Biodiversity Research in Sikkim

Status Report 1995-2010 on Biodiversity Research in Sikkim

1995 – 1996:

PHYSICAL:
1. Expedition to Lashar- Sebu La-Yumesamdong, Tembawa and Dongkya La, Chho Lhamo & other lakes and wetlands in North Sikkim with Bird Ringing using professional bird trapper Ali Hasan
2. Lowland Forest survey
3. Bird Ringing in Kyongnosla Alpine Sanctuary, Fambong Lho Wildlife Sanctuary and Himalayan Zoological Park
4. Totally 311 birds of 56 species ringed
5. Presented 2 papers on Kiang at Metapopulations Meeting in France and Trans-Himalayan Avifauna at Salim Ali international centenary seminar in Coimbatore
6. Nature Education programmes

FINANCIAL:

Budget Head: 2406-02-110(1) 8 Training & Research

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 AWC &amp; Survey of Butterflies in high and low altitudes including Expedition to Sebu La, Tembawa and Dongkya La including Bird Ringing</td>
<td>0,53,330/-</td>
</tr>
<tr>
<td>2 Purchase of Ringing Equipment and accessories</td>
<td>0,40,000/-</td>
</tr>
<tr>
<td>3 Purchase of film, etc.</td>
<td>0,33,000/-</td>
</tr>
<tr>
<td>4 Contingencies</td>
<td>0,07,600/-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1,33,930/-</strong></td>
</tr>
</tbody>
</table>

1996 – 1997:

PHYSICAL:
1. Technical Reports on: Current Information on wildlife of Sikkim
   Avifauna of trans-Himalayan & Alpine grasslands
   Wetlands & Waterbirds of Sikkim
   Status of Kiang
   Lowland Forest Survey
2. Paper presentations at Pan-Asian Ornithological Congress & 13th BirdLife Asia Conference at Coimbatore
3. Nature Education
4. Botanical Expedition with RBGE-Edinburgh, to Lashar-Sebu La-Yumesamdong

FINANCIAL:

Budget Head: 2406-02-110-(47)-2 Other Administrative Expenses (Plan)

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Pre-winter and Post-winter survey of migratory species</td>
<td>0,49,500/-</td>
</tr>
<tr>
<td>2 Purchase of Ringing Equipment and accessories</td>
<td>0,30,000/-</td>
</tr>
<tr>
<td>3 Contingencies</td>
<td>0,04,470/-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>0,84,246/-</strong></td>
</tr>
</tbody>
</table>
1997 – 1998:

PHYSICAL:
1. Poster paper at International Galliformes Symposium-Malaysia on Status of Galliformes in Sikkim
2. Scientific publications on Tibetan Gazelle, Black-necked Crane, Tiger and Western Grey-headed Thrush
3. Nature Education

FINANCIAL: **Budget Head: 2406-02-110-(47)-2 Other Administrative Expenses (Plan)**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Wildlife Census in and around Protected Areas</td>
<td>1,17,194/-</td>
</tr>
<tr>
<td>2. Monitoring of Kiang and other wildlife in Proposed Chho Lhamo Cold Desert Wildlife Sanctuary</td>
<td>88,256/-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2,01,450/-</strong></td>
</tr>
</tbody>
</table>

1998 – 1999:

PHYSICAL:
1. Biodiversity Survey of Maenam Wildlife Sanctuary
2. Nature Education, scientific and popular articles

FINANCIAL: **Budget Head: 2406-02-110-(47)-2 Other Administrative Expenses (Plan)**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due to cut of Rs. 1,50,000/- last year this whole year was spent for re-approvals and sanctions of last year’s liabilities</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>-</strong></td>
</tr>
</tbody>
</table>

1999 – 2000:

PHYSICAL:
1. Survey of Kyongnosla Alpine Sanctuary, Takin, Tiger
2. Survey of Proposed Chho Lhamo Cold Desert Wildlife Sanctuary

FINANCIAL: **Budget Head: 2406-02-110-90 Propagation & Conservation of Wildlife Products**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Survey of Kyongnosla Alpine Sanctuary</td>
<td>27,600/-</td>
</tr>
<tr>
<td>2. Purchase of Scanner &amp; UPS</td>
<td>29,120/-</td>
</tr>
<tr>
<td>3. Field Assistants in Kyongnosla Alpine Sanctuary</td>
<td>25,944/-</td>
</tr>
<tr>
<td>4. Repair of vehicle</td>
<td>30,000/-</td>
</tr>
<tr>
<td>5. Wages of computer assistant</td>
<td>16,549/-</td>
</tr>
<tr>
<td>6. Wages of wildlife watcher at Chho Lhamo</td>
<td>29,200/-</td>
</tr>
<tr>
<td>7. Purchase of office equipment, etc.</td>
<td>15,000/-</td>
</tr>
<tr>
<td>8. Upgradation of Computer</td>
<td>20,000/-</td>
</tr>
<tr>
<td>9. Travel to Bombay Natural History Society for consultation</td>
<td>10,000/-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2,03,413/-</strong></td>
</tr>
</tbody>
</table>
Chapter III: Biodiversity Research in Sikkim

