

## Research on Indigenous Rice Cultivars of Arunachal

Rice (*Oryza sativa*) is Arunachal Pradesh's primary grain, providing more than 95% of the population's caloric requirements. Recognizing the importance of this crop, rice research began with germplasm registration. The CoE has collaborated with local farmers of **nine (9) districts** to get freshly harvested seeds and nurture them for phenotypic investigations for germplasm registration. A total of **117** accessions numbers for indigenous rice cultivars were registered at ICAR-National Bureau of Plant Genetic Resources, Pusa, New Delhi as novel and unique.

### Broad objectives for Research and Development:

- Collection, documentation, and registration of indigenous varieties of rice cultivars of Arunachal Pradesh and setting up a repository for indigenous rice cultivars.
- Study the genetic diversity and population structure of all the collected germplasm accession using different markers.
- Assessment of phytochemical properties, nutritional profiling, and antioxidant activities of pigmented and non-pigmented rice cultivar from Arunachal Pradesh.
- Assessment for development of value-added products like fortified cereals, rice based cosmetic products, etc.

