Wildlife Institute of India: Mandate, Achievements & Activities

Nature is our Password, Conservation the Creed
BACKGROUND

- Established as an attached office in May, 1982.
- Granted autonomous status by the Union Cabinet in November, 1985.

OUR MISSION......

- To nurture the development of Wildlife Science and promote its application in conservation, in consonance with our cultural and socio-economic milieu
MANDATE......

To build capacity through training, education and research in the field of wildlife conservation and advice Central and State Governments in wildlife matters.
## WII - Governance

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chairperson</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WII-Society</strong></td>
<td>Chaired by Hon’ble Minister of Environment, Forest and Climate Change, Government of India</td>
</tr>
<tr>
<td>(49 Members)</td>
<td></td>
</tr>
<tr>
<td><strong>WII-Governing Body</strong></td>
<td>Chaired by Secretary, Ministry of Environment, Forest and Climate Change, Government of India</td>
</tr>
<tr>
<td>(21 Members)</td>
<td></td>
</tr>
<tr>
<td><strong>WII-Finance Committee</strong></td>
<td>Chaired by Director General of Forests &amp; Special Secretary, MoEFCC</td>
</tr>
<tr>
<td>(7 Members)</td>
<td></td>
</tr>
<tr>
<td><strong>WII-Training, Research &amp; Academic Council</strong></td>
<td>Chaired by an eminent person in the field of wildlife nominated by President, WII Society</td>
</tr>
<tr>
<td>(29 Members)</td>
<td></td>
</tr>
</tbody>
</table>
GLIMPSES OF CAMPUS BIODIVERSITY

- ~616 spp. of vascular plants
- 314 species of birds
- 20 species of mammals
- 22 species of snakes
- 4 spp. of turtles
- 10 spp. of fish
- 90 species of butterflies
- 17 families & 190 species of moths
- 102 species of spiders
- 26 species of Ants
- 18 species of Borers (Coleoptera)
Capacity Building for Wildlife Conservation through Training

**Regular Courses for in-service forest officials**

- 10-month Postgraduate Diploma Course in Advanced Wildlife Management
  - 41 courses; 727 professionals including 117 foreign trainees from 15 countries

**Foreign Trainees in Postgraduate Diploma Course**

<table>
<thead>
<tr>
<th>Afghanistan</th>
<th>Kazakhstan</th>
<th>Myanmar</th>
<th>Tanzania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhutan</td>
<td>Laos</td>
<td>Nepal</td>
<td>Vietnam</td>
</tr>
<tr>
<td>Cambodia</td>
<td>Malaysia</td>
<td>Palestine</td>
<td>Bangladesh</td>
</tr>
<tr>
<td>China</td>
<td>Maldives</td>
<td>Sri Lanka</td>
<td></td>
</tr>
</tbody>
</table>
Capacity Building for Wildlife Conservation through Training

Regular Courses for in-service forest officials

- 3-month Certificate Course in Wildlife Management
  - 35 courses; 627 professionals including 167 foreign trainees from 16 countries

Foreign Trainees in Certificate Course

<table>
<thead>
<tr>
<th>Bhutan</th>
<th>Laos</th>
<th>Pakistan</th>
<th>Vietnam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cambodia</td>
<td>Malaysia</td>
<td>Singapore</td>
<td>Zambia</td>
</tr>
<tr>
<td>China</td>
<td>Mauritius</td>
<td>Sri Lanka</td>
<td>Bangladesh</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Nepal</td>
<td>Thailand</td>
<td></td>
</tr>
</tbody>
</table>
Customized Training Courses…

- Attachment of Customs & Central Excise Probationers from NACEN for Training (2 weeks)
- Training module on Wildlife and Biodiversity Conservation for the IFS Officers as part of their Mid-Career Training (MCT) Programme at the IGNFA, Dehradun
- Zoo Management Course (1 week)
- IFS Compulsory Course (1 & 2 weeks)
- Sensitization Programmes for Central Military and Para-military Organizations
- Study tours for PA managers of neighboring countries
Capacity Building for Wildlife Conservation through Education

2-year Masters Course in Wildlife Science

- Courses completed: 16
- Students passed out: 165

Foreign Students in M.Sc. Course

- Guyana
- Malaysia
- Mongolia
- Myanmar
- Nepal
- Sri Lanka
Capacity Building for Wildlife Conservation through Research…