2000 – 2001:

FINANCIAL:
Budget Head: 2406-02-110-90 Propagation & Conservation of Wildlife Products

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Liabilities of last financial year)</td>
<td>(0,75,224/-)</td>
</tr>
<tr>
<td>Wages of computer assistant</td>
<td>0,17,155/-</td>
</tr>
<tr>
<td>Wages of wildlife watcher at Chho Lhamo</td>
<td>0,29,200/-</td>
</tr>
<tr>
<td>Purchase of Film, Slide Projector</td>
<td>0,29,900/-</td>
</tr>
<tr>
<td>Maintenance of Computer, etc.</td>
<td>0,15,000/-</td>
</tr>
<tr>
<td>Purchase of Printer (HP Deskjet 6L Gold)</td>
<td>0,25,000/-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1,91,449/-</strong></td>
</tr>
</tbody>
</table>

2001 – 2002:

PHYSICAL:
1. CONTINUATION OF ANNUAL RESEARCH ACTIVITIES
2. MAINTENANCE OF TWO BUTTERFLY PARKS AT SARAMSA & MIDDLE CAMP FOREST PARKS, EAST SIKKIM: Two Butterfly Parks were created by the Wildlife Circle in 1992-93 and have since then not been looked after due to various constraints of the department. Hence there was an urgent need to repair the damaged and dilapidated signboards in these areas, which are popular picnic spots, as they reflect badly on the image of the department, repair and painting of larval food plant enclosures, maintenance and procurement of important food plants for the Park.
3. MAINTENANCE OF MUSEUM SPECIMENS FROM DEER PARK: The Museum collection housed at the Rustomji Deer Park, Gangtok, is in urgent need of maintenance of the rare specimens several of which are of Schedule I species protected under the WL (P) Act. As the care and maintenance of the same has been assigned to the Research Wing of the Department, some urgently required chemicals were purchased.

FINANCIAL:
Budget Head: Biodiversity Research

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wages of Computer Assistant at Gangtok</td>
<td>20,195/-</td>
</tr>
<tr>
<td>Wages of Wildlife Watcher at proposed Chho Lhamo plateau Cold Desert</td>
<td>35,280/-</td>
</tr>
<tr>
<td>Computer maintenance, Floppies, paper, print cartridges, etc.</td>
<td>L.S. 25,000/-</td>
</tr>
<tr>
<td>Purchase of slide sheets, film, developing, enlarging, etc.</td>
<td>L.S. 30,000/-</td>
</tr>
<tr>
<td>Purchase of office stationery, including LFY liabilities (15,325/-)</td>
<td>L.S. 25,000/-</td>
</tr>
<tr>
<td>Repair of three signboards</td>
<td>05,000/-</td>
</tr>
<tr>
<td>Repair and painting of larval food plant enclosures</td>
<td>20,000/-</td>
</tr>
<tr>
<td>Maintenance and procurement of important food plants</td>
<td>05,000/-</td>
</tr>
<tr>
<td>Purchase of chemicals (Turpentine, Potassium Hydroxide, Heater, Naphthalene, Cotton, Brushes, Scrubber, Drum, Bucket, Trays)</td>
<td>L.S. 30,000/-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1,95,475/-</strong></td>
</tr>
</tbody>
</table>
Chapter III: Biodiversity Research in Sikkim

2002 – 2003:
FINANCIAL:
Budget Head: Biodiversity Research

<table>
<thead>
<tr>
<th>BIODIVERSITY RESEARCH (WILD LIFE) ACTIVITIES</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Continuation of monitoring activities in Chho Lhamo proposed cold desert protected area and Computerisation of data including regular office duties (en bloc 2 M/R wages at Gangtok and Chho Lhamo)</td>
<td>57,305</td>
</tr>
<tr>
<td>2. Purchase of essential stationeries, including new color monitor for computer</td>
<td>30,000</td>
</tr>
<tr>
<td>3. Re-printing of all old negatives, sorting and filing/documentation of film, preparing fresh set of enlargements, blow-ups, laminations of wildlife and other photographs as desired by PCCF</td>
<td>56,280</td>
</tr>
<tr>
<td>4. Wall Display cabinet for Wild Life photographs, reports etc.</td>
<td>15,000</td>
</tr>
<tr>
<td>5. Maintenance of equipments (repair of slide projector, AMC for computer, AMC for printer, UPS-cum-Inverter).</td>
<td>40,000</td>
</tr>
<tr>
<td>Contingencies</td>
<td>01,415</td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,00,000</td>
</tr>
</tbody>
</table>

