



Department of Wildlife Sciences

2025





## Research & Development

**Departmental Research Experiments**

under Budget Heads: 352/ 12071 &amp; 12100

No.	Exp No.	Title	Commencement
1.	WLS/16/2	Biodiversity of Navsari city & its surroundings	2020
2.	WLS/18/1	Monitoring the status of mammalian fauna of NAU campus	2022
3.	WLS/18/2	Population assessment of leopard in human dominated landscape of Vansda taluka of Navsari district	2022
4.	WLS/18/3	Long term monitoring of roadkill on NH 64 from Eru Char Rasta to Dandi Dist. Navsari	2022
5.	WLS/18/4	Bird community structure in Vansda National Park, Navsari, Gujarat	2022
6.	WLS/20/1	Assessment of occupancy and habitat use of Large Carnivores in South Gujarat	2024
7.	WLS/20/2	Prey availability of Large Carnivore in selected Protected Areas of Gujarat, India	2024
8.	WLS/20/3	Movement ecology of Leopards ( <i>Panthera pardus fusca</i> ) using radio-collar in South Gujarat	2024
9.	WLS/20/4	Modelling Leopard's suitable habitat using machine learning algorithm	2024
10.	WLS/20/5	Niche partitioning between Leopard ( <i>Panthera pardus fusca</i> ) and Asiatic Lion ( <i>Panthera leo leo</i> ) in Gir Protected Area	2024
11.	WLS/21/1	Monitoring resident and migratory avifauna in the wetlands of Navsari	2025
12.	WLS/21/2	Status and crop damage by wild ungulates in South Gujarat	2025



## Recommendation

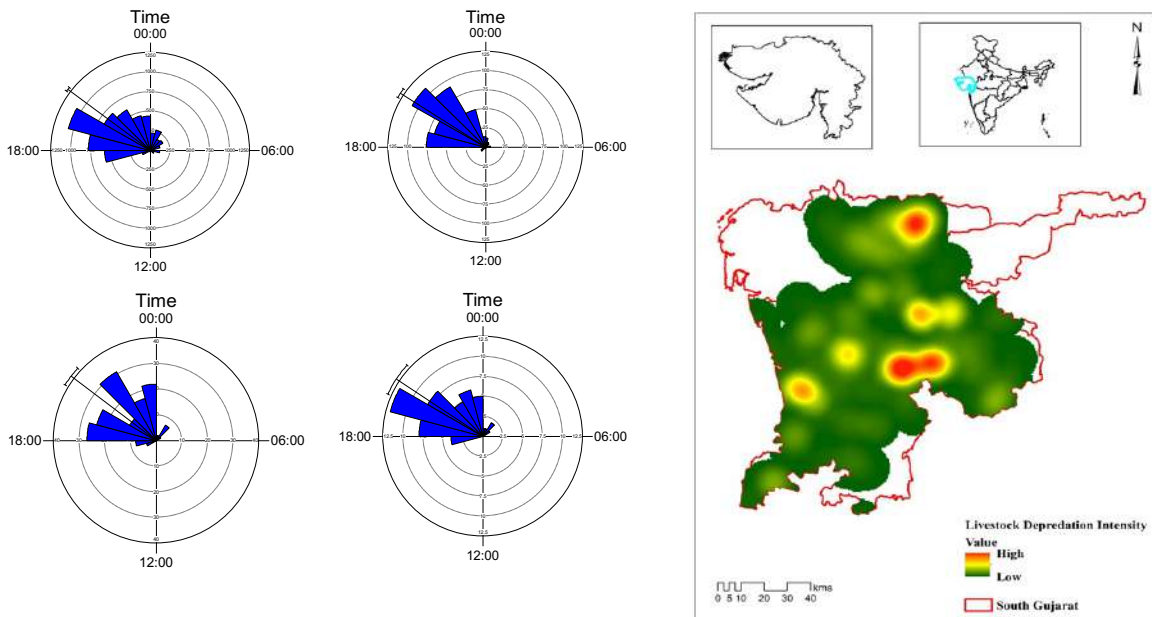
### Monitoring human-leopard conflict using Remote Sensing and GIS in South Gujarat

The study has recommendation for a wide range of stakeholders such as farmers, villagers, common people of society, forest department staff and scientific community. Following are the recommendations:

1. Leopard spatial distribution is highly concentrated in eastern and north eastern part of the Mandvi and Vansada taluka respectively. Therefore, there is an urgent need to put this area under the priority for focused mitigation efforts.
2. Most of the livestock depredation occurred between 20:00 and 21:00 Hrs. Farmers/Villagers should take extra precaution during these hours to avoid depredation of their livestock.
3. Livestock tied outside of cattle shed during night hours were killed more than inside cattle shed. Therefore, there is urgent need to aware the farmers regarding the risk posed to cattle due to unattendedness during night.

આ અભ્યાસ થકી ખેડૂતો, ગ્રામજનો, સમાજના સામાન્ય લોકો, વન વિભાગના કર્મચારીઓ, અધિકારીઓ અને વૈજ્ઞાનિકો માટે ભલામણો નીચે મુજબ છે:

૧. દીપડાનું વિતરણ માંડવી અને વાંસદા તાલુકાના પૂર્વ અને ઉત્તર પૂર્વ ભાગમાં ખૂબ જ કેન્દ્રિત છે. તેથી, દીપડાના પ્રશ્નોના શમન માટે આ વિસ્તારોને પ્રાથમિકતા હેઠળ મૂકવાની તાતી જરૂરિયાત છે.
૨. મોટાભાગે પશુઓનું મારણ રાત્રીના ૮ થી ૧૦ કલાકની વચ્ચે થતો હોય છે. ખેડૂતો/ગામવાસીઓએ આ સમય દરમિયાન તેમના પશુઓનું મારણ ન થાય તે માટે વિશેષ સાવચેતી રાખવી જોઈએ.
૩. રાત્રીના સમયે શેડની બહાર બાંધેલા પશુઓ શેડની અંદર કરતાં વધુ માર્યા ગયા હતા. તેથી, રાત્રી દરમિયાન અગમચેતીના પગલાં રૂપે ખેડૂતોને જાગૃત કરવાની તાતી જરૂરિયાત છે.

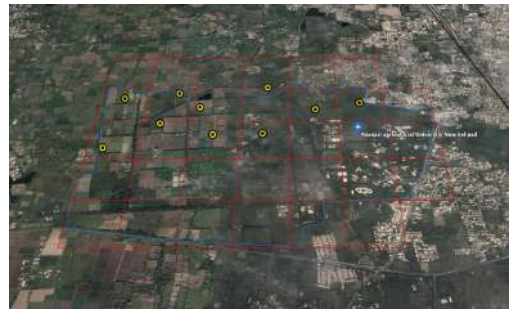


Leopard's Livestock depredation timing and Intensity Hotspot in South Gujarat



## WLS/18/1

Twenty square grids have been laid down on NAU campus each with a size of 20 ha and camera traps are deployed in each grid for one month in all seasons and data is being collected to assess the mammalian fauna with their habitat use. To assess habitat, occupancy-based framework will be used which is based on generalized linear modelling that relates capture probability of individuals to the habitat factors. Entire study period will be divided in sampling occasion of 10 days and species presence absence is recorded in these occasions. Habitat factors around each camera traps is collected. Package Unmarked in programme R is used for the analysis of habitat use.



