



Namaste

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Small Mammals Conservation and Research Foundation
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IPROMO

*Managing mountain resources and diversities:
the role of protected areas*

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EDUCATION

- **Masters in Environmental Science**
major in Mountain environment , Tribhuvan University, Nepal
- **Masters in Anthropology,**
Tribhuvan University, Nepal



EMPLOYMENT AND MAIN ACTIVITIES

- ◉ **KEEP (Kathmandu Environmental Education Project)**
2009 – 2014
Program Officer
Ecotourism
- ◉ **Projects Abroad**
2015
Conservation Coordinator



OTHER INTERESTS

VOLUNTEER WORK

- **Committes**
 - **Vice chairperson, CDES Alumni, Tribhuvan University**
 - **Executive Member, Small Mammals Conservation and Research Foundation (SMCRF)**
 - **Asia Pacific Mountain Network**
 - **Environment Professionals' Group**
 - **Youth Forum for Empowering Youth with Earth Observation Information for Climate Actions**
 - **Board Member , Rising Lotus Village Orphanage**

HOBBIES

- **Birding (Member of Bird Conservation Nepal and Friends of Birds)**
- **Outdoor Adventure Sports**
- **Hiking**
- **Photography**

Mountain Biodiversity and Wildlife Conservation Activities with Projects Abroad



Projects Abroad:

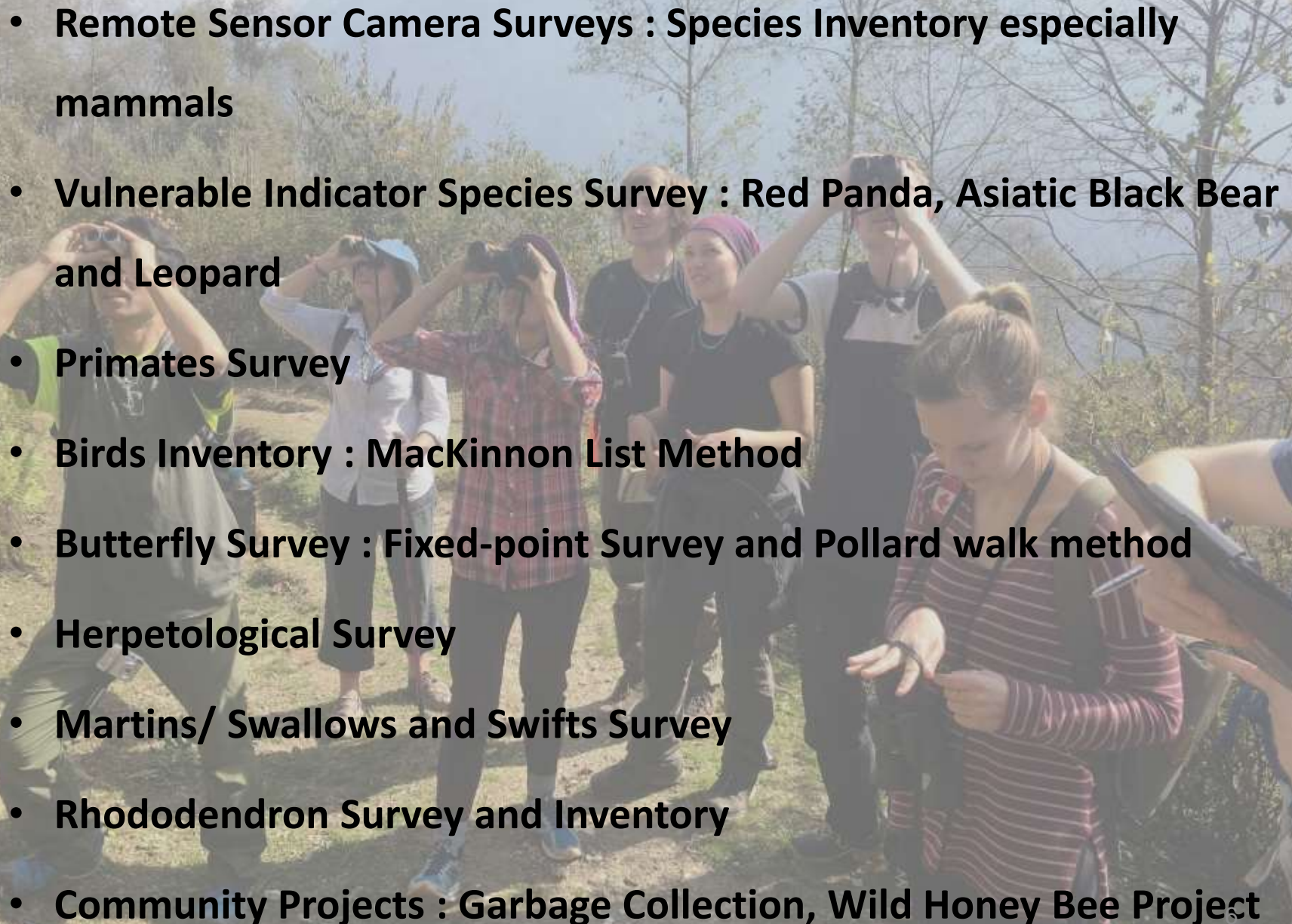
- **Leading international volunteer organizations**
- **Mission : To encourage young people to volunteer for worthwhile work**
- **Areas : Care, Teaching, Conservation and Environment, Sports, Archaeology, Building, Agriculture and Farming, Creative and Performing Arts.**
- **Himalayan Mountain Conservation Program**

