

Wildlife

1. Wildlife

- 1.1 Mammals :Flagship species, key species, indicator species of lowland, mid-hills and mountains (Large carnivores: Bengal tiger, Common leopard, snow leopard, hyena, wild dog, clouded Leopard; small carnivores; Megaherbivores- Asian elephant, One-horned rhinoceros, gaur, musk deer, red panda, other prey species; Asiatic black bear, wild yak)
- 1.2 Reptiles: Mugger and Gharial crocodile, Turtles and tortoises
- 1.3 Birds: Wetland birds, grassland birds, Birds of prey and vultures, forest birds
- 1.4 Red Listing of wildlife in Nepal, and Animal behavior

2. Wildlife Conservation

- 2.1 Major problems in Protected Areas, Poaching, and Illegal wildlife trade, encroachment, theft of timber and other forest products, Human-Wildlife Conflict, problem animal and its management
- 2.2 Habitat Management, Grassland and rangeland, Wetland, Alien and invasive species
- 2.3 Major invasive alien plants of protected areas of Nepal.

3. Wildlife research and monitoring

- 3.1 Carnivore,
- 3.2 Prey species
- 3.3 Mega-herbivores,
- 3.4 Advanced methods-traditional wildlife estimation techniques with advanced Genetic, Radio tracking, camera trap, other tracking such conservation drone

4. Landscape level management

- 4.1 Corridor, connectivity and bottleneck
- 4.2 Landscapes of Nepal
- 4.3 Protected forest
- 4.4 Species enjoying the corridors and may not sustain in single PA

5. Ex-situ conservation and Conservation breeding

- 5.1 Conservation breeding, zoo and zoological gardens
- 5.2 Gharial Breeding Centers,
- 5.3 Elephant Breeding Centre and domestic elephant management,
- 5.4 Vulture Breeding Centre and Vulture restaurants,
- 5.5 Zoo Management

6. Policy and Law

- 6.1 National Policy, law and Legal aspects of protected areas management (NBS 2002, 2014))
- 6.2 NPWCA 2029 (5th amendment 2074 BS) and related Rules and guidelines, Forest Act 2049,
- 6.3 Environmental Protection Act 2053 and their regulations;
- 6.4 Research policy of DNPWC, Do Research;
- 6.5 Relief Guideline 2069 BS (2nd ammnd.2074 BS)
- 6.6 Bi-lateral and Multilateral agreement
- 6.7 Bilateral agreements (Global Tiger Forum, Global Tiger Initiative, transboundary biodiversity agreements with India and China)
- 6.8 Multilateral conventions (CBD, CITES, Ramsar convention, World Heritage Sites, United Nations Framework on Climate Change)

7. Planning in Protected Area

- 7.1 Management plans, Annual operation plans and Site plans
- 7.2 Implementation of Management plans (Management of staff, Inspection and supervision, physical structure, Patrolling, In-service training, Concession services, resource utilization, Law enforcement, Evaluation of management).
- 7.3 Management effectiveness of protected areas
- 7.4 Species Conservation Action Plan

8. Management of Natural Resource in Protected Areas

- 8.1 Rehabilitation of Captive animals, translocations: Introductions, reintroductions, and supplementation
- 8.2 Capture and handling of mammals, birds, reptiles, amphibians
- 8.3 Rescue, care and release of wild animals
- 8.4 Fire as a management tool, grazing by domestic animals as a management tool, Wildlife farming and utilization
- 8.5 Wetland and waterhole management
- 8.6 Habitat management
- 8.7 Forest management

9. Protected Areas and People

- 9.1 Protected area and indigenous people, Human enclave within Protected areas, Protection of cultural sites, harvesting resources from Buffer Zone, Broadening participation and cooperation in management of protected areas
- 9.2 Communication and public relations for protected Areas: Visitor information and interpretation services, School and Education services, extension services in buffer zone, Publicity and public relationship
- 9.3 HW interactions
- 9.4 Buffer Zone Management

10. Protected Area Management

- 10.1 Concept of protected areas
- 10.2 Categories of Protected areas-globally (IUCN categories), nationally
- 10.3 Ecological distribution of wildlife in Nepal
- 10.4 Wildlife management practices in Low land, Mid-hills and Mountains of Nepal
- 10.5 Biodiversity Conservation and its sustainability