Mammals sighted in NAU campus



## WLS/18/2

Systematic sampling is used by dividing the whole Vansda taluka in 4 sq km grid. Camera traps are deployed for one month in each block. Prior to deploying the camera traps, a reconnaissance survey was carried out to find suitable places for signs such as scats and pug marks of leopard. Camera trap are monitored weekly to retreat the data. Individual leopards are identified from their unique rosette pattern. Data are analysed using the spatially explicit capture recapture framework using the package SECR in program R.



Leopards of Vansda



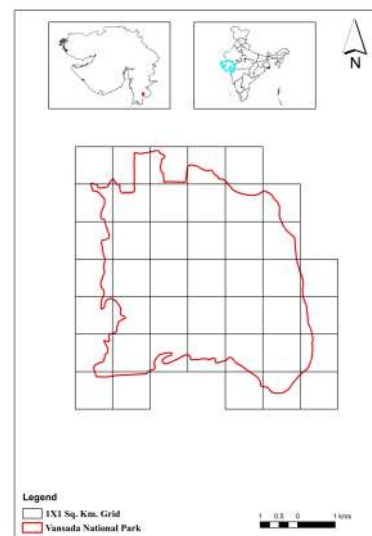
## WLS/18/3

Since roadkill is the direct threat for the wildlife persists around the roads, the experiment is taken up to assess the magnitude of these roadkill. Two observers on both sides of the roads walk with a slow pace and carcasses from roadkill are recorded along with the information such as species, age and sex, date, GPS location and adjacent habitat. Data of the roadkill are recorded on the weekly basis. To assess the spatial distribution and abundance of mammals' direct and indirect approaches are used. In the direct approach six line transect of 2 km length would be laid parallel to the road at a distance of 50, 500 and 1000 meters which results in effort of 14 km on either side of the road. Animal density is calculated using package Distance. Group encounter rate per kilometre could act as index of abundance due to their linear relationship with the density.



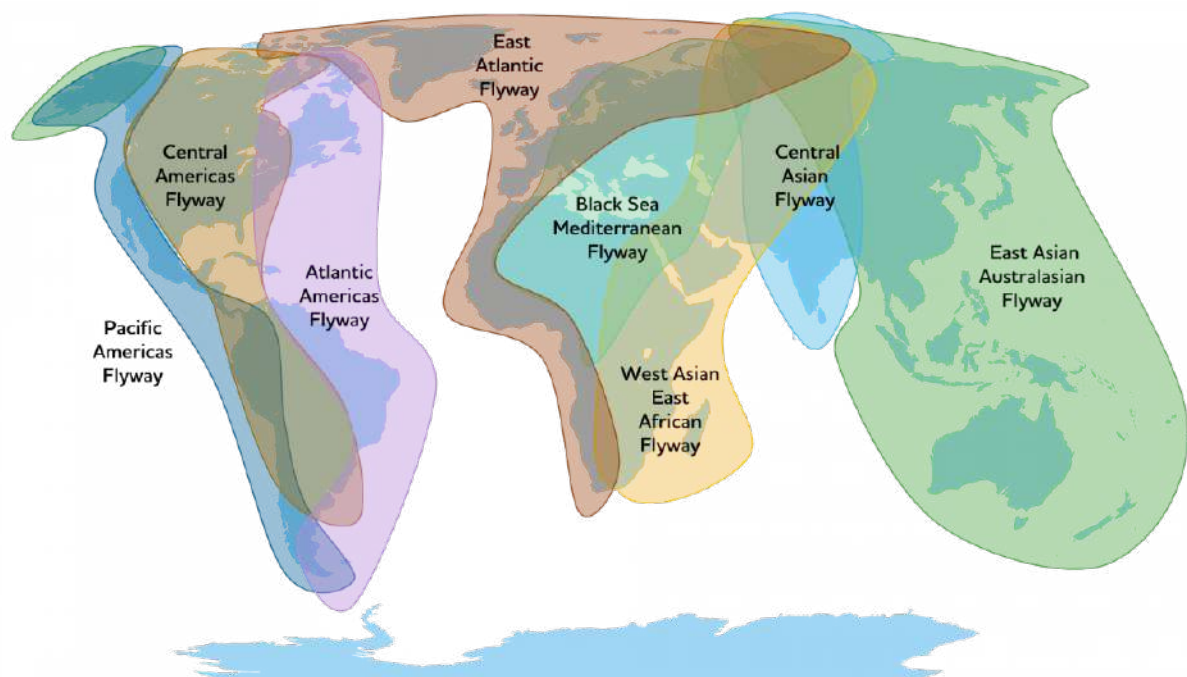
## WLS/18/4

Bird community structure is being assessed using distance sampling framework which is one of the widely used framework to assess the abundance of birds. Distance sampling framework using point count method is used for assessing the community structure of birds. Point count will be laid systematically in a square grid system of 1 sq km. Point count is conducted in morning from 0600 to 1100 hours and in evening time 1600 to 1900 hours when birds are most active. Point count is carried out for 10-15 minutes by a single or multiple observers. Data recorded while doing point transect include species name, group size, radial distance from centre of point, GPS location of the point and habitat. Radial distance from the point is measured with the help of the range finder. Each point count is replicated for 2 to 3 times to get minimum count for the estimation of densities. Programme Distance is used for the analysis of bird densities. Multivariate analysis is further performed to assess the bird community structure.



WLS/21/1

Migratory birds, which travel vast distances across continents, are highly susceptible to a variety of threats throughout their life cycles. Present experiment stems from the alarming decline in global avian populations, particularly among migratory bird species. The need to understand and mitigate these threats has become increasingly urgent as many migratory bird species face escalating pressures from habitat loss, climate change, and human activities. The wetlands of Navsari District harbor many migratory species. Migratory birds contribute in pollination, biocontrol, scavenging and nutrient cycling to the farm lands. This experiment will give an idea about the resident and migratory threatened avian species in the region. The wetlands and sites shall be periodically visited and data of avian species shall be collected and scientific information will be generated. To understand the habitats used by migratory birds, data on land cover, vegetation types and habitat quality identified through satellite telemetry would be collected. This includes remote sensing data from satellite imagery or aerial surveys. Additionally, climate data such as temperature, precipitation, and weather patterns would be gathered from meteorological stations and climate databases to assess their impact on migration routes and timing





WLS/21/2

South Gujarat region has already lost wild ungulate species like Sambar (*Rusa unicolor*) due habitat destruction and poaching while the conservation status of the other wild ungulates such as Chital (*Axis axis*), Four-horned antelope (*Tetracerus quadricornis*), Barking deer (*Muntiacus muntjak*) and Wild pig (*Sus scrofa*) in the area still not scientifically known. Moreover, the magnitude of crop damage in farmlands of South Gujarat has not been quantified by the available ungulate species in the area. Therefore, the present experiment aims to know the current status of these ungulates, assess the magnitude of crop damage by these ungulates and provide suggestive recovery measures against crop damage.