Aim: To enhance and preserve biodiversity through a combination of scientific research and community engagement and aiding social development in Ghandruk

Study Area:

- **Ghandruk , Annapurna Conservation Area**
- **ACA : first conservation area and largest protected area of Nepal**
- **Sailent Features: home to the world's deepest river gorge, largest rhododendron forest and highest altitude fresh water lake.**

Ongoing Projects in Ghandruk by Projects Abroad Vols & Staff (ACAP):

- **Remote Sensor Camera Surveys : Species Inventory especially mammals**
 - **Vulnerable Indicator Species Survey : Red Panda, Asiatic Black Bear and Leopard**
 - **Primates Survey**
 - **Birds Inventory : MacKinnon List Method**
 - **Butterfly Survey : Fixed-point Survey and Pollard walk method**
 - **Herpetological Survey**
 - **Martins/ Swallows and Swifts Survey**
 - **Rhododendron Survey and Inventory**
 - **Community Projects : Garbage Collection, Wild Honey Bee Project**
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Wildlife Conservation Projects



Habitat and Feeding Behaviour of Red Panda in Langtang National Park

Objective:

- To identify floristic composition of Red Panda habitat and feeding habit of the Red Panda

Methodology:

- Transect survey for signs and pellets.
- General vegetation - nested quadrat method .
- Microhabitats study - panda signs plots.
- Food habit – Microhistological analysis.
- Threats assessment – Cattle dung density and Cut stump density

Results:

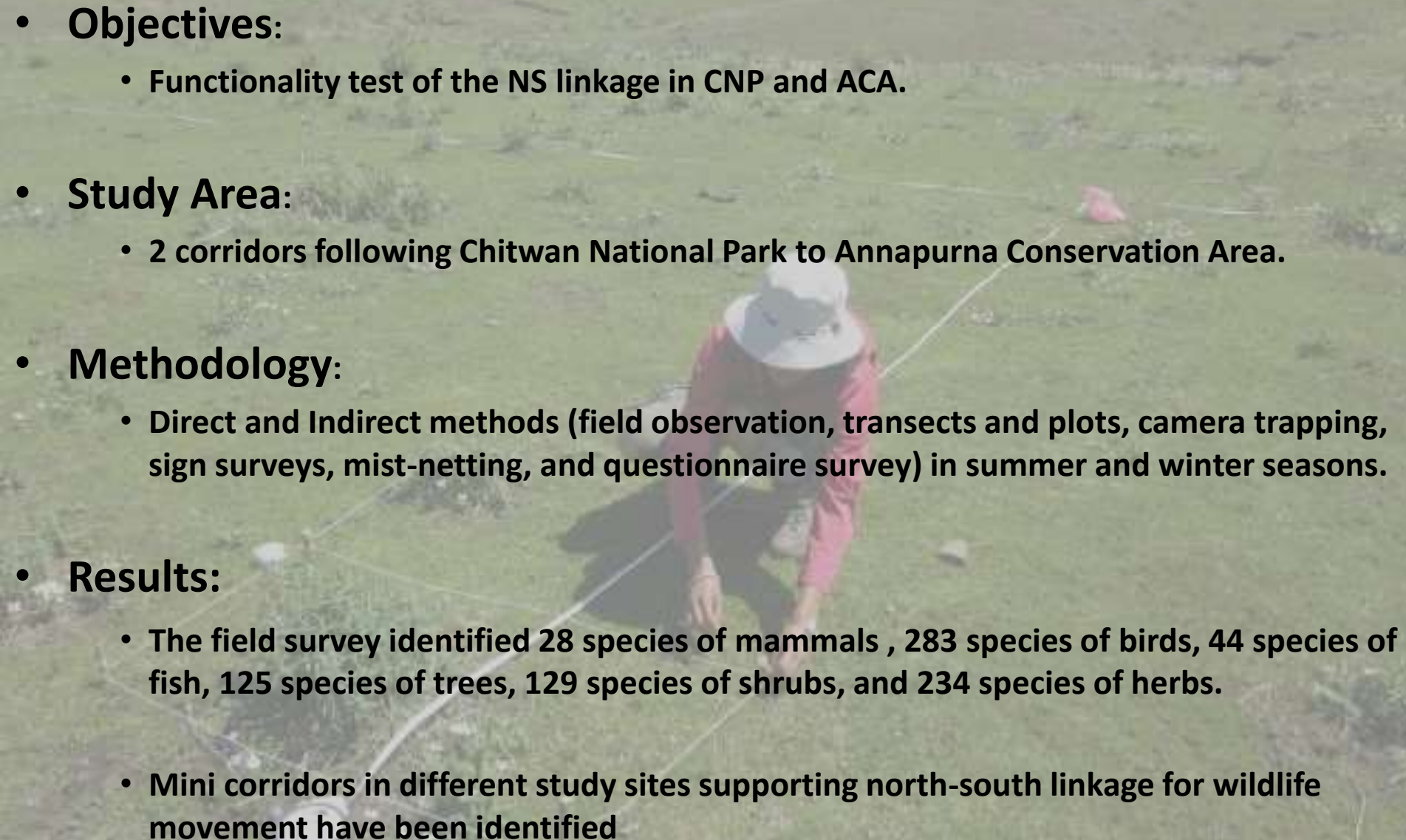
- **Habitat Preference – NW facing slope (64%) Average 37 °**
- **Fir forest with dense undergrowth of bamboo.**
- **Pellets size analysis -72% adult.**
- **90.8% of food items *Thalmsnocalamus aristatus***
- **(Niche breadth - 0.000121) - high selectiveness foraging**
- **Threats – Transhumance grazing**
- **Grazing season of domestic animals overlap with breeding season of the Red Panda**

Other Wildlife Research

- Distribution, population status and conservation of the Himalayan Musk Deer (*Moschus chrysogaster*)
- Monitoring Diversity and Conservation Status of Small Mammals with special focus on the Pygmy Hog
- Population status, habitat utilization, distribution and conservation threats of the Hispid Hare (*Caprolagus hispidus*)
- Assessment of Status, Threats and the Ethno-Ornithological Relationship and its extension for the Conservation of Owls
- Raptor Migration Assessment

Functionality study of North- South Linkage in Chitwan- Annapurna Landscape with Biodiversity survey of Biodiversity Important Areas



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- **Objectives:**
 - **Functionality test of the NS linkage in CNP and ACA.**
 - **Study Area:**
 - **2 corridors following Chitwan National Park to Annapurna Conservation Area.**
 - **Methodology:**
 - **Direct and Indirect methods (field observation, transects and plots, camera trapping, sign surveys, mist-netting, and questionnaire survey) in summer and winter seasons.**
 - **Results:**
 - **The field survey identified 28 species of mammals , 283 species of birds, 44 species of fish, 125 species of trees, 129 species of shrubs, and 234 species of herbs.**
 - **Mini corridors in different study sites supporting north-south linkage for wildlife movement have been identified**

Climate Change Studies



Climate Change Perception & Adaptational Measures

Objective:

- To assess vulnerability of indigenous mountain communities to climate change & adaptational strategies.

Methods:

- Questionnaire Survey, FGD
- Direct Observation

Results:

- Observed warming trend over past several decades
- Abrupt changes in rainfall and precipitation pattern
- Impacts on agricultural production
- Local adaptational measures started to implement to some extent

Other Projects on Climate change

- **Assessment of Climate Change impacts and identifying adaptation and mitigation measures in protected areas of Nepal**
- **Inventory of High Altitude Wetlands**

Environmental Impact Assessment (EIA)