- 81 On-going Research Projects
- 124 Ph.D. thesis awarded
- 10 Ph.D. thesis submitted
- 59 Ph.D. registered students
Institute’s Alumni...
<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Researchers</td>
<td>250+</td>
</tr>
<tr>
<td>Faculty Members</td>
<td>5</td>
</tr>
<tr>
<td>M.Sc. (Wildlife Science)</td>
<td>10</td>
</tr>
<tr>
<td>M.Sc. (Heritage Cons. &amp; Mgmt)</td>
<td>04</td>
</tr>
<tr>
<td>Diploma Officer Trainees</td>
<td>3</td>
</tr>
<tr>
<td>Certificate Officer Trainees</td>
<td>5</td>
</tr>
<tr>
<td>Office staff</td>
<td>17</td>
</tr>
<tr>
<td>Project staff</td>
<td>15</td>
</tr>
</tbody>
</table>
Major contributions in the field of capacity building through training, research and conservation by Wildlife Institute of India
Ecological Gap Analysis...

<table>
<thead>
<tr>
<th>Category</th>
<th>1988</th>
<th>2019 (November, 2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nos.</td>
<td>Area (km(^2))</td>
</tr>
<tr>
<td>National Parks</td>
<td>54</td>
<td>21,003</td>
</tr>
<tr>
<td>Wildlife Sanctuaries</td>
<td>372</td>
<td>88,649</td>
</tr>
<tr>
<td>Community Reserve</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Conservation Reserve</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Protected Areas</td>
<td>426</td>
<td>109,652</td>
</tr>
</tbody>
</table>

*Three Button Islands National Parks (North Button Island, Middle Button Island & South Button Island) of Andaman & Nicobar Islands have been merged with Rani Jhansi Marine National Park.*
### Management Effectiveness Evaluation of PAs (2018-2019)

**How secure are Protected Areas...?**

<table>
<thead>
<tr>
<th>Total No. of Protected Areas Evaluated</th>
<th>Overall MEE Score (%)</th>
<th>Evaluation Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 (Good)</td>
<td>61</td>
<td>Very Good</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good</td>
</tr>
<tr>
<td></td>
<td>18 (14%)</td>
<td>Satisfactory</td>
</tr>
<tr>
<td></td>
<td>42 (34%)</td>
<td>Poor</td>
</tr>
<tr>
<td></td>
<td>62 (50%)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>03 (02%)</td>
<td></td>
</tr>
</tbody>
</table>
Conservation of Species

Flagship, Rare, Endangered and Endemic
Major Contributions…

◆ All India Monitoring of Tiger Co predators, Prey and Habitat; Mapping of Corridors/Connectivity in 17 Tiger Range States (2005-06, 2009-10, 2013-14, 2018-19)

◆ Technical Support for Reintroduction Programmes (e.g. Tiger in Sariska and Panna TR, Indian Gaur in Bandhavgarh)
Management of Large Carnivores: Lion

- Ecological monitoring, conservation breeding, wildlife health, interpretation and public engagement to support ongoing Gir Lion conservation efforts.
Ecology & Management of Alpine Habitats
Development of Wildlife Forensics Capability

◆ Species identification on morphological attributes
◆ DNA sequence profile of 65 Indian wild animal species have been prepared for use in species identification
Mainstreaming marine biodiversity conservation into production sectors in India
Impact Assessment Studies...

- EIA Studies - MoEF/ Supreme Court/ NGT Directed (e.g. Cumulative Assessment of Impact of HEP on Alakananda and Bhagirathi Rivers; Minimum Water Flow in Chambal River; Impact of sand and boulder mining, Uttarakhand; Road Ecology, Madhya Pradesh and Maharashtra; Nuclear Power Project, Haryana
Building Capacity for Biodiversity-inclusive Impact Assessment
On-going and New Initiatives in Wildlife Conservation and Management at WII
Assessment and Monitoring of Climate Change Effects on Wildlife Species and Ecosystems for Developing Adaptation and Mitigation Strategies in the Indian Himalayan Region – DST sponsored
Capacity Building in Integrated Management of Coastal and Marine Biodiversity in India (2014-2019)

GIZ assisted

♦ Three Certificate Courses
  ♦ Target Group: Range Forest Officers
  ♦ One Month Duration
  ♦ Training includes the monitoring of biodiversity under water (scuba diving)