## Projects

### Ongoing

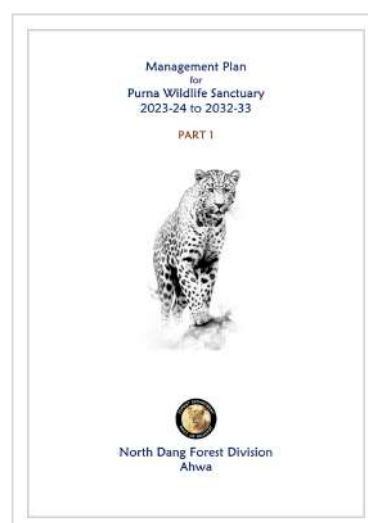
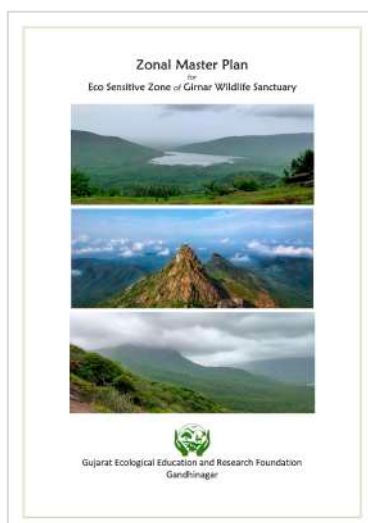
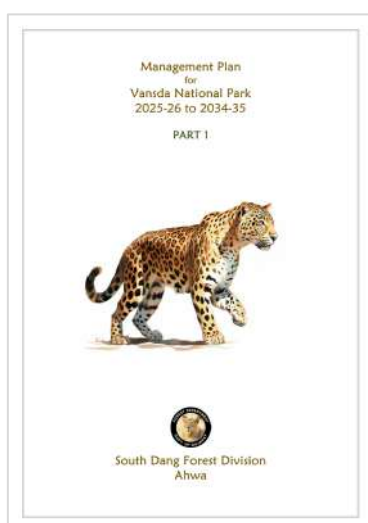
1. Establishment of Department of Wildlife Sciences funded as by Govt of Gujarat (2021)  
PI: Dr. Aadil Kazi, Co-PIs: Dr. Bimal Desai and Dr. S. K. Sinha
2. Conservation of Large Carnivores of Gujarat funded by Govt of Gujarat (2023)  
PI: Dr. Aadil Kazi, Co-PI: Dr. S. K. Sinha

### Submitted

1. Conservation of birds in Gujarat
2. Ecology of Dhole *Cuon alpinus* in Dangs
3. Mitigating Farmer-Leopard conflict in tribal areas of South Gujarat
4. Long-term monitoring and conservation of avifauna in South Gujarat
5. Ecology and behaviour of Owls (Strigiformes) in Vansda National Park
6. Population assessment of wild ungulates in Gir National Park and Sanctuary
7. Assessment of impact of road widening on roadkill and mammal distribution
8. Mitigating the impact of crop damage by wild animals in agriculture landscape
9. Estimation of carrying capacity for sustainable ecotourism in Vansda National Park
10. Assessment of ecological status of Vansda National Park for Critical Wildlife Habitat

### Completed

1. Identification of critical wildlife habitat in Vansda National Park (2021)
2. Zonal Master Plan for Eco Sensitive Zone of Purna Wildlife Sanctuary (2023)
3. Zonal Master Plan for Eco Sensitive Zone of Porbandar Bird Sanctuary (2023)
4. Zonal Master Plan for Eco Sensitive Zone of Girnar Wildlife Sanctuary (2024)
5. Zonal Master Plan for Eco Sensitive Zone of Vansda National Park (2024)
6. Management Plan for Purna Wildlife Sanctuary (2024)
7. Management Plan for Vansda National Park (2025)

