Activity chart:

Tasks	Year 1				Year 2				Year 3			
	3	6	9	12	15	18	21	24	27	30	33	36
Project management and interaction with stakeholders												
Recruitment of Project staff	■	■										
Procurement	■	■	■									
Training			■								■	■
workshops			■								■	■
Environmental data collection												
Historical data: climate, agriculture, livelihood parameters, environment and social-economic			▨	▨	▨	▨	▨					
planning and design of survey, urban-rural ecosystem natural resource usage and Socio-economic survey			▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
Satellite images, Observation of air, climate, soil, water and urban environment: planning, and design of sampling locations and observations			▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
Quality control of observational data and data organisation			▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
Development of digital database on land use land cover, livelihood parameters, water and other resources (including socio-economic) at urban-rural ecosystem			▨	▨	▨	▨	▨	▨	▨	▨	▨	▨
Analysis and data modeling												
Quantifying past LULC & Natural resource changes and developing data models			▦	▦	▦	▦	▦					
Reliability of IPCC models: Developing reliable high resolution past climate and future climate scenarios for the two selected habitats over the Indian Himalaya	▦	▦	▦	▦	▦	▦	▦	▦	▦	▦	▦	▦
Data model and regression				▦	▦	▦	▦	▦	▦	▦		
Statistical model and validation				▦	▦	▦	▦	▦	▦			
Model development												
WRF-urban-canopy		▩	▩	▩	▩	▩	▩	▩	▩	▩		
Crop models customization for horticulture		▩	▩	▩	▩	▩	▩	▩	▩			
Urban-rural land utilization scenario model				▩	▩	▩	▩	▩	▩	▩		
Cellular automata (CA) model					▩	▩	▩	▩				
Socio-economic models and					▩	▩	▩	▩	▩			
Integrated SDM				▩	▩	▩	▩	▩	▩	▩	▩	▩
SDM Simulations and Validation												
Simulation of past and future projections									▧	▧	▧	▧
Validation with past data									▧	▧	▧	▧
Intervention strategies and decision support system												
Design and test the intervention strategies for enhanced sustainable livelihood opportunities									▤	▤	▤	▤
Developing a decision support system by integrating SDM on GIS platform									▤	▤	▤	▤
Outreach and training/capacity building, communication strategy									▤	▤	▤	▤
Documentation												
Project documentation		▥	▥	▥	▥	▥	▥	▥	▥	▥	▥	▥
Manuscripts		▥	▥	▥	▥	▥	▥	▥	▥	▥	▥	▥
Project closure report											▥	▥