STEWARDSHIP OF WATER THROUGH ENSURING SUSTAINABLE DEVELOPMENT OF RIVER BANKS
OBJECTIVES AND EXPECTED OUTCOMES

- Documentation of present condition of river banks, through Interviews, Quadrate study and documentation of biodiversity
- Documentation of economically important plants and the estimation of their frequency, density and abundance
- Evaluation of ecological degradation in and around the selected river spots
Documentation of cultivation practices adopted around the riverbanks of selected spots
Study on weed plant diversity and extent of invasion in the water body
Study of indigenous medicinal plants in the river banks of central Kerala
Soil and Water analysis to determine the physical as well as chemical qualities
STUDENT STUDY TEAM
A SCENE FROM MANJALY – MEN ENGAGED IN SAND MINING
SOME AQUATIC WEEDS

EICHHORNIA

CABOMBA

SALVINIA

CERATOPHYLLUM
PANDANUS ON RIVERBANK
SOME INDIGENOUS MEDICINAL PLANTS

Cerebera odollam

Saraca asoca

Calotropis gigantea

Abelmoschus moschatus
SOME INDIGENOUS TREE SPECIES

Artocarpus heterophyllus

Averrhoa bilimbi

Hydnocarpus pentandra

Myristica fragrans
PLOTS WITH CASH CROP CULTIVATION

1. BLACK PEPPER  2. AMARANTH

3. CASSAVA  4. TURMERIC
GATHERING INFORMATION FROM FARMERS
DESTRUCTED RIVERBANK SITES WHICH REQUIRE IMMEDIATE ATTENTION
SOIL AND WATER ANALYSIS FOR QUALITY ESTIMATION
CONCLUSIONS

- Riverbanks needs urgent protection especially action oriented plans.
- Invasion of weeds both in water and land area is high at several study spots.
- The density and abundance of majority of the indigenous medicinal and economically useful plants are diminishing due to competitive growth of exotic weeds.
- Soil and water quality at different sites are found below the standards due to human interferences.
Selected indigenous, medicinal and underutilized plants are proposed for wide scale propagation and planting in the forthcoming planting season.

About 3000 plants are to be distributed for planting in homesteads near riverbanks and in Government owned free lands.
THANK YOU