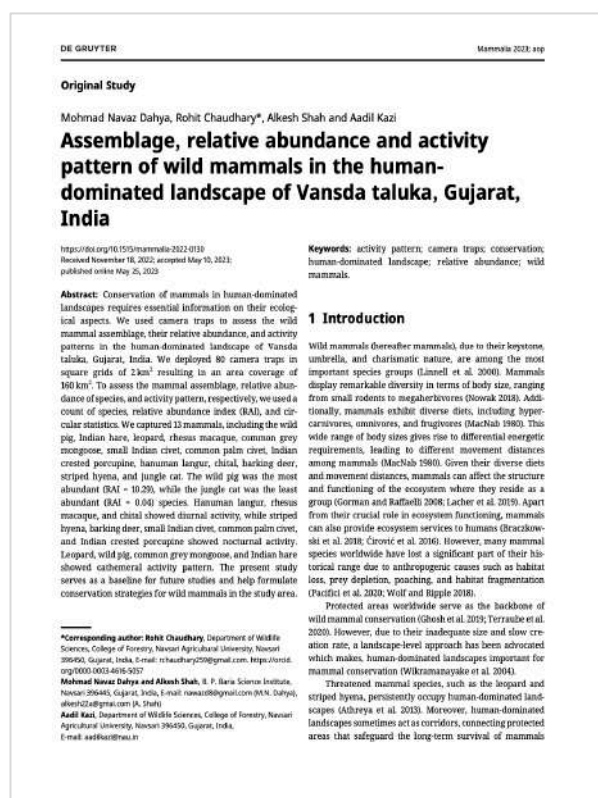






## Key Papers

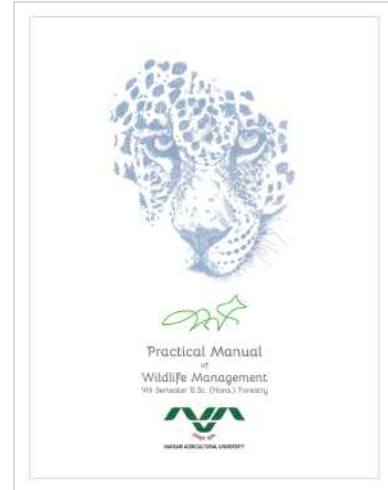
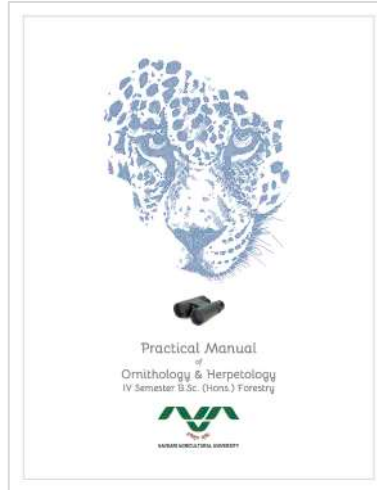
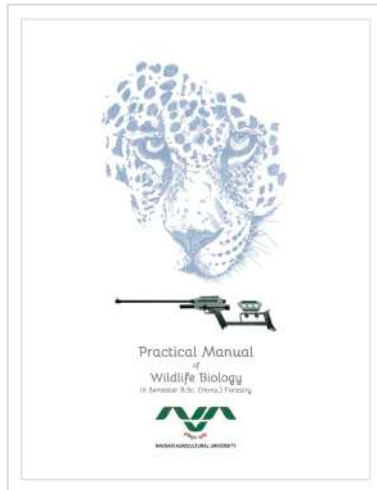
1. Dahya, M. I., Chaudhary, R., Kazi, A. A. and Shah, A. I. 2024. A note on female leopard rearing cubs in human dominated landscape of Vansda town. CATnews 81 Fall 2024.
2. Dahya, M. I., Chaudhary, R., Kazi, A. A. and Shah, A. I. 2023. Food habits and characteristics of livestock depredation by leopard (*Panthera pardus fusca*) in human dominated landscape of South Gujarat, India, Ethology Ecology & Evolution.
3. Patel, H., Chaudhary, R. Chaudhari, P. A. and Kazi, A. A. 2023. Status, Characteristics and Factors Affecting Roadkills on NH- 64: The Dandi Path, Navsari, Gujarat, India. Indian Journal of Ecology. 50 (5): 1276-1281.
4. Dahya, M. I., Chaudhary, R., Shah, A. I. and Kazi, A. A. 2023. Assemblage, relative abundance and activity pattern of wild mammals in the human- dominated landscape of Vansda taluka, Gujarat, India. Mammalia. <https://doi.org/10.1515/mammalia-2022-0130>
5. Mahajan, P., Chaudhary, R., Kazi, A. A. and Kandal, D. 2022. Spatial determinants of livestock depredation and human attitude towards wolves in Kailadevi Wildlife Sanctuary, Rajasthan, India. Frontiers in Ecology and Evolution. 10:855084..
6. Kazi, A. A., Rabari, D.N. , Dahya, M.I. and Lyngdoh, S. 2021. Reappearance of Dhole Cuon alpinus (Mammalia: Carnivora: Canidae) in Gujarat after 70 years. Journal of Threatened Taxa 13(6): 18655–18659. <https://doi.org/10.11609/jot.6415.13.6.18655-18659>
7. Dahya, M. I., Kazi, A. A., Shah, A. I. and Nayak, D. 2021. Assessment of human-leopard interaction in Vansda, South Gujarat. International Journal of Zoology and Applied Biosciences 6:186-193.
8. Dahya, M. I., Kazi, A. A., Shah, A. I. and Rajput, K. R. 2021. Livestock depredation by leopard (*Panthera pardus fusca*) in Vansda Taluka, South Gujarat. Journal of Entomology and Zoology Studies. 9(4): 218-226.





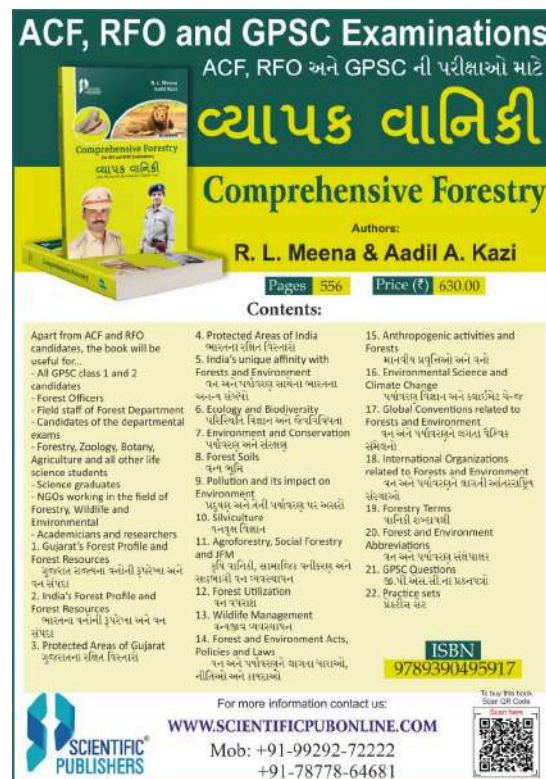
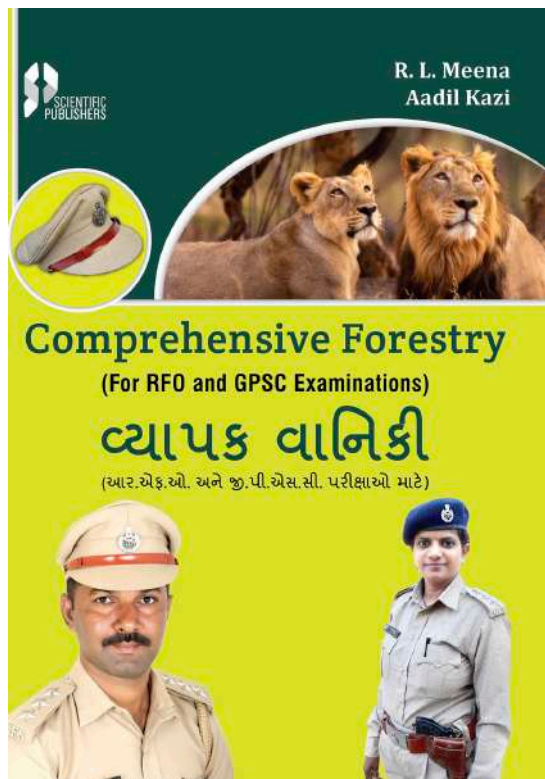
## Manuals

1. Wildlife Biology (2025). Authored by A. A. Kazi, P. A. Chaudhari and Sundaram Rajawat.
2. Ornithology and Herpetology (2025). by A. A. Kazi, P. A. Chaudhari and Sundaram Rajawat.
3. Wildlife Management (2025). by A. A. Kazi, P. A. Chaudhari and Sundaram Rajawat.
4. Nature and Wildlife Photography (2025). Aadil Kazi, Nevil Zaveri and Pravin Chaudhari
5. First Aid in Avian Health Management (2020). Compiled by A. A. Vagh, G. M. Pandya, A. A. Kazi and J. M. Patel.



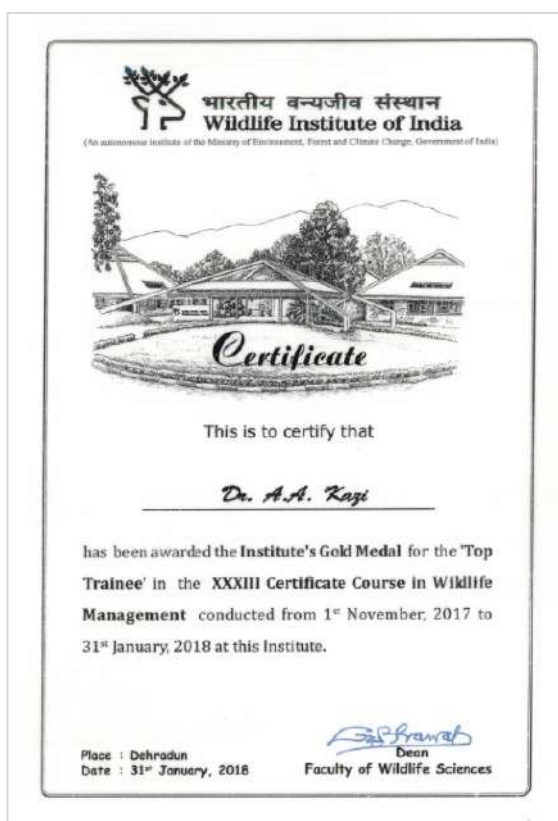
## Book

Comprehensive Forestry (2021, ISBN 978-9390495917). Pp. 556. R. L. Meena and Aadil Kazi.



