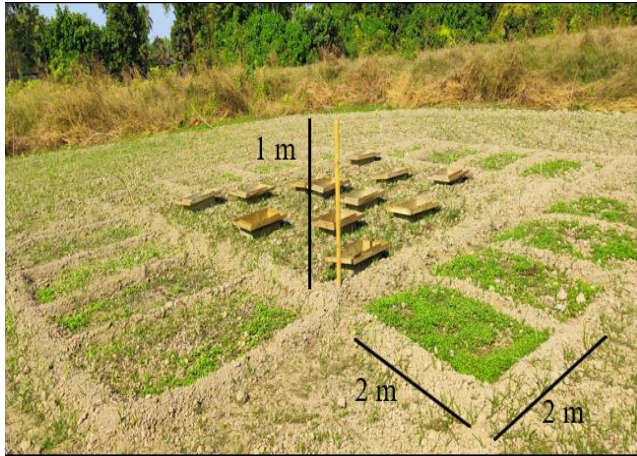


**Photographs of the experimental field:**



Where, A= experimental field and treatment plot sizes, B and C= N<sub>2</sub>O sampling, D= CO<sub>2</sub> sampling, E= estimation of photosynthesis and transpiration, F= french bean yield.

## LIST OF PUBLICATIONS:

### *Original Research Article:*

- Chetia, J.**, Gogoi, N., Baruah, D. C., Fouassier, N., Sippel, F. (2021). Potential use of bioenergy power plant residue biochar in mitigating N<sub>2</sub>O emission from acidic sandy loam soil: a comparative study. *Environmental Sustainability*, 4(2), 365-373.
- Chetia, J.**, Gogoi, N., Gogoi, R., Yasmin, F (2021). Impact of heavy metals on physiological health of lichens growing in differently polluted areas of central Assam, North East India. *Plant Physiology Reports*, 26(2), 210-219.
- Baruah, N., Gogoi, N., Roy, S., Bora, P., **Chetia, J.**, Zahra, N., ... & Farooq, M. (2023). Phytotoxic responses and plant tolerance mechanisms to cadmium toxicity. *Journal of Soil Science and Plant Nutrition*, 23(4), 4805-4826.

## PAPERS PRESENTED IN SEMINAR, CONFERENCE, SYMPOSIUM AND ANNUAL CONGRESS:

- International** Plant Physiology Virtual Symposium (IPVVS), 2021, on “Physiological Interventions for Climate Smart Agriculture, ICAR-Sugarcane Breeding Institute (SBI), Coimbatore, TN, Indian Society for Plant Physiology (ISPP), New Delhi, NAAS - Coimbatore Chapter & Society for Sugarcane Research and Development (SSRD), (Title: Impact of soil amendments on N<sub>2</sub>O emission and yield of mustard).
- International** conference on Sustainable Waste Management & Circular Economy & IPLA Global Forum 2021, Dec 01-04, 2021, Online, International Society of Waste Management, Air and Water (ISWMAW). (Title: An approach to assess the physicochemical properties of biochar produced conventionally from tea pruning litters and mixed wood chips).
- International** conference on “Climate Change, Biodiversity and Sustainable Agriculture (ICCBSA), December, 2018, Assam Agricultural University, (Title: Effect of Heavy Metals on Lichen Physiology).
- National** conference III, AISSA#under40, University of Bolzano, July, 2022, Italy (Title: Multi-parametric evaluation of mechanical termination of cover crops: experimental procedures and preliminary results).