2003 – 2004:
FINANCIAL:
Budget Head: Biodiversity Research

<table>
<thead>
<tr>
<th>BIODIVERSITY RESEARCH (WILD LIFE) ACTIVITIES</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Continuation of monitoring activities in Chho Lhamo proposed cold desert protected area and Computerisation of data including regular office duties (en bloc 2 M/R wages at Gangtok and Chho Lhamo)</td>
<td>57,462</td>
</tr>
<tr>
<td>2. Maintenance of equipments (Slide projector, Overhead Projector, Computer, Printer, UPS &amp; batteries) Purchase of Laserjet toner cartridge, floppies and CDs, and other Office Stationeries</td>
<td>30,000</td>
</tr>
<tr>
<td>3. Purchase of laptop computer for data entry in field</td>
<td>90,000</td>
</tr>
<tr>
<td>4. Continuation of Re-printing of old negatives, sorting and filing/documentation of film, enlargements, blow-ups, lamination, etc. of wildlife and other photographs as desired by PCCF</td>
<td>22,540</td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,00,002</td>
</tr>
</tbody>
</table>

PUBLICATIONS ON ALPINE, TRANS-HIMALAYAN AREAS IN SIKKIM SINCE 1990 Usha Lachungpa

A) Individual Authorship:

B) Joint authorship:

C) Popular Articles, Reports
8. (2000): Natural Sikkim as it is today. Sikkim Express Vol. 25(56): 3

2004-2005:

FINANCIAL:

**Budget Head: Biodiversity Research**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 WAGES:</strong> Continuation of monitoring activities in Tso Lhamo proposed cold desert protected area and Computerisation of data including regular office duties (<em>en bloc</em> 2 M/R wages at Gangtok and Tso Lhamo) (21st March to 20th Sept. '04 Rs. 47053) (21st Set. '04 to 20th March '05 Rs. 47422)</td>
<td>94,475</td>
</tr>
</tbody>
</table>

II. **OFFICE, LABORATORY AND FIELD RESEARCH**

| 1 | Purchase and maintenance of essential equipments, chemicals, etc. | 28,000 |
| 2 | Re-printing of all old negatives, sorting and filing/documentation of film, preparing fresh set of enlargements, blow-ups, laminations of wildlife and other photographs as desired by PCCF | 26,525 |
| 3 | Stakeholders’ Meeting Tso – Lhamo –Cold Desert Conservation Reserve | 25,000 |
| 4 | Contingencies | 1000 |

**TOTAL** | **175000** |
### 2005-2006

**Budget Head:** 2406-01-01-004-62-62-00-74 Wildlife (Biodiversity) Research (P)

#### I. ENBLOC WAGES

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WAGES:</strong> Continuation of monitoring activities in Tso Lhamo proposed cold desert protected area and Computerisation of data including regular office duties (en bloc 2 M/R wages at Gangtok and Tso Lhamo) <em>(Sanctioned vide no.14/GOS/FEWMD/Wages, dated: 28th April 2005)</em></td>
<td>95,630</td>
</tr>
</tbody>
</table>

#### II. OFFICE, LABORATORY AND FIELD RESEARCH

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Purchase and Maintenance of essential equipments like projectors, computer; computer accessories, toner cartridges, white-board marker pens, chemicals, print-outs of reports, color printouts and enlargements of wildlife photos, lamination, etc.</td>
<td>55,000</td>
</tr>
<tr>
<td>2 Upgradation of Office Computer from P3 to P4</td>
<td>20,000</td>
</tr>
<tr>
<td>3 Purchase of Vacuum Cleaner for dust-proofing and maintenance of valuable museum specimens of plants and photograph &amp; specimen cabinets in Herbarium and Computer room</td>
<td>5,000</td>
</tr>
</tbody>
</table>

**TOTAL** | 80,000 |

**GRAND TOTAL Wildlife (Biodiversity) Research (P)** | 1,75,630 |

### 2006-2007:

**Budget Head:** 2406-01-01-004-62-62-00-74 Wildlife (Biodiversity) Research (P)

#### I. ENBLOC WAGES

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WAGES:</strong> Continuation of monitoring activities in Tso Lhamo proposed cold desert protected area and Computerisation of data including regular office duties (en bloc 2 M/R wages at Gangtok and Tso Lhamo) <em>(Sanctioned vide no.02/GOS/FEWMD/Wages, dated: 12th April 2006)</em></td>
<td>95,630</td>
</tr>
</tbody>
</table>

#### II. OFFICE, LABORATORY AND FIELD RESEARCH

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Purchase and Maintenance of essential equipments like projectors, computer; computer accessories, toner cartridges, white-board marker pens, chemicals, print-outs of reports, color printouts and enlargements of wildlife photos, lamination, etc.</td>
<td>29,370</td>
</tr>
</tbody>
</table>