## Awards

1. Institute's Gold Medal for Top Trainee and Institute's Silver Medal for Best All Round Wildlifer were awarded to A. A. Kazi by Wildlife Institute of India, Dehradun.
2. Director General's Baton was awarded to A. A. Kazi by National Cadet Corps, Ministry of Defence, Government of India.
3. National Award for Excellence in Education was awarded to A. A. Kazi by AMP, Mumbai
4. Best Teacher Award to A. A. Kazi by South Gujarat Chamber of Commerce and Industry.
5. Young Scientist Award to A. A. Kazi by Gujarat Association for Agricultural Sciences.
6. The Conservation Educator Award to A. A. Kazi in the field of wildlife protection, nature conservation and environment education by World Wide Fund for Nature.
7. University topper in M.Sc. Zoology was awarded to M. I. Dahya by Veer Narmad South Gujarat University.
8. Conservation Award to M. I. Dahya by Nature Conservation & Research Foundation.
9. Young Wildlife Conservationist Award to Pravin Chaudhari by WWFN.





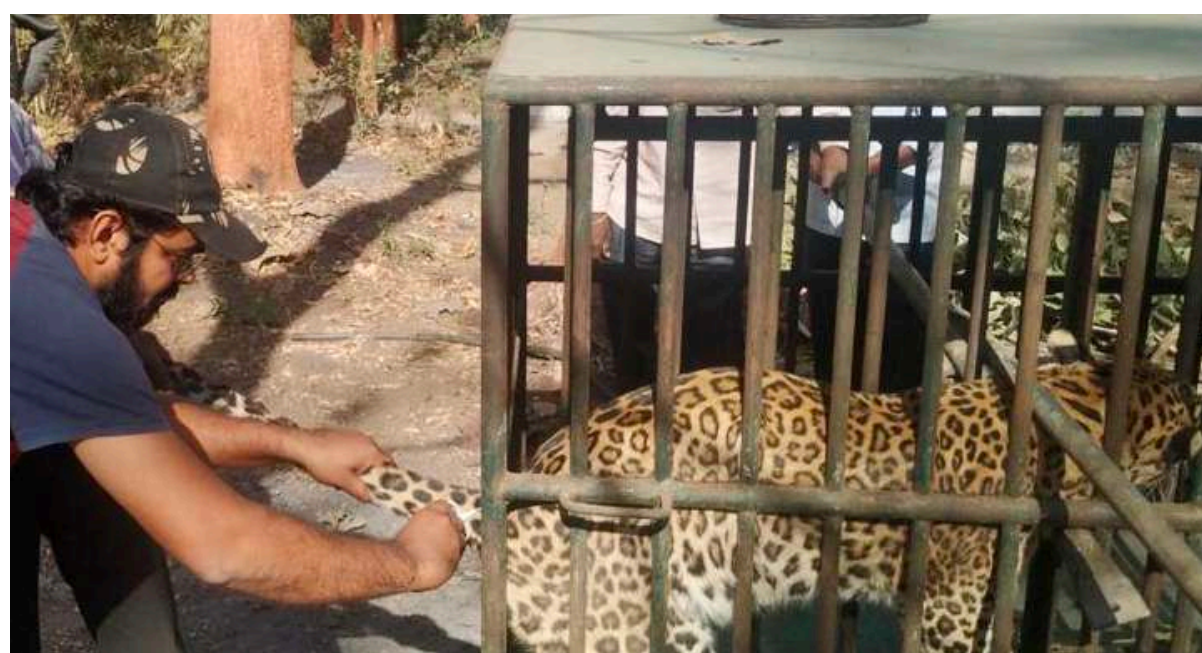






## Trainings

No.	Topic	Organizer	Duration
1.	Certificate Course in Wildlife Management	Wildlife Institute of India, Dehradun	3 months
2.	Disaster Management & Environmental Studies	University of North Bengal, Siliguri	21 days
3.	Temperate Agroforestry	SSKUASt- Kashmir, Srinagar	21 days
4.	Forest Management	BUAT, Banda	21 days
5.	Natural Resource Management	CSK HPKV, Palampur	12 days
6.	Orientation Course	UGC HRDC, Ahmedabad	28 days
7.	National Cadet Corps	Officers Training Academy Kamptee	3 months









## Conference and Workshop

No.	Topic	Organizer
1.	National Symposium on Vulture Conservation	Bird Conservation Society Gujarat
2.	Student Conference on Conservation Science	University of Cambridge, UK
3.	International Wetland Seminar	GEER Foundation, Gandhinagar
4.	International Tiger Conference	Wildlife Institute of India, Dehradun
5.	Global Leopard Conference	University of Oxford, UK
6.	COP 13 to CMS	UNEP & Govt of India
7.	Conservation Science	Indian Institute of Sciences, Bengaluru
8.	Asian Waterbird Census	Forest Department, Gandhinagar
9.	Global Bird Watchers' Conference	Gujarat Tourism, Gandhinagar
10.	Second International Conference on Indian Ornithology: Ecosystem Services and Functions of Birds	Salim Ali Centre for Ornithology & Natural History, Coimbatore
11.	International Conference on Indian Ornithology: Status of Indian Birds and their Conservation	Salim Ali Centre for Ornithology & Natural History, Coimbatore







## Professional Affiliation

- ❧ IUCN Commission on Education and Communication, Gland, Switzerland
- ❧ Ecological Society of America, Washington DC, USA
- ❧ Global Community Tourism Network, Toronto, Canada
- ❧ World Wide Fund for Nature, Gland, Switzerland
- ❧ The International Ecotourism Society, Washington DC, USA
- ❧ International Conservation and Biodiversity Team, Paris, France
- ❧ Society for Conservation Biology, Washington DC, USA
- ❧ Bombay Natural History Society, Mumbai, India
- ❧ Indian Institute of Technology, Gandhinagar, India
- ❧ Gujarat Ecological Education and Research Foundation, Gandhinagar, India
- ❧ Nature Conservation and Research Foundation, Gandhinagar, India
- ❧ Gujarat Forestry Research Foundation, Gandhinagar, India
- ❧ Bird Conservation Society of Gujarat, Ahmedabad, India
- ❧ Wildlife Crime Control Bureau, New Delhi, India
- ❧ Wildlife Institute of India, Dehradun, India



## Global Attachment

The Department of Wildlife Sciences is committed to engaging with local communities to address pressing issues related to human-wildlife conflict. Many communities struggle with interactions involving wild species such as snakes, leopards, feral pigs and various bird species, which can pose risks to both people and biodiversity. To mitigate these conflicts, the department actively collaborates with local populations, offering education, innovative solutions and conservation strategies to promote coexistence. Recognizing the importance of a holistic approach, the department ensures that its efforts are aligned with cutting-edge global advancements in wildlife management and conservation technology.

