

EXTERNALLY AIDED PROJECTS

Project 1: Identification, collection and genetic evaluation of important oil yielding trees of Jharkhand (NABARD funded project) [IFP-028/BGT-6/ NABARD /2005 – 08]

Findings: Investigation on variability studies, genetic analysis, association studies and genetic diversity analysis of field biometric traits (clones and progenies), pod and seed characters, seedling traits, biochemical traits of 24 CPTs of Karanj and 23 CPTs of Mahua revealed following findings:-

- Variability available among the selected CPTs for biometric traits, pod and seed traits, half-sib traits and biochemical traits were assessed and observed to have significant variation.
- Genetic estimates were worked out in second part to know the GCV, PCV, Heritability and genetic advances for all the traits under study. It was found that trait volume index, hundred seed weight, vigour index, acid value and total oil content can be improved by breeding.



Important oil yielding trees of Jharkhand

- Inter-relationship between characters by association studies (correlation and path analysis) were worked out. Studies revealed the collar diameter 2D surface area, shoot length and protein content may be considered for selection indenting hire volume index, germination, vigour index and total oil content respectively.
- Genetic diversity of the collected clones using biometric observation were analysed which expressed non conformity with geographical distribution of clones.