♦ Three Refresher Courses
  ♦ Target Groups: Indian Forest Service Officers
  ♦ One week duration

♦ Three Training of Trainers Courses
  ♦ Target Groups: Training Institutes
  ♦ Three days duration

♦ Three Years Program with support of GIZ
Objective

*Develop and promote new models of conservation at the landscape scale through enhanced capacity and institution building for mainstreaming biodiversity conservation outcomes*
Satellite tracking of Amur Falcon (2015-2019)…
Collaborative Activities with National Tiger Conservation Authority (2005-2019)

- All India Monitoring of Tiger Co predators, Prey and Habitat (4 cycles) (2005-06, 2009-10, 2013-14, 2018-19)
- Mapping of Corridors/Connectivity in 17 Tiger Range States
- Technical Support for Reintroduction Programmes (e.g. Tiger in Sariska and Panna TR)
- M-STrIPES Planning and Roll out
- Modern Technology Applications ~ Radio/Satellite Collaring; UAVs, Molecular characterization
- Spatial database on tiger for decision-making on developmental projects.
- Management Effectiveness Evaluation of Tiger Reserves (4 cycles)
In recognition of India’s capacity in the thematic area of Natural World Heritage, UNESCO has established first centre on Natural Heritage at WII.

Mandate of the Centre is to enhance capacity of professionals from 50 countries in the Asia-Pacific Region, presently having 67 Natural World Heritage Sites.

Nomination Dossiers have been prepared for Khangchendzonga National Park (KNP), Bhitarkanika Conservation Area and are under preparation for Keibul Lamjao NP and Kailash Sacred Landscape.

KNP, Sikkim has been recommended for inscription as World Heritage Site- India first ‘mixed’ site

Initiation of a new M.Sc. Course on Heritage Conservation and Management in July, 2019
Endangered Species Recovery Programme 
(2016-2021)

Funding under CAMPA/National CAMPA Advisory Council

1. Establishment of Ganga Aqualife Conservation Monitoring Centre
2. Planning Aquatic Species Restoration For Ganga River
3. Capacity Building of Forest Department and other Stakeholders
4. Establishment of Rescue and Rehabilitation Centres
5. Community based Conservation Programmes for Species Restoration in Ganga River
6. Nature Interpretation and Education for Biodiversity Conservation of Ganga River

Wildlife Institute of India

WII – NMCG Initiative
Ganga Darpan Interpretation Centre, Sarnath
Ganga Tarini (Mobile Museum), Varanasi
The IPBES has been established by 4 UN agencies viz. UNEP, UNDP, FAO and UNESCO with the mandate to strengthen the science-policy interface for biodiversity and ecosystem services for the conservation and sustainable use of biodiversity, long-term human well-being and sustainable development.

21 experts from India have been selected to provide inputs in the Asia-Pacific Regional assessment of which 6 are from WII.

Director, Wildlife Institute of India has been selected as the UN-IPBES Bureau Member (Asia-Pacific Region) for a 3-year term (2019-2022) and also as Co-Chair of the IPBES Task Force on Capacity Building and Policy Support and Tools.
Current International collaborations

1. Colorado State University
2. University of Chicago
3. University of British Columbia, Canada
4. United Nations University, Japan
5. North Carolina State University (NCSU)
6. International Bear Association
7. WWF-International
8. IUCN
9. World Bank Consortium
10. IAIA-CBBIA
11. UNESCO
12. GBIF
13. ICIMOD & LADHC
14. Smithsonian Institution
15. NINA, Norway
16. UNDP-GEF
17. The Mohamed bin Zayed Species Conservation Fund
18. Zoological Society of London (ZSL)
19. GIZ, Germany
20. INRA, France
21. National Geographic Society (NGS)
Conferment of the status of Institute of National Importance (INI) to WII by an Act of Parliament

◆ Inter-ministerial consultations completed and concurrence on draft Cabinet Note and draft WII-INI Bill 2019 received from all 5 Ministries of Government of India including Niti Aayog

◆ Shri Prakash Javadekar, Hon’ble MEF&CC has granted final approval for sending the proposal for Union Cabinet’s approval on 15 June, 2019
The Path Ahead…

Research

Management

Cont’d…
The Path Ahead...

Effective Natural Resource Conservation

Policy

Research

Management
Thank You!

Nature Nurtures...
Conserve Nature

Together we can build a frame work that nourishes and not depletes our natural assets...

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Thank You!