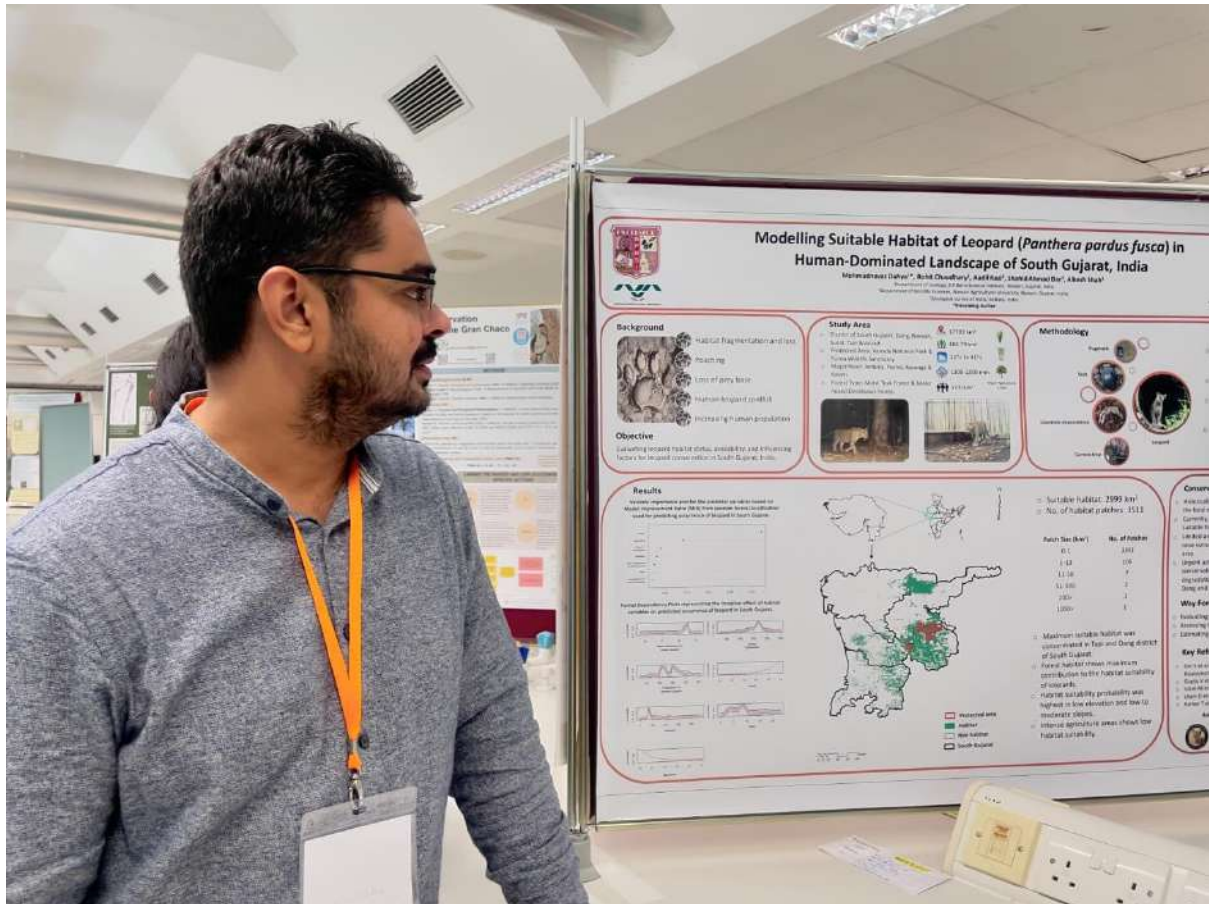
To strengthen its impact, the department maintains affiliations with esteemed international organizations dedicated to biodiversity conservation. Its contributions have gained international recognition, with its research being prominently featured in Biodiversity Mag, a prestigious publication of the International Conservation & Biodiversity Team based in Paris, France. Furthermore, the department's groundbreaking work on leopard conservation has led to invitations for its researchers to present their findings at the University of Cambridge, reinforcing its role as a leader in wildlife research.

Beyond academic engagements, the department has gained valuable exposure to globally renowned institutions and conservation sites. These include the University of Oxford in the United Kingdom, Crowdy Bay National Park, the Great Barrier Reef in Queensland, Australia, and the Taronga Institute, among others. Such interactions have not only broadened the department's research scope but have also facilitated the exchange of innovative conservation methodologies.

The department has also benefited from visits by distinguished experts, including Mr. David Manski and Ms. Shira Singer, Ms. Kristen Wiley and Ms. Moriah Morris from the United States. Their insights and expertise have contributed significantly to the department's growth, fostering new perspectives and strategies for advancing wildlife conservation efforts. Through these extensive knowledge-sharing initiatives, the Department of Wildlife Sciences continues to play a pivotal role in promoting sustainable coexistence between humans and wildlife while positioning itself as a globally connected center for excellence in conservation research.











## Aadil Kazi



Dr Aadil Kazi is Head of the Department of Wildlife Sciences  
Navsari Agricultural University, India



In today's time, in almost all the corners of the earth, nature and wildlife have been facing dire consequences due to numerous anthropogenic activities, and hence, more than ever in the history, wildlife conservation requires serious attention due to its dramatic decline and deep deterioration. There have been seldom a few governments — fewer than we think, and even see in media — who are seriously concerned about this ominous situation. However, the silver line is the brigade of conservationists and scientists, who are profoundly worried for the health of the planet and consequently apprehensive on quality of our own survival, has been proactive and effective more than ever in the history of conservation. The effective solutions and mitigations coupled with the highly recommended preventive measures have been initiated thankfully to deal with this crisis. The effectiveness of these efforts relies heavily on our approach, professionalism and appropriate strategies; and hence, the trained and professional manpower in different sectors of wildlife sciences is the need of the time.

India is a unique case of conservation. Despite world's most populated country, India harbours around 8 percent of the global biodiversity. The country is one of the 17 megadiversity countries of the world, and that too with high endemism. Naturally, all these do not have smooth functioning always. A large proportion of India's habitats and wildlife are threatened. Akin to the present global scenario, Indian wildlife faces enormous threats such as habitat loss, mining, livestock grazing, roads and railways, forest fires, poaching and illegal trade, diseases, excessive tourism, and above all the ever-increasing human-wildlife conflict. These threats are increasing day by day and the ways to mitigate them require scientific recommendations and committed conservation efforts.

Somehow, sometimes political will emerges from some noble hearts and the conservation world gets benefited. Perhaps this happens after decades of strenuous efforts, allowing a few rays of light to eliminate the darkness. Recognizing the urgent need for wildlife as a subject and the demand for trained professionals, India's federal government recommended that each forestry institution in the country should establish an independent department of wildlife sciences.

Following the directives, state government of Gujarat established an independent Department of Wildlife Sciences (DWLS) at our university in May 2021, aiming to impart comprehensive wildlife education to undergrad and postgrad students to develop qualified human resource. Moreover, the department has been tasked to carry out basic and advance research in wildlife conservation along with taking up farmers-oriented projects on human-wildlife conflict, issues prevailing in the country and collaborate with various agencies for wildlife monitoring, conservation and management. The department should strive to make modern scientific technology of wildlife monitoring and conservation accessible public, emphasizing community participation, particularly in the areas of sustainable ecotourism and livelihood upliftment.

