APPENDIX

Ecosystem	Pre-Monsoon	Monsoon	Post-Monsoon
GLT	19.5±0.31def	18.3±0.05c	19.1±0.12d
GLS	19.8±0.12fg	18.6±0.17c	19.6±0.18ef
FLT	20.2±0.20gh	19.1±0.15d	19.7±0.30f
FLS	20.5±0.73h	19.2±0.09de	19.6±0.12ef
WL	18.4±0.33c	16.8±0.05a	17.2±0.35b

 Table: C: N ratio of the studied ecosystems of Kaziranga National Park across three seasons. Each value ± standard deviation (SD) is the mean of three replicates.

Mean values in the same column sharing the same letters do not differ significantly according to the Duncan's multiple range test at p < 0.05. GL-Grassland, FL- Forestland and WL -Wetland ecosystem of Kaziranga National Park.

LIST OF PUBLICATIONS

Research Article:

- Borah, P., Gogoi, N., & Mahanta, S. P. (2023). Seasonal Variation in Carbon Mineralization Kinetics, Microbial Biomass Carbon and Enzyme Activities in the Soils of Three Natural Ecosystems of Kaziranga National Park, Assam, North East India. Journal of Soil Science and Plant Nutrition, 1-12. <u>https://doi.org/10.1007/s42729-023-01402-4</u>
- Borah, P., Gogoi, N., Asad, S. A., Rabha, A. J., & Farooq, M. (2022). An Insight into Plant Growth-Promoting Rhizobacteria-Mediated Mitigation of Stresses in Plant. Journal of Plant Growth Regulation, 20:1-28. <u>https://doi.org/10.1007/s00344-022-10787-y</u>

Book Chapter:

Borah, P., Baruah, N., Gogoi, L., Borkotoki, B., Gogoi, N., & Kataki, R. (2020). Biochar: A New Environmental Paradigm in Management of Agricultural Soils and Mitigation of GHG Emission. In *Biochar Applications in Agriculture and Environment Management* (pp. 223-258). Springer, Cham.

PAPERS PRESENTED IN SEMINAR, CONFERENCE, SYMPOSIUM AND ANNUAL CONGRESS

National

National Conference on "Current Perspectives of Environmental Science and Technology"
1 March, 2022, Department of Environmental Science, Tezpur University (Title: Soil carbon mineralization under different soil textural groups of Assam).

International

International Plant Physiology Virtual symposium on "Physiological Interventions for Climate Smart Agriculture" (IPPVS-2021), 11-12 March, 2021, ICAR- Sugarcane Breeding Institute, Coimbatore, Indian Society of Plant Physiology (ISPP), New Delhi, Society for Sugarcane Research and Development (SSRD), Coimbatore & NAAS Chapter, Coimbatore (Title: Effect of moisture stress on soil nutrient availability and yield performance of late sown toria in acid soils).