SAS), Nagaland University
Teaching Assistant 2018–2020	3 Years	Dept. of Agricultural Engineering, NERIST <i>Taught UG courses at NERIST while pursuing Ph.D.</i>
SRF 2015–2016	1 Year	Dept. of Agricultural Engineering, NERIST <ul style="list-style-type: none"> Project Title: Development of Hydrological Module for Snowmelt Runoff in the Himalayan Region <i>Sponsored by Space Application Centre (ISRO)</i>

Publications

Articles

- Lairenjam, C., Verma, A.K., Jha, K.K., Ram, S., and **Kiba, L.G.** 2025. Ruza: An Indigenous Farming System Practiced in the Hills of Nagaland, North-East India. *Environment and Ecology*. 43 (2): 535 – 541 DOI: <https://doi.org/10.60151/envec/BAHW3246>
- **L.G. Kiba**, N. Chiphang, P. Mishra, A. Bandyopadhyay, and A. Bhadra. 2023. Response of two selected river basins for Eastern and Western Himalayan regions to climate change in terms of streamflow and snow parameters. *Environmental Earth Sciences*. Vol. 82:393. DOI: 10.1007/s12665-023-11086-9
- A. Bhadra, A. Longkumer, **Liza G. Kiba**, and A. Bandyopadhyay. 2022. The effect of climate change on seasonal snowpack of Dibang river basin of Arunachal Pradesh, India. *Proceedings of the 39th IAHR World Congress*. DOI:10.3850/IAHR-39WC2521711920229.
- **Liza G. Kiba**, S. Rajkumari, N. Chiphang, A. Bandyopadhyay, and A. Bhadra. 2021. Comparison of snowmelt runoff from the river basins in the Eastern and Western Himalayan region of India using SDSRM. *Journal of Indian Society of Remote Sensing*, Vol. 49(10):2291–2309. DOI: 10.1007/s12524-021-01384-9.
- S. Rajkumari, N. Chiphang, **Liza G. Kiba**, A. Bandyopadhyay, and A. Bhadra. 2019. Development and application of a spatially distributed snowmelt runoff model for limited data condition. *Arabian Journal of Geosciences*, Vol. 12: 488. DOI: 10.1007/s12517-019-4661-0.
- G. Nengzouzam, N. Chiphang, S. Rajkumari, **Liza G. Kiba**, A. Bandyopadhyay, and A. Bhadra. 2019. Estimation of snow water equivalent from MODIS Albedo for a non-instrumented watershed in Eastern Himalayan Region. *Journal of Himalayan Earth Sciences*, Vol. 52(1):12–26.
- A. Bhadra, Lalramnghaki, **Liza G. Kiba**, and A. Bandyopadhyay. 2018. Temporal variation in water induced soil erosion by RUSLE model using RS and GIS. *EPiC Series in Engineering*, Vol. 3:236–244.

- **Liza G. Kiba**, B. Ningthoujam, C. Lairenjam, S. Pongen, and N. Mor. 2018. Assessment of energy use and productivity for paddy cultivation in North-East state of India- Dimapur District of Nagaland. *International Journal of Pure and Applied Bioscience*, Vol. 6(5):1162–1170.
- **Liza G. Kiba**, W. R. Singh, V. Zaphu, A. Bandyopadhyay and A. Bhadra. 2016. Generation of NDVI signature plots for major vegetation covers of Arunachal Pradesh. *Proceedings of the International conference on climate change mitigation and technologies for adaptation*. ISBN 978-93-81693-07-2

Chapters

- **Kiba, L. G.**, Lairenjam, C., Verma, A. K., Nengzouzam, G. and Ranjan, P. 2025. Traditional techniques of rainwater management and conservation in the mountainous regions of North-East India. In: Singh, V. S., Madhav, S., Diwan, P. and Kumar, A. (eds) *Water Resources Management in Mountain Regions*. Wiley. ISBN: 978-1-394-24958-9 DOI: [10.1002/9781394249619.ch19](https://doi.org/10.1002/9781394249619.ch19)
- **Kiba, L. G.**, Nengzouzam, G. and Ranjan, P. 2023. Flood Hazard Mapping Using Hydraulic Models and GIS: A Review. In: Pandey, M., Gupta, A. K., Oliveto, G. (eds) *River, Sediment and Hydrological Extremes: Causes, Impacts and Management*. Disaster Resilience and Green Growth. Springer, Singapore. DOI: 10.1007/978-981-99-4811-6_4
- Maza, M., **Kiba, L. G.**, Bandyopadhyay, A. and Bhadra, A. 2021. Effect of monthly variation of near-surface lapse rate on snowmelt runoff simulation in Eastern Himalayas. In: Pandey A., Mishra S., Kansal, M., Singh, R., Singh, V. (eds) *Water Management and Water Governance*. Water Science and Technology Library, Vol. 96. Springer, Cham. (Springer)
- **Kiba, L. G.**, Mondal, N. K., Khatso, V., Bandyopadhyay, A. and Bhadra, A. 2017. Relation of soil bulk density and elevation with some soil physico-chemical properties in Pare River basin of Arunachal Pradesh. In: Sati, V.P., Lalmalsawmzauva. (eds) *Natural Resources Management for Sustainable Development and Rural Livelihoods*, Vol. 3: 1389-1401.

