

Survey, collection, documentation and evaluation of bioresources of Manipur

New Delhi, March 10: The research team of Plant Systematics and Conservation Laboratory (PSCL) of DBT- Institute of Bioresources and Sustainable Development (DBT-IBSD), Imphal, focuses on collection, characterization, evaluation, conservation, and sustainable utilization of potential and important bioresources.



In the last few days, a research team of PSCL successfully made field surveys at two less-explored hilly regions of Senapati district of Manipur viz. 'Chakumai' and 'Kotlen'. A total of 14 *Prunus* samples representing 3 species (*P. nepalensis* (Ser) Steudel *P. domestica* L. Batsch, *P. persica* L.) were collected from Chakumai Mao, and a total of 28 specimen of orchid representing 11 species were collected from Kotlen.

The team has also listed therapeutics uses of 146 plant species and mounted 164 herbarium samples from the collection that were previously made at 7 places (Laimaton, Punshilok, Ishikha, Kong Maru, Ngraiyan, Moirang and Khongampat) falling in 3 (three) districts of Manipur viz. Bishnupur, Imphal West and Imphal East.

As a part of development of captive farming and sustainable harvest technologies of Gingers and *Zanthoxylum*, Plantation of 300 plant specimens representing 2 species of *Zanthoxylum* (*Z. armatum* DC., *Z. rhetsa* (Roxb.) DC), 1 species of *Kaempferia* (*K. parviflora* Wall Ex. Baker), 1 species of *Curcuma* (*C. amada* Roxb.) and 1 species of *Alpinia* (*A. galanga* (L.) Wild) are carried out at Bioresource Park, IBSD, Haraorou. Regular field visit is maintained twice a week to carry out weeding and hoeing of these plantations. Recently, PSCL, IBSD has acquired 400 sq. ft. site at Bioresource Park, IBSD, Haraorou for plantation of *Kaempferia* and *Zanthoxylum* species and tilling of land for bed preparation is initiated.

PSCL is also carrying out an Integrative taxonomic analysis for assessment of diversity and phylogenetic relationships among Gingers and Prunus from Northeast Region. To achieve these objectives, amplification of chloroplast matK region, nuclear ITS (Internal Transcribed Spacer) region and ISSR (Inter Simple Sequence Repeat) markers were carried using appropriate primers for 24 Prunus samples representing 8 species, and 49 Zingibers represent 14 genus and 49 species.

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