

Chapter-10

Limitation and Future Scope

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Limitation

- Some more few number of variables are to be included more to top up the level of study.
- The core peripheral interaction could have been accommodated it in the study of ecological interrelation and interdependence.
- A laboratory based data on water chemistry, pond soil, flora and fauna count, could have added a fine touch for the study and also to spearhead in its progress and prosperity.

Recommendations

- An urgent need for the integration of local knowledge in critical climate policies to improve agricultural practices and livelihood.
- To mitigate the climate change-disasters-food insecurity nexus, that area needs to have a better technical understanding, capacity building, networking and comprehensive consultation processes spanning every section of the society.

- Farmers' Climate Change Task Force (FCCTF) needs to be formed to mobilize the community in mitigating climate change effect with the help of local institutions and social capital.
- Rural disaster forecasting system needs to be created with a clandestine combination between modern gadgets and local knowledge.
- A comprehensive base line survey is warranted to spearhead the future research on Chilika ecosystem including forecasting on biodiversity, livelihood, hydrology and salinity status.
- Gender and community study can be organised and the data output can be ducted into the data warehouse, so that the process data on migration, occupational transformation, productivity change of crop and livestock enterprises and scenario map for futuristic research can be made future available.

Future Scope

These complex, empirical evidences and interactions generated from the study, have left behind terms of researchable issues and empirical cultivation; a journey from a small niche analysis to a mega system interpretation. The followings are the agenda for future research.

- Ecological modelling in extension science needs higher statistical and mathematical design to drive the dynamics of ecological change into a strong heuristic interpretations.
- Chilika Lake is just a fragment of huge shore of coastal line of India. So, a good amount of ecology study in this ladders of coastal ecosystem could generate more comprehensive models.

- Ichthyofaunal diversity and its change, migration of fisher folk in response to decline of fish diversity, transformation of agricultural land into non-agricultural use.
- The farming practices, the socio-economic profile of the farming communities and the dynamics of the relationship between the traditional fishing and the "neo" fishing communities are important areas of inquiry. In-depth socio-economic studies need to be undertaken to elucidate the complex interaction embedded therewith.
- The study can invite a new pace of extension research in areas, may be called as ecological structure and functioning of research.