Edited practical manual for B.Sc. (Ag.) course

- A.K. Verma, Khan Chand and **Liza Kiba**. 2021. *Practical Manual on Farm Power and Machinery*.
- A.K. Verma, L. Hangshing and **Liza Kiba**. 2021. *Practical Manual on Fundamentals of Soil and Water Conservation Engineering*.
- Khan Chand, A. K. Verma and **Liza Kiba**. 2022. *Manual on Renewable Energy and Green Technology*.

Conferences Attended/Participated

- Presented a review article at the **National seminar on Infrastructure and Sustainable Technology Solutions: Transforming Agriculture, Market and Rural Livelihoods** from 14-15 February 2025 at School of Agricultural Sciences, Nagaland University.

- Presented a paper in the **National Symposium cum Workshop on Springshed Management** from 18-19 November 2022 at Tezpur organized by NERIWALM in collaboration with NIH and CGWB, Department of Water Resources, River Development & Ganga rejuvenation, Ministry of Jal Shakti, Government of India.
- Presented a paper at the **2nd International Conference on Sustainable Water Management**, Ministry of Jal Shakti, Govt. of India, 6th to 8th November 2019, Pune.
- Presented a paper in the **International Conference on Natural Resources Management for Sustainable Development and Rural Livelihoods**, Mizoram University, Aizawl, India, 26th to 28th October 2017.
- Presented a paper in the **International Conference on Climate Change Mitigation and Technologies for Adaptation (IC3MTA 2016)**, Synod College, Shillong, Meghalaya, India from 20th to 21st June, 2016.

Workshops/Trainings

- Attended training course on ***AI-Academic Level Course at Farm Machinery Training & Testing Institute (N.E.R)*** from 5th to 29th July, 2011.
- Attended one-month summer training on ***Soil and Water Conservation*** at the Agricultural Engineering Division of ICAR Research Complex for NEH Region from 1st to 30th July 2012.
- Participated in the two days ***“Industry Institute Interaction Workshop on Ergonomics, Safety and Occupational Health”*** organized by the Department of Agricultural Engineering from 30th September to 1st October, 2016 at the North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli, Arunachal Pradesh.
- Participated in the training course on ***Glacier Studies and Remote Sensing*** from June 4th to 14th, 2018 sponsored by Divecha Centre for Climate Change & Science and Engineering Research Board, IISc, Bangalore.
- Participated in the AICTE-sponsored two-week **Faculty Development Programme on *Impact of Climate Change on Water Resources*** organized by Dept. of Agricultural Engineering, NERIST from October 14th to 25th, 2019.
- Participated in the National Level Training Programme on ***Disaster Management*** held during 27th to 29th February 2020 at NERIST.
- Participated in the online training programme on ***Water Conservation and Water Management*** held on 29th October 2020 organized by NERIWALM, Tezpur.
- Participated in the online training programme on ***Wetland Action for People and Nature*** held on 2nd January 2022 organized by NERIWALM, Tezpur.
- Gave hands-on training on ArcGIS software as a **resource person** on ***one-day awareness-cum-hands-on use of Geographic System (GIS) in agricultural research*** on 6th May 2022 organized by Soil & Water Conservation Department, SAS, Medziphema, Nagaland.

- Participated in the National seminar on ***Sustainable Emerging Approach in Agri-Business Development*** from 1st to 3rd November 2023, organized by the School of Agricultural Sciences, Medziphema campus, Nagaland University.
- Participated in the **SERB and INAE-sponsored Symposium for Young Women Engineers** on ***Technologies for Sustainable Developments in the North-Eastern Region*** held from 20th to 21st November 2023 in Tezpur University, Assam.

Membership In Professional Societies

- Associate Member, Institute of Engineers (India) since March 2020

Scholarship/Achievement

- UGC-PGSPROF Scholarship for ST/SC, 2013- 2015
- MHRD Scholarship for Doctoral Research, 2016-2021
- 3rd position in poster competition, Ministry of Jal Shakti, Department of Water Resources RD & GR, Govt. of India, 2019
- 1st position in oral presentation at National seminar on Infrastructure and Sustainable Technology Solutions: Transforming Agriculture, Market and Rural Livelihoods, February 2025

I do hereby declare that all the above information is true and correct to the best of my knowledge.

(Liza G. Kiba)