Soil Health Management for Food Security and Climate Resilience

Objective: Soil restoration through integrated management practices to address Climate Change Adaptation and Mitigation and landscape ecosystem restoration for sustainable livelihood



Practices promoted by BAIF through community participation

- **Soil Health and Productivity Improvement:** Soil Sample Testing, Integrated Nutrient Management, Green Manuring, Intercropping with Legumes, Crop Rotation and Crop Diversification.
- **Carbon Sequestration:** Tree-based farming model has potential to sequester large carbon (23 $MTha^{-1}$). The perennial system harvests solar energy year round and the biomass produced helps increase soil organic matter content.
- **Emission Reduction:** Biomass recycling through farmer producer company for Bio char and Bio PROM Production and Crop Intensification.
- **Biodiversity Conservation:** Organic pesticides and manures, conservation of native land races and family nutrition.
- **Land Degradation Neutrality:** Involvement of community in soil protection through soil conservation and runoff control measures and water management.







Bio-char production and application



BAIF Bio-PROM

Outcomes:

- Increased farm resilience
- Promotes carbon sequestration
- Ensures food security



City compost application



Crop diversification

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