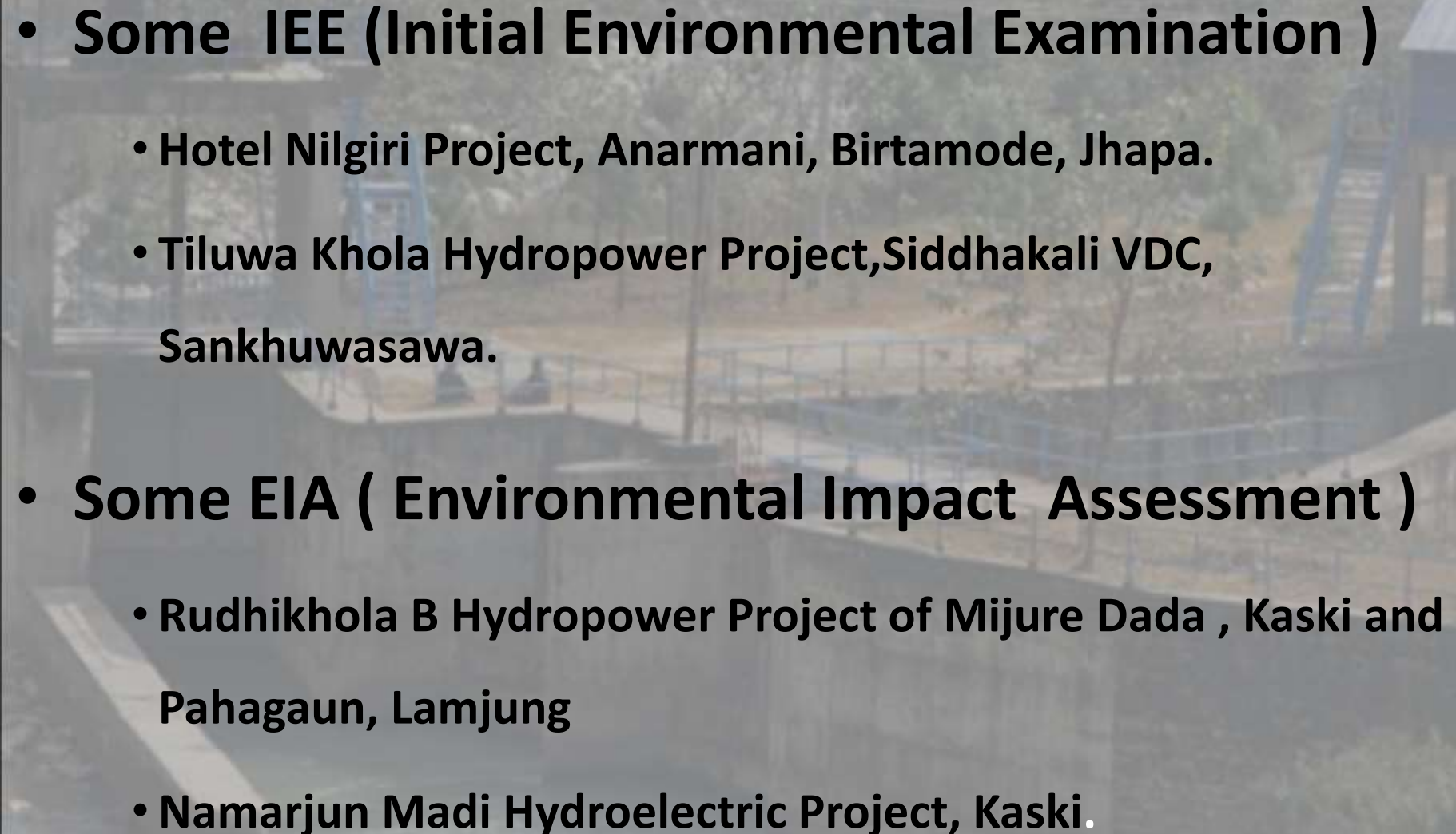
An aerial photograph of a road interchange with multiple overpasses and ramps, set against a backdrop of green, hilly terrain. The image is slightly faded to serve as a background for the text.

- **Goal**

- **To make economic development projects environmentally sound and sustainable**

- **Aims:**

- **To assess intangible, unquantifiable effects of any development projects**
- **To dig out indepth information on bio-physical and socio-economic aspects of the project**
- **To improve the design and safeguards the environment through preventive and mitigative measures**

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- **Some IEE (Initial Environmental Examination)**
 - Hotel Nilgiri Project, Anarmani, Birtamode, Jhapa.
 - Tiluwa Khola Hydropower Project, Siddhakali VDC, Sankhuwasawa.
 - **Some EIA (Environmental Impact Assessment)**
 - Rudhikhola B Hydropower Project of Mijure Dada , Kaski and Pahagaun, Lamjung
 - Namarjun Madi Hydroelectric Project, Kaski.

WAY FORWARD

**Conservation of Mountain Biodiversity through
Species based indepth studies**

Dhanybaad

Thank You