### Education for transformation

Academic institutions are pivotal in cultivating the skilled human resources for effective wildlife conservation on a global scale. DWLS is at the forefront with a primary focus on imparting quality education to undergrads, and preparing a new generation of conservationists. To achieve this, DWLS offers a comprehensive curriculum that includes courses such as Wildlife Biology, Ornithology, Herpetology, and Wildlife

Management. These courses are designed to provide students a solid theoretical foundation complemented by practical exposure to the latest tools and techniques. Students engage in hands-on activities such as camera trapping, radio collaring, mapping animal movements, and the physical and chemical restraint of wild animals. Moreover, DWLS ensures that students are proficient in use of softwares for data analysis using R, ArcGIS, etc. These skills are essential for modern wildlife research and management, enabling students to analyse complex data sets and develop effective conservation strategies.

To further enrich their learning experience, DWLS mandates Study Tours to State Forests and an All India Study Tour. These exposure visits are critical, allowing students to gain firsthand experience of the challenges wildlife has been facing, especially due to human interventions. By interacting with professionals in the field and observing conservation efforts in various ecological settings, students develop a deeper understanding of the issues and potential solutions. Through this blend of rigorous academic coursework and practical training, DWLS equips students with the knowledge, skills and experience needed to make significant contributions to wildlife conservation efforts worldwide.













## Departmental Library

### A. Mammalogy

1. Carnivores of the world
2. Indian mammals a field guide
3. Mammals of Gujarat
4. Mammals of India
5. The secret lives of Indian mammals
6. The king of Gir
7. The Leopard in India

### B. Ornithology

8. About Indian Birds
9. Bharat na Pakshiyo
10. Birds of Delhi
11. Birds of Chandbagh
12. Birds of Gujarat
13. Birds of South Asia -I & II
14. Birds of the Himalayas
15. Birds of Indian Subcontinent, a field guide
16. Handbook for bird educators
17. Great Indian Bustard, A pictorial life story
18. Krushi Paryavaran ma Pakshio
19. Our birds
20. Pakshiyo ni bhaibandhi
21. Pakshiyo nu Vigyan
22. The book of Indian birds
23. Threatened Birds of India
24. Uttar Bharat na Pakshiyo

### C. Herpetology

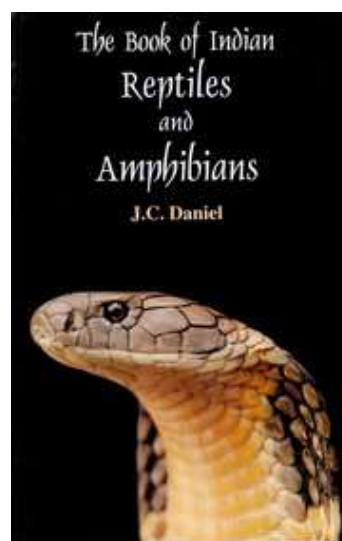
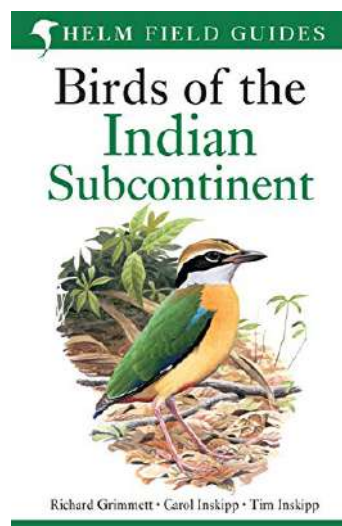
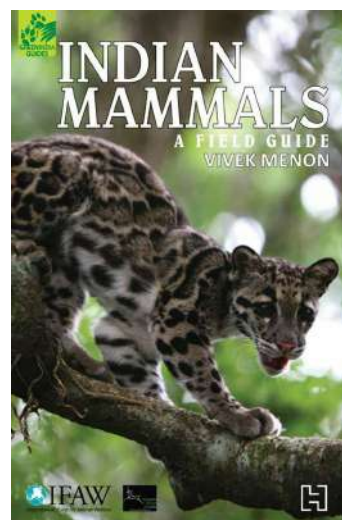
25. Diversity and Ecology of Amphibians of India
26. Common snakes of Delhi
27. Indian Snakes: A Field Guide
28. Reptiles of India
29. Sarpsandarbh
30. Snakes
31. Snakes and other reptiles and amphibians
32. Snakes of India: The Field Guide
33. The book of Indian Reptiles and Amphibians
34. The book of Snakes
35. Venomous Snakes of the World

### D. Lepidopterology

36. Butterflies of India
37. Butterflies on the roof of the world
38. The life story of a butterfly

### E. Ecology

39. Potential and Existing Ramsar Sites in India
40. Ecological and Environmental Reporting in India
41. Ecology and Environment
42. Jungle Trees of Central India
43. Natural Heritage of Gujarat
44. Trees of Delhi
45. Magical Biodiversity of India
46. Ecological Census techniques
47. Indian Forestry
48. The Biological Diversity Act