**GRAND TOTAL Wildlife (Biodiversity) Research (P)** | 1,25,000 |
### 2007-2008

**Budget Head: 2406-01-004-62-62-00-74 Wildlife (Biodiversity) Research (P)**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I. ENBLOC WAGES</strong></td>
<td></td>
</tr>
<tr>
<td>1 WAGES: Continuation of monitoring activities in Tso Lhamo proposed cold</td>
<td>95,892</td>
</tr>
<tr>
<td>desert protected area and Computerisation of data including regular office</td>
<td></td>
</tr>
<tr>
<td>duties (en bloc 2 M/R wages at Gangtok and Tso Lhamo)</td>
<td></td>
</tr>
<tr>
<td>(Sanctioned vide no.11/GOS/FEWMD/Wages, dated: 27th April 2007)</td>
<td></td>
</tr>
<tr>
<td><strong>II. OFFICE, LABORATORY AND FIELD RESEARCH</strong></td>
<td></td>
</tr>
<tr>
<td>2 Purchase and Maintenance of essential equipments like projectors,</td>
<td>29,108</td>
</tr>
<tr>
<td>computer; computer accessories, toner cartridges, white-board marker</td>
<td></td>
</tr>
<tr>
<td>pens, chemicals, print-outs of reports, color printouts and enlargements</td>
<td></td>
</tr>
<tr>
<td>of wildlife photos, lamination, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>GRAND TOTAL Wildlife (Biodiversity) Research (P)</strong></td>
<td>1,25,000</td>
</tr>
</tbody>
</table>

### 2008-2009

**Budget Head: 2406-01-004-62-62-00-74 Wildlife (Biodiversity) Research (P)**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I. ENBLOC WAGES</strong></td>
<td></td>
</tr>
<tr>
<td>1 WAGES: Continuation of monitoring activities in Tso Lhamo proposed cold</td>
<td>1,19,702</td>
</tr>
<tr>
<td>desert protected area and Computerisation of data including regular office</td>
<td></td>
</tr>
<tr>
<td>duties (en bloc 2 M/R wages at Gangtok and Tso Lhamo)</td>
<td></td>
</tr>
<tr>
<td>(Sanctioned vide no.17/GOS/FEWMD/Wages, dated: 7th May 2008)</td>
<td></td>
</tr>
<tr>
<td><strong>II. OFFICE, LABORATORY AND FIELD RESEARCH</strong></td>
<td></td>
</tr>
<tr>
<td>2 Purchase and Maintenance of essential equipments like projectors,</td>
<td>29,108</td>
</tr>
<tr>
<td>computer; computer accessories, toner cartridges, white-board marker</td>
<td></td>
</tr>
<tr>
<td>pens, chemicals, print-outs of reports, color printouts and enlargements</td>
<td></td>
</tr>
<tr>
<td>of wildlife photos, lamination, etc.</td>
<td></td>
</tr>
<tr>
<td><strong>GRAND TOTAL Wildlife (Biodiversity) Research (P)</strong></td>
<td>1,48,810</td>
</tr>
</tbody>
</table>

### 2009-2010

**Budget Head: 2406-01-004-62-62-00-74 Wildlife (Biodiversity) Research (P)**

**FINANCIAL TARGET:** Budget Head: 2406-01-004-62-62-00-74 Wildlife (Biodiversity) Research (P)

**ANNUAL WORK PROGRAMME**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>AMOUNT IN RS.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I. ENBLOC WAGES: PARTICULARS</strong></td>
<td></td>
</tr>
<tr>
<td>1 WAGES: Continuation of monitoring activities in Tso Lhamo proposed cold</td>
<td>120450</td>
</tr>
<tr>
<td>desert protected area and Computerisation of data including regular office</td>
<td></td>
</tr>
<tr>
<td>duties (en bloc 2 M/R wages at Gangtok and Tso Lhamo)</td>
<td></td>
</tr>
<tr>
<td>(Sanctioned vide no.05/GOS/FEWMD/Wages, dated: 13th Aug 2009)</td>
<td></td>
</tr>
<tr>
<td><strong>II. OFFICE, LABORATORY AND FIELD RESEARCH</strong></td>
<td></td>
</tr>
<tr>
<td>2 1. Purchase and Maintenance of essential equipments:</td>
<td>29,550</td>
</tr>
<tr>
<td>2. Expenditure related to Forest Centenary celebrations:</td>
<td></td>
</tr>
<tr>
<td><strong>GRAND TOTAL Wildlife (Biodiversity) Research (P)</strong></td>
<td>1,50000</td>
</tr>
<tr>
<td><strong>Grand Total:</strong> Rs. 1, 50, 000/- (RUPEES ONE LAKH FIFTY THOUSAND) only</td>
<td></td>
</tr>
</tbody>
</table>