#### F. Natural History

49. Indica
50. Man Eater of Kumaon
51. The Origin of Species
52. The Sixth Extinction

#### G. Wildlife Science

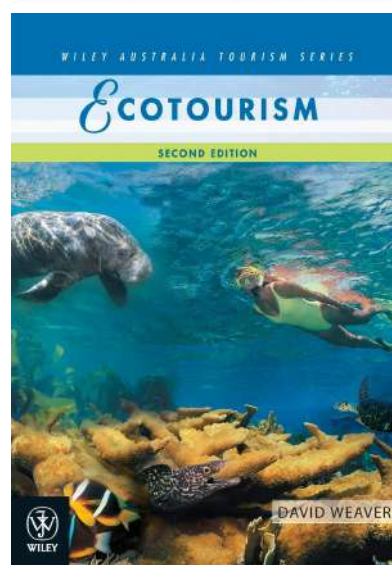
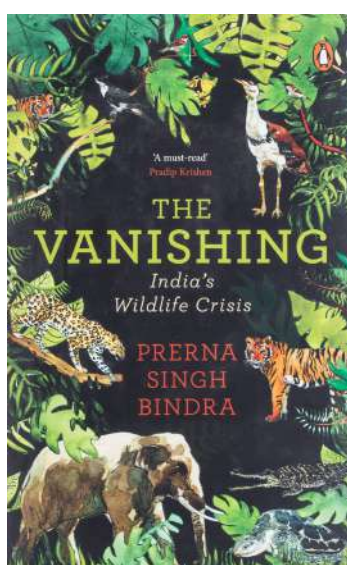
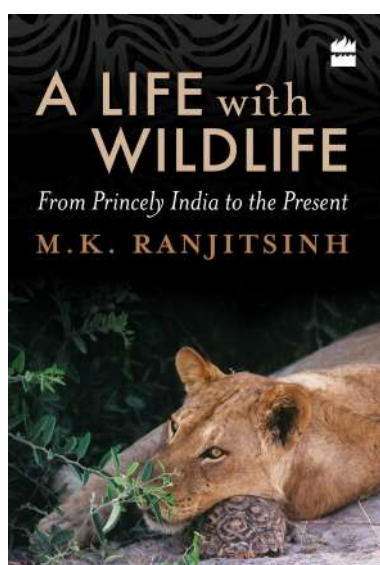
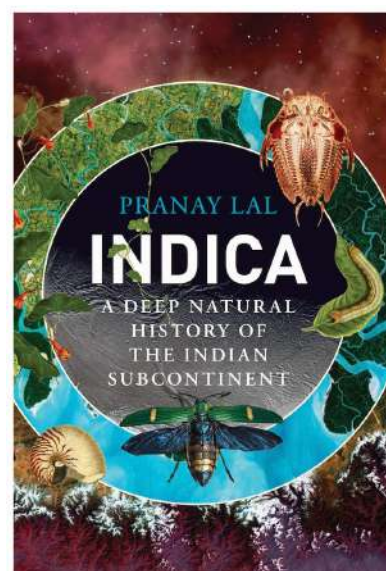
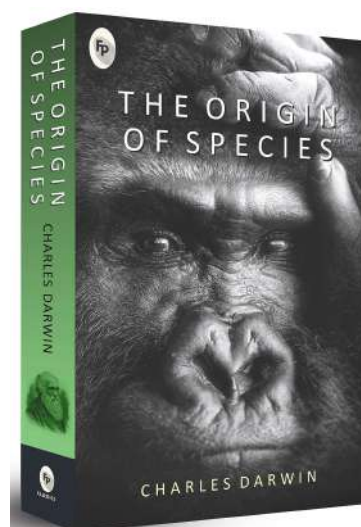
53. A life with Wildlife
54. Birds, Wild animals and Agriculture
55. Chordate Zoology
56. Fundamental of Wildlife Management
57. Handbook on Wildlife Law Enforcement in India
58. Indian Wildlife History
59. Management Plans for Gir Protected Area
60. Practical Zoology Vertebrate
61. Textbook of Wildlife Management
62. The Vanishing
63. The Wildlife Protection Act 1972
64. Wild Fauna of Gujarat
65. Wildlife Biology
66. Wild Wisdom Quiz
67. Wildlife and Forest Conservation
68. Wildlife Crime an Enforcement Guide
69. Wildlife Law for Rangers

#### H. Ecotourism

70. Ecotourism
71. Ecotoursim- a guide for planners and managers I & II
72. Gujarat Naa Vanya Mukamo
73. Heritage Gems of Gujarat

#### I. Wildlife Photography

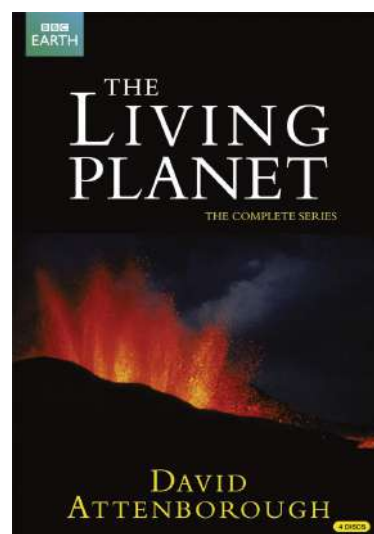
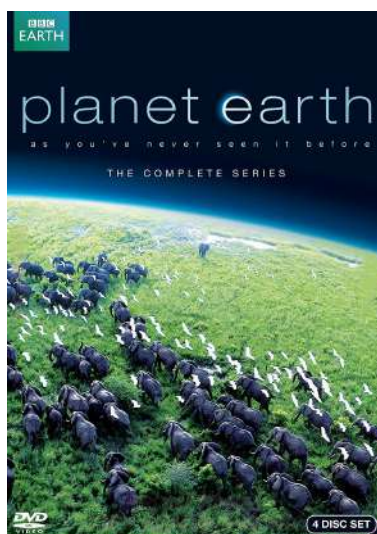
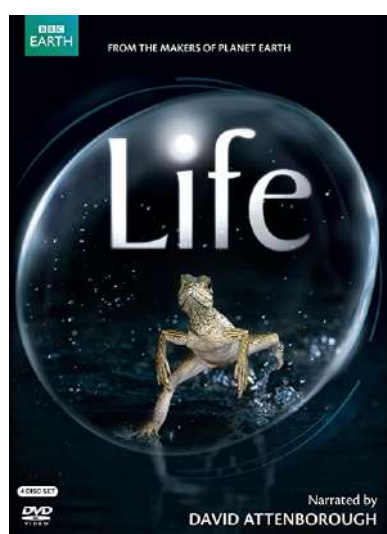
74. Art of Seeing: Creative Nature Photography
75. Color
76. Photographing Nature
77. Practical Photography
78. The Art of Color Photography
79. The Camera
80. The Complete Photographer
81. The Encyclopedia of Photography
82. Visual Poetries





## Departmental Cybrary

- |   |                               |
|---|-------------------------------|
| 1. 100 Greatest Discoveries                                       | Discovery Channel             |
| 2. BBC Life & Planet Earth  | BBC                           |
| 3. Birds Video Guide of Vansada National Park                     | Gujarat Forest Department     |
| 4. Black Drongo   | GEER Foundation               |
| 5. Born to Fly  | GEER Foundation               |
| 6. Call of Indian Bird  | Nature Club Surat             |
| 7. Dariyai Jeevshrushti   | Geer Foundation               |
| 8. Destination Khadija  | Tourism Department of Gujarat |
| 9. Earth: Power of the Planet                                     | BBC                           |
| 10. Envis: Wildlife and Protected Area 1997-2015                  | WII                           |
| 11. Gidh- Sangarsmay Udan   | GEER Foundation               |
| 12. Great Indian Bustard  | BNHS                          |
| 13. Great Wonders of the World                                    | Reader Digest                 |
| 14. Indian Ornithology  | SACON                         |
| 15. Marine Biodiversity of Marine National Park and Gulf of Kutch | GEER Foundation               |
| 16. Natural Heritage of Gujarat                                   | GEER Foundation               |
| 17. Natural History Collection                                    | BBC                           |
| 18. Preserve the Future: Conserving India's Wild Heritage         | British Council               |
| 19. Rann no Vaibhav   | Tourism Department of Gujarat |
| 20. Savaj Hatu Sabda  | GEER Foundation               |
| 21. Sinh Samarajya  | Gujarat Forest Department     |
| 22. The Living Planet   | BBC                           |
| 23. Van no Vaibhav  | Tourism Department of Gujarat |
| 24. Video Guide to Common Birds of India                          | Nature Club Surat             |
| 25. Wild Periyar  | Periyar Foundation            |
| 26. Wings of Nature   | GEER Foundation               |



## Equipments



Dart Gun



Camera Trap



Spotting Scope



Binoculars



Range Finder



GPS



Night Vision Binoculars



Walkie Talkie



Focus Torch



Head Torch



Microscopes



DSLR Camera with Lens



Densiometer





### Velocity Radar Gun



Body Armour & Catch all Pole



## Safety Shoes



## Bird Feeders



## Bird Nests



## Rescue Bag



## Snake Catchers and Tongs



Tent



Sleeping Bag



### Field Track Suit